



## NOTE BY THE EDITOR.

*Having revised and edited this, Mr. Courtney's second book written for the benefit of his fellow-workmen, I am able to state that he has judiciously followed up the lines laid down in his first book. His Rules and Tables, herein produced, will save many a troublesome calculation, and will at the same time form a reliable guide to the working Boilermaker.*

D. K. CLARK.

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# THE BOILERMAKER'S READY-RECKONER.

## PRACTICAL GEOMETRY.

*To bisect the given line A B.*—From the centres A and B with a radius greater than A E, half the distance, describe arcs cutting each other at C and D; draw a line through the intersections, then A B is bisected by the line C D.

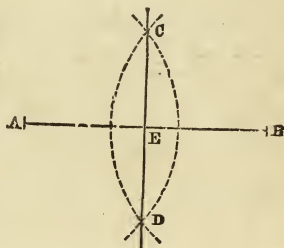


Fig. 1.

*To bisect the given line A B from a point without the line, as at C.*—With any radius greater than the distance to the line A B, describe arcs of a circle D E, cutting the line A B. Again, with any convenient radius, on D and E as centres, describe two arcs intersecting at F. Draw C F, which is at right angles to A B.

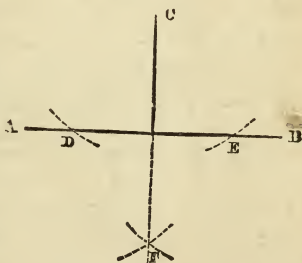


Fig. 2.

*To draw a line at right angles to the line A B from*

h

the point B at one end.—With any radius describe a semicircle that will pass through the point B, cutting AB in c; then draw a line from the intersection at c through the centre E of the semicircle, intersecting the circle at D. Draw DB, which is at right angles to AB.

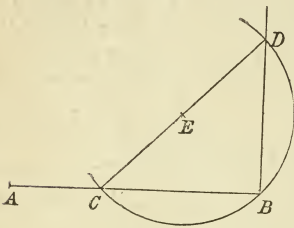


Fig. 3.

To draw a line at right angles to the line AB, from a point C nearly opposite one end.—

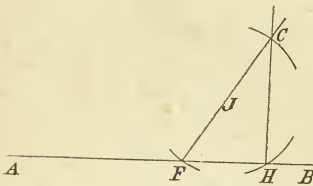


Fig. 4.

From C draw a line cutting AB at F, and bisect this line at J; then on J as centre with JF as radius, describe an arc cutting AB at H. Draw CH, which is at right

angles to AB.

To square out a plate.— Let the plate be represented by the thick outer line. Draw a line, AB

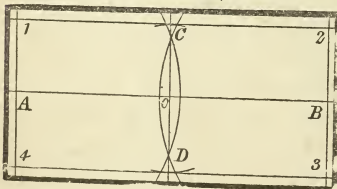


Fig. 5.

through the centre of the plate and bisect it by the line DC. On these centre lines mark out, on each side from the centre O, the

half-length and the half-breadth of the plate. Or, mark off the centre lines of rivet-holes if there are to be holes.

Set the trammels or compasses to half the breadth of the plate, and from A and B as centres describe arcs of circles at the corners 1, 2, 3, 4. Again, set the trammels to half the length of the plate, and from c and D as centres describe arcs cutting the other arcs at 1, 2, 3, 4. Join the intersections of these arcs; the plate should be square at all the corners. Mark the rivet-holes on these lines, and add a margin for lap. To prove if the draft be square, measure diagonally from corner to corner both ways.

*To square out a plate from one edge of it.*—Let

A B be the length of the edge of the plate. Draw a perpendicular at B C; and with the breadth of the plate as radius, on A B, as centres, describe arcs of circles at D and c.

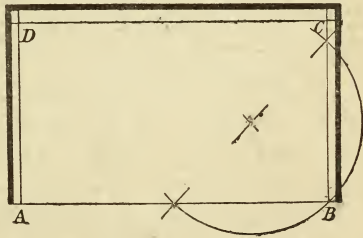


Fig. 6.

Again, with the length of the plate as radius, on B C, as centres, describe intersecting arcs at A and D. Draw A D and D C.

*To draw a quarter-circle corner of any given radius.*—Set the compasses to the given radius, and on o as centre describe arcs of circles at A

and B. With the same radius on A and B as centres, draw arcs intersecting at c. Then c is the centre from which to draw the quarter-circle with the given radius.

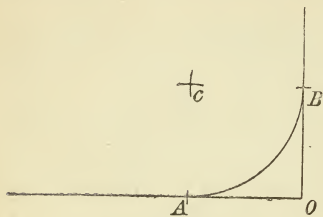


Fig. 7.

*To draw two diameters at right angles in a given ring.—*

Draw any chord A B, Fig. 8, and on A and B as centres, either at the edges of the ring, or midway between the two edges, describe arcs cutting at c and D, and draw the diameter E F through the intersections. On E and F as centres, describe arcs cutting at G and H, and draw the other diameter through the intersections. The diameters E F and G H are at right angles.

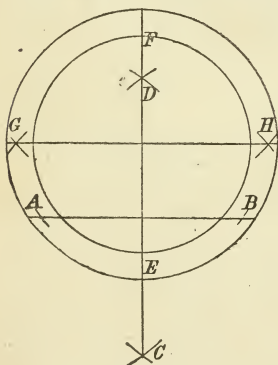


Fig. 8.

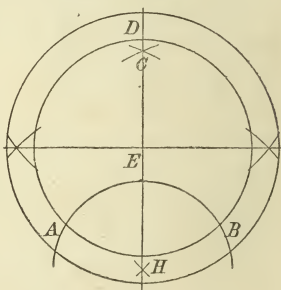


Fig. 9.

*To draw two diameters at right angles in a given*



ring from a given point.—On the given point  $H$ , Fig. 9, as centre, and with any convenient radius, describe the arc  $AB$ ; and on  $A$  and  $B$  as centres describe arcs cutting at  $c$ , and join  $c$  with the given point  $H$ , drawing the diameter  $DH$ . On  $D$  and  $H$  as centres, bisect  $DH$  at  $E$ , and draw the second diameter at right angles to the first.

To draw a circle through three given points, 1, 2, 3.—On 1 and 2 as centres, and with a radius greater than half the distance between 1 and 2, describe two arcs cutting at  $A$  and  $B$ . Bisect the distance between 2 and 3 in the

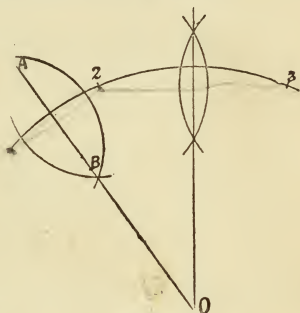


Fig. 10.

same way, and draw lines through the intersections of the arcs of circles, producing them till they meet at  $O$ . Then  $O$  is the centre of the circle that will pass through the three points 1, 2, 3.

To draw an ellipse when the length and breadth are given.—Draw the two diameters at right angles and mark the length and breadth on each side equally from the centre  $O$ , Fig. 11. Then mark off the distance  $OD$  from  $B$  to  $E$ , and, with radius  $OE$ , describe the quadrant  $EF$ . Draw the line  $EF$  and add the half of it from  $E$  to  $G$ . On  $O$  as centre, with  $OG$  as radius, describe the circle

G H J I. Then I and G are the centres for the radius of the small ends, and H and J are the

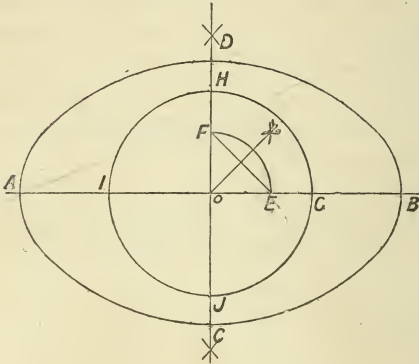


Fig. 11.

centres for the radius at c and at d.

*To draw an ellipse when the length only is given.*  
 —Mark the centre lines and divide the given

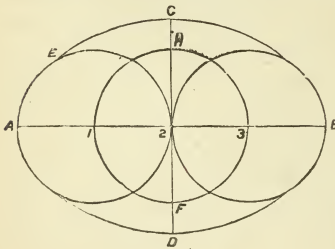


Fig. 12.

length AB into four equal parts, describing three circles as shown. On H and F as centres, with a radius that will just touch the first and third circles, describe the lateral arcs, and so complete the figure.

*To draw an ellipse by means of a string.*—Draw the centre lines at right angles and set off on

them the length  $A B$ , and breadth  $c D$ . With radius  $o A$  and centre  $D$  draw arcs cutting  $A B$  at  $H S$ , and fix pins at  $H S$ . Double a piece of string and tie it so that its length doubled will be equal to  $A H$ . Place the string round the pins; and, stretching it with a pencil or a drawpoint, draw the ellipse.

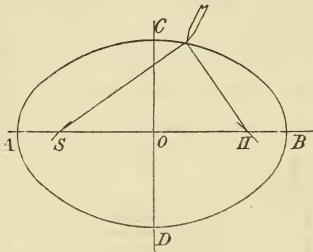


Fig. 13.

To find the side of a square having twice the area of a given square.—The diagonal  $A C$  of the given square  $A B C D$ , Fig. 14, equals the side of a square having twice the area.

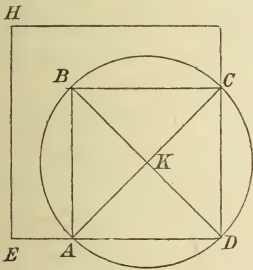


Fig. 14.

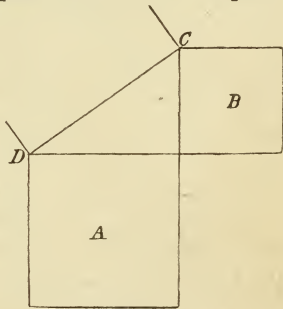


Fig. 15.

To draw a square half the area of a given square.—The side of the given square  $E H$ , Fig. 14, equals the diagonal of the required square  $A C$ . Bisect this diagonal at  $\kappa$ . On  $\kappa$  as centre, with  $\kappa A$  as radius, draw the circle  $A B C D$  and join the ex-

tremities of the diagonals. The square thus produced will have half the area of the given square.

*To draw a square equal in area to two given squares.*—Draw the given squares A and B, Fig. 15,

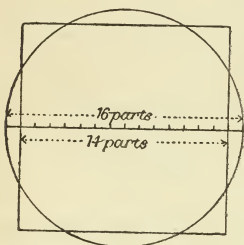


Fig. 16.

so that a side of one of them will be at right angles to a side of the other; and draw the line c d. Then c d is the side of a square equal in area to the sum of the areas of A and B.

*To draw a square equal in area to a given circle.*—

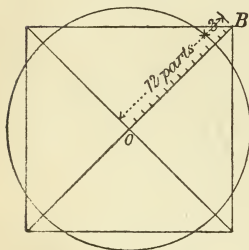


Fig. 17.

Divide the diameter of the given circle, Fig. 16, into 16 equal parts; 14 of these are equal to the side of a square of equal area.

*To draw a circle equal in area to a given square.*—

Draw the diagonals of the given square, and divide the half of one of them, o b, into 15 equal parts. On o as a centre, take in 12 of those parts as a radius, and describe a circle. The area of the circle is equal to that of the square.

*To draw a circle having half the area of a given circle.*—Draw two diameters in the circle, Fig. 18, at right angles and join their two extremities A and B. Bisect A B at F, and draw the line E F

perpendicular to  $AB$ . Then  $EF$  is the radius of a circle of half the area of the given circle.

*To draw a circle having twice the area of a given circle.*—Draw the diameters of the smaller circle, Fig. 18, and produce them to  $A$  and  $B$ . Bisect  $AB$  at  $F$  and draw the tangent  $AB$  at right angles to  $EF$ , touching the circle at  $F$ . Then  $EB$  is the radius of a circle having twice the area of the given circle.

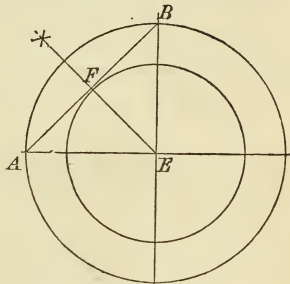


Fig. 18.

*To divide a circle into any number of concentric circles having equal areas*—Bisect the radius of the given circle  $OB$  at  $E$ . On  $E$  as centre, with  $EO$  as radius, describe the semicircle  $OAB$ . Divide  $OB$  into the required number of equal parts and draw perpendiculars to the semicircle. On  $O$  as a centre, with radii reaching to the intersections of the perpendiculars with the semicircle  $OAB$ , draw concentric circles. The annular spaces between the circles are of equal areas.

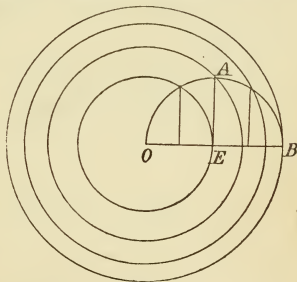


Fig. 19.

## TEMPLATING.

To draw a curve when the chord  $AB$  and the rise  $CD$  are given.—Join  $CA$  and  $CB$ , divide  $CA$  and  $CB$  into any number of equal parts, and on the centre  $C$  draw arcs of circles through the points of division 2, 3, 4, 5. Divide  $AH$  and  $BH$  into the

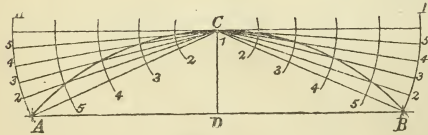


Fig. 20.

same number of equal parts as  $AC$  has been divided into; and

through the points of division draw straight lines to  $C$ . Trace the curve  $ACB$  through the successive intersections of the straight lines with the arcs of circles.

To mark out the plate for a bucket or any tapered article of sufficient taper to allow of the trammels being used—

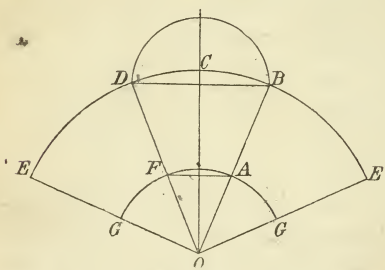


Fig. 21.

Draw the shape of the article—say, a bucket—and continue the lines that mark its sides,  $DF$  and  $BA$ , till they meet

at  $O$ . On  $O$  as a centre, with radii  $OA$  and  $OB$

respectively, draw circles, representing the curve or contour of the open plate. On the centre  $c$ , on each side round the curve towards  $E E$ , measure off  $c E$ ,  $c E$ , equal to half the circumference of the bucket, and draw the radii  $E O$ ,  $E O$ . The figure  $E C E G G$ , bounded by the curve and the radii, is the form of the plate required to construct the sides of the bucket.

*To mark out the contour of a plate for the tapered ring of a boiler without drawing the side lines to a point.*—Lay out the form of the required cone  $A B C D$ , Fig. 22. If the ring is in one plate, mark a cone on each side of it, thus:—On the centres  $A$  and  $B$ , with a radius equal to the diagonal  $A D$ , describe arcs of circles at  $H H$ ; and on centres  $C$  and  $D$  describe arcs at  $E E$ . Then, on  $A$  and  $B$  as centres, with  $A B$  as radius, describe arcs cutting the others at  $E E$ . Again, on  $C$  and  $D$  as centres, with  $C D$  as radius, describe arcs cutting the others at  $H H$ . Join the intersections with the central figure and the three four-sided figures will be similar, giving four points in the curve.

To find the rise at the centre at  $R$ , describe a circle about the middle of the height of the cone that will just touch the lines  $A C$  and  $R J$ ; and from the centre  $O$ , with radius  $O A$ , describe an arc at  $R$ . Then the intersection  $R$  will be the rise.

If the rise is wanted at a point between  $R$  and  $B$ , bisect the distances  $X B$  and  $J D$ , and draw the bisecting line  $K L$ . Draw a circle just touching the lines  $K L$  and  $B D$ , and from the centre  $N$ , with

the distances  $N B$  as radius, describe an arc cutting the line  $K L$  in  $L$ ; the point of intersection will be the rise there.

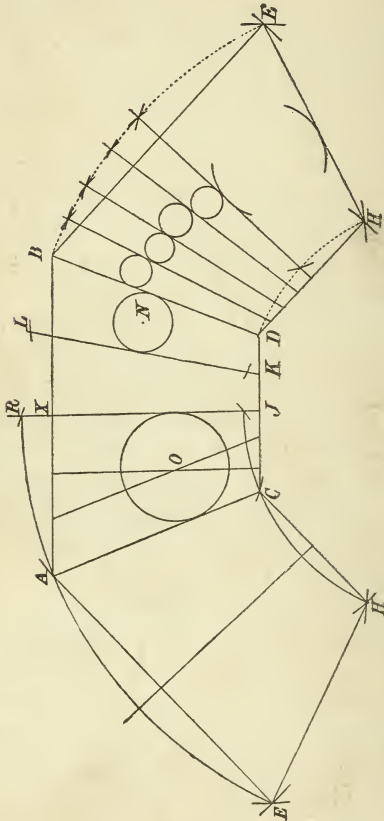


Fig. 22.

It will be seen that by dividing the cone, each



space will be a cone, and that the rise on each line can be found by getting the centre of the circle that touches the lines bounding each space. When the space is wide, as in finding the rise at R, and it is required to find the centre of a circle O, draw a line parallel to A C at a distance less than half A R. At the same distance draw a parallel to R J. The point of intersection will be the centre O. Draw the curve round a thin lath, or by hand if the points are close.

*To develop the plate for an elbow in a pipe.*—Mark out the shape of the required elbow and draw the line A B, Fig. 23, through the joint. At any convenient distance below B draw D C at right angles to the axis of the pipe. Draw the semicircle E F G, and divide it into any number of equal parts, drawing the lines 1, 2, 3, 4, &c., through the points of division. Next, lay out the circumference of the pipe, Fig. 24, and at a distance from one edge equal to the distance A D in Fig. 23, draw the parallel D C in Fig. 24. Divide D C into twice the number of equal parts that there are in the semicircle E F G, and draw the lines 2, 3, 4, &c., through the points of division parallel to the centre line A S. Now measure with the compasses the section of the line No. 8 in Fig. 23, comprised between the line D C and the joint line A B, and set it off from the line D C, Fig. 24, on the lines No. 8, one on each side of the centre line A S. Measure similarly for No. 7 line, and lay off the measurement on No. 7 lines, Fig. 24, from the

line D C. Do the same for the other lines in

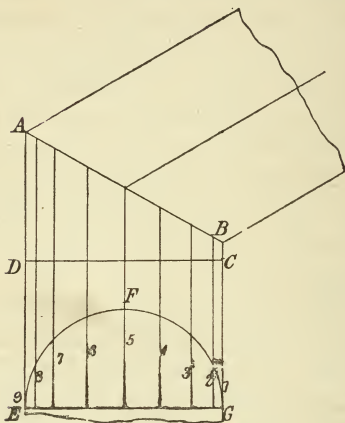


Fig. 23.

Fig. 23, and draw the curve through the ends of the lines set off.

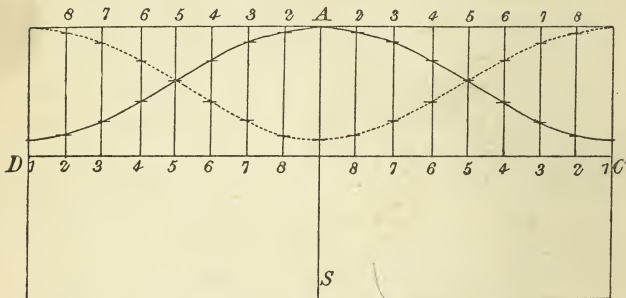


Fig. 24.

This shows the form of the curve when the seam along the side of the pipe is at A D E, Fig. 23.

The dotted line shows the form when the seam is at B G, and the figures 1, 2, 3, 4, &c., at the top of Fig. 24 correspond with those in Fig. 23.

The same lines mark the rake of a steamship funnel, the line A B being taken as the deck line. A multifold bend is drawn in the same way; and both edges of the plate are curved.

The same method is employed for the dome of a boiler, but the joint requires to be an arc of a circle of the radius of the boiler on which the dome is placed.

If the dome is elliptical, then, instead of the divided semicircle for a funnel or an elbow, an ellipse is required to be drawn and divided as before.

*To develop the plate for a dome to be placed on a boiler at an angle to the axis of the boiler.*—Draw the line A B, Fig. 23, representing the top of the boiler,

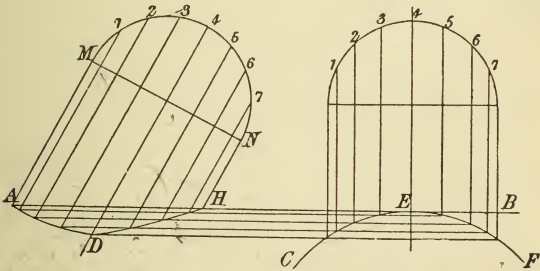


Fig. 25.

Fig. 26.

and the arc of a circle C E F, Fig. 26, representing the cross section of the boiler. On the line A B draw the side elevation of the dome at the required

angle; and on the cross section draw the end elevation. Draw semicircles at the top of the dome, with a radius equal to that of the dome, and divide into any even number of equal parts, draw

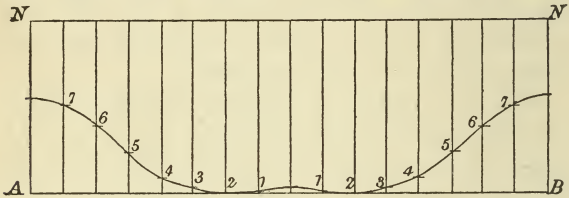


Fig. 27.

ing the lines 1, 2, 3, 4, &c., through the points of division parallel to the centre line of the dome. From the intersection of the lines 1, 2, 3, 4, &c., with the circle *C E F* on Fig. 26, draw lines parallel

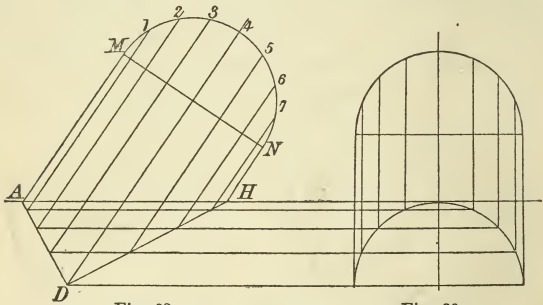


Fig. 28.

Fig. 29.

to *A B* until they intersect with the lines 1, 2, 3, 4, &c., in Fig. 25, and draw the curve *A D H* through the intersections. Now, square out the plate *A B*, Fig. 27, for the circumference, and divide into twice the number of equal parts that are in

one of the semicircles, Fig. 26, drawing the lines 1, 2, 3, 4, &c., through the points of division. Draw the line  $N N$ , Fig. 27, at a distance from  $A B$  equal to the length of the longest line in Fig. 25, between  $M N$  and  $A D H$ . (In this case it is No. 2 line.) If the seam is to be at  $N H$ , Fig. 25, set off the length  $N H$  on the ends  $N A$ ,  $N B$ , of Fig. 27. Set off similarly the lengths of lines, 7, 6, 5, &c., between the line  $M N$  and the curve  $A D H$  on the corresponding divisions of the surface, Fig. 27; and trace the curve through the ends of the lines thus set off.

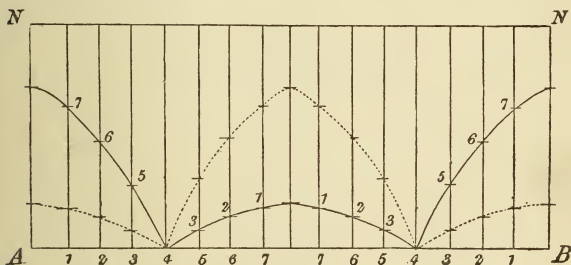


Fig. 30.

If the two cylinders be of equal diameter, as in Figs. 28, 29, the form of the curve is shown in Fig. 30, when the seam is at  $H N$ , in Fig. 28. The form follows the dotted line, Fig. 30, if the seam is at  $A M$ , Fig. 28. The drawing is the same in both cases, but, in consequence of the diameters being equal,  $A D H$  will consist of straight lines, in Fig. 28, instead of the curve,  $A D H$ , in Fig. 25. The

bottom row of figures in Fig. 30 shows where the dotted line was got from in Fig. 28.

To develop an oblong cone of which  $A B C D$  is the side elevation and  $P$  the plan.—Draw the elevation  $A B C D$ , and add sufficient from  $C$  to  $E$  and  $B$  to  $E$  to make  $E E$  equal to half the circumference of the

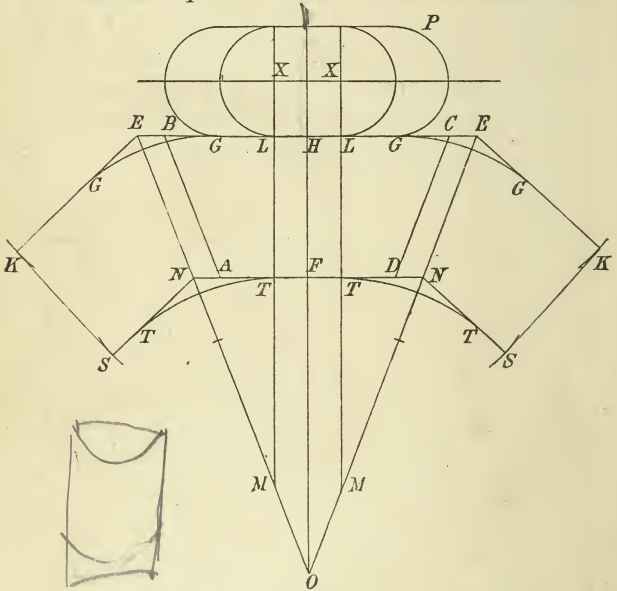


Fig. 31

cone in plan. Draw  $E O$ ,  $E O$ , parallel to the sides of the cone  $A B$  and  $C D$ . On  $O$  as centre, with  $O F$  and  $O H$  as radius, describe arcs of circles at  $K K$  and  $S S$ . On  $E E$  as centres, with  $E H$  as radius, describe arcs cutting the others at  $K K$ ; and on

$N N$  as centres, with  $N F$  as radius, describe arcs cutting the others at  $s s$ . Draw  $s N$  and  $K E$ , also  $K s$ . Then  $K s$  is the joint in the circumference in plan. Draw  $L M$  and  $L M$  parallel to the centre line  $O H$ , at a distance between  $L$  and  $L$  equal to the distance between the centres of the end radii  $x x$  in the plan  $P$ . On  $M$  and  $M$  as centres, with radius  $M T$ , draw the arcs  $T T$ . With the same radius, centred on the lines  $O E$ , draw the corners  $G G$  and  $G G$ .  $N E$  is the centre from which to roll the semicircles in the plan.

The flat sides can be rolled so that the plan will be an ellipse without altering anything but

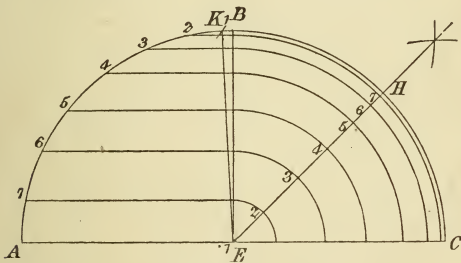


Fig. 32.

the extra length that would be required. The same drawing would make it with quarter-circle corners. But in that case there would be a flat place on the centre lines  $N E$ , equal to the breadth of flat between the corners.

*To develop the plates of an egg-end.*—Draw the semicircle  $A B C$ , Fig. 32, representing half of the end. Divide  $A B$  into any number of equal

parts and draw the lines 2, 3, 4, &c., parallel to the base  $A C$ . On  $E$  as a centre, with radii of the successive terminations of the parallel lines in the vertical  $E B$ , draw the quarter circles 2, 3, 4, &c., and bisect the angle  $B E C$  at  $H$ , and draw  $E H$ . Find the length of the quarter circle  $C B$ , and mark the half of it direct from  $H$  to  $K$ , and draw  $K E$ . If the end is to be in four plates, draw the straight line  $A B$ , Fig. 32, equal in length to a quarter of the circumference, and divide it into the same number of equal parts as  $A B$  in Fig. 31.

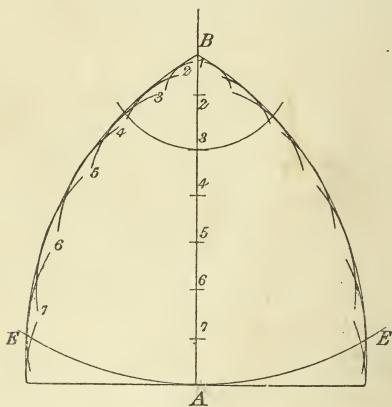


Fig. 33.

From the line  $E H$ , Fig. 32, measure the arcs of circles straight across to  $K$ , and transfer them to Fig. 33 from the points of division on  $A B$ , drawing the arcs of circles intersecting in 2, 3, 4, &c. Draw the curve of the side over the tops



of these arcs of circles. Measure a quarter of the circumference round the side from B to E and draw the curve E A E. The curves E E and E B, Fig. 33, are each equal to a quarter of the circumference; also the straight line A B.

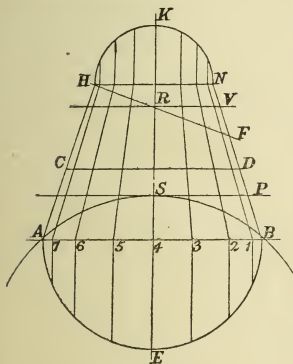


Fig. 34.

*To develop a truncated cone to be placed on a cylinder.*—Mark the shape of the cone, Fig. 34, and draw the plane of cut off H F, also the section of cylinder A S B. Draw the semicircles A E B and H K N and divide them into the same number of equal parts. Draw the lines 1, 2, 3, 4, &c., parallel to the centre

line E K until they meet the diameters A B and H N, then join the extremities of these lines between A B and H N. Draw a line C D parallel to A B. Next, develop the circumference of the cone B A B and N H N, Fig. 35, and divide both edges into twice the number of equal parts that are in the semicircles, Fig. 34, and draw the lines 1, 2, 3, 4, &c. Draw the circular curve D C D at the distance B D in Fig. 34. If the seam is to be at B F in Fig. 34, measure No. 1 line, Fig. 34, between the line C D and the circle A S B, and set off the length from the arc D C D, Fig. 35, towards the lower development B A B on the line 1 at each side of the centre line A H.

Measure No. 2 line, Fig. 34, in the same way, and set it off correspondingly in Fig. 35. To lay out the other edge of the cone,  $NHN$ , measure No. 1 line, Fig. 34, between the line  $cD$  and the cut-off line  $HF$ , and set off its distance from the arc  $DCD$ , on the lines 1, 1, towards the upper edge of Fig. 35, in the same manner as for the lower side. Measure and set off the rest of the lines in the same way, and transfer them to Fig. 35, on the

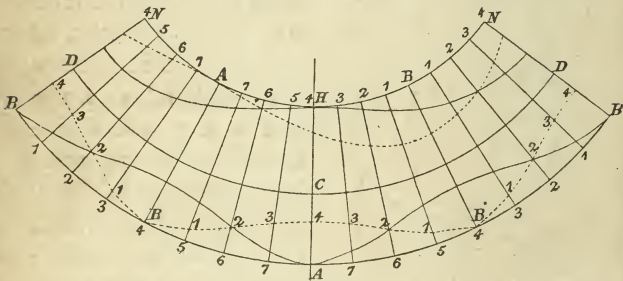


Fig. 35.

lines correspondingly numbered. Trace curves through the points thus found. When the seam is to be in the line  $sR$ , Fig. 34, the dotted lines, Fig. 35, show the form of the corresponding curves. The numbers on the top of Fig. 35 show where the measurements were taken from in Fig. 34. The numbers on the lower dotted curve show where they were taken from in Fig. 34.

From the fact of No. 4 line, Fig. 34, being fore-shortened, so that the actual slant height is not shown, it is necessary to get the slant height, and keep the plate, Fig. 35, up to the length of No. 4

line, by adding to it sufficient on each curved edge, and running out to nothing at  $A H$  and  $F B$  in Fig. 34. The slant height may be got by drawing the parallels  $s P$  and  $r v$ , and measuring the length  $P v$ .

To develop the oblique tapered connection,  $A B C D$ , between cylinders  $E$  and  $F$  in Fig. 36.—Lay down

$E$  and  $F$  at the required distance from each other, and draw the lines  $A B$ ,  $C D$ , forming the connection. Continue  $A B$  to  $H$  and  $C D$  to  $K$ . Join  $A K$  and  $H C$ , and draw the semicircles  $H J C$  and  $A K S$ . Divide each of them into the same number of equal parts, and through the points of division draw the lines 1, 2, 3, 4, &c., parallel to the

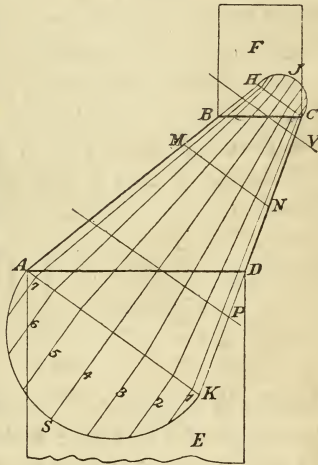


Fig. 36.

centre line  $s J$ , till they meet the diameters  $A K$  and  $H C$ . Then join the extremities from  $A K$  to  $H C$ . Draw  $M N$  at right angles to the centre line  $s J$ . Now develop the circumference of the cone, Fig. 37, and draw the curve  $M N$  at the distance  $A M$ , equal to  $A M$  in Fig. 36, and divide the circumference into twice the number of equal parts that are in the semi-

circle in Fig. 36, drawing the lines 1, 2, 3, 4, &c., through the points of division. If the seam is to be at  $c d$ , Fig. 36, measure No. 1 line from the line  $m n$  to where it meets  $a d$ , and from the curve  $m n$ , Fig. 37, mark the length found on No. 1 line on each side of the centre on the bottom edge. Measure No. 2 line, Fig. 36, in the same way, and

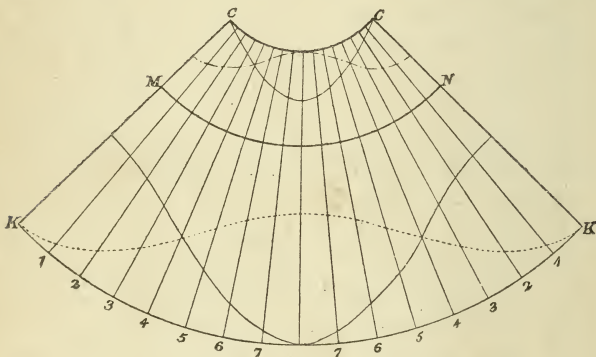


Fig. 37.

transfer the length to No. 2 line in Fig. 37. For the curve of the upper end, measure No. 1 line between  $m n$  and  $b c$ , and set off the distance on No. 1 line, Fig. 37, from the curve  $m n$ . Measure the rest in the same way, and trace the curve through the points. The dotted line shows the form of the curve when the seam is at  $a b$ , Fig. 36.

In this as in the previous construction, foreshortening is to be compensated for, and in the same way as was explained for the other—working from the parallels  $v$  and  $p$  in Fig. 36.

TABLE No. 1.  
DECIMALS OF AN INCH.

TO CONVERT A COMMON FRACTION INTO A  
DECIMAL FRACTION.

Add ciphers at the right-hand side of the numerator or upper number, after a decimal point, and divide by the denominator or lower number.

TABLE NO. 1.—DECIMALS OF AN INCH.

Inch.	Decimal.	Inch.	Decimal.
$\frac{1}{64}$	·015625	$\frac{1}{2}$	·5
$\frac{1}{32}$	·03125	$\frac{9}{16}$	·5625
$\frac{1}{16}$	·0625	$\frac{5}{8}$	·625
$\frac{1}{8}$	·125	$\frac{11}{16}$	·6875
$\frac{3}{16}$	·1875	$\frac{3}{4}$	·75
$\frac{1}{4}$	·25	$\frac{13}{16}$	·8125
$\frac{5}{16}$	·3125	$\frac{7}{8}$	·875
$\frac{3}{8}$	·375	$\frac{15}{16}$	·9375
$\frac{7}{16}$	·4375	1"	1·00

TABLE No. 2.

DIAMETERS, SQUARES, AND CIRCULAR  
AREAS.

TABLE NO. 2.—DIAMETERS, SQUARES, AND CIRCULAR AREAS.

The values are expressed in decimals, and can be taken either as feet or as inches. The table will be found useful for finding the contents of tanks, or in making round tanks and square tanks of equal capacity.

Diameter of Circle.	Square.	Area.	Side of Square = to Circle.	Diameter of Circle.	Square.	Area.	Side of Square = to Circle.
1	1	·7854	·8862	37	1369	1075·21	32·789
2	4	3·1416	1·772	38	1444	1134·11	33·675
3	9	7·068	2·658	39	1521	1194·59	34·561
4	16	12·566	3·544	40	1600	1256·64	35·448
5	25	19·635	4·431	41	1681	1320·25	36·334
6	36	28·274	5·317	42	1764	1385·44	37·220
7	49	38·484	6·203	43	1849	1452·20	38·106
8	64	50·265	7·089	44	1936	1520·53	38·992
9	81	63·617	7·976	45	2025	1590·43	39·879
10	100	78·540	8·862	46	2116	1661·90	40·765
11	121	95·033	9·748	47	2209	1734·94	41·651
12	144	113·097	10·634	48	2304	1809·56	42·537
13	169	132·732	11·520	49	2401	1885·74	43·423
14	196	153·938	12·406	50	2500	1963·50	44·310
15	225	176·715	13·293	51	2601	2042·82	45·196
16	256	201·062	14·179	52	2704	2123·72	46·082
17	289	226·980	15·065	53	2809	2206·18	46·968
18	324	254·469	15·951	54	2916	2290·22	47·854
19	361	283·529	16·837	55	3025	2375·83	48·741
20	400	314·160	17·724	56	3136	2463·01	49·627
21	441	346·361	18·610	57	3249	2551·76	50·513
22	484	380·133	19·496	58	3364	2642·08	51·399
23	529	415·476	20·382	59	3481	2733·97	52·285
24	576	452·390	21·268	60	3600	2827·44	53·172
25	625	490·875	22·155	61	3721	2922·47	54·048
26	676	530·930	23·041	62	3844	3019·07	54·944
27	729	572·556	23·927	63	3969	3117·25	55·830
28	784	615·753	24·813	64	4096	3216·99	56·716
29	841	660·521	25·699	65	4225	3318·31	57·603
30	900	706·860	26·586	66	4356	3421·20	58·489
31	961	754·769	27·472	67	4489	3525·66	59·375
32	1024	804·249	28·358	68	4624	3631·68	60·261
33	1089	855·300	29·244	69	4761	3739·28	61·147
34	1156	907·922	30·130	70	4900	3848·46	62·034
35	1225	962·115	31·017	71	5041	3959·20	62·920
36	1296	1017·87	31·903	72	5184	4071·51	63·806



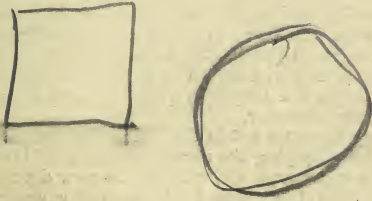


TABLE No. 3.

DIAMETERS AND CIRCUMFERENCES OF  
PLATE-IRON CYLINDERS,

FROM 1 INCH TO 13 FEET IN DIAMETER.

17  
144

*Very accurate*

TABLE No. 3.—DIAMETERS AND CIRCUMFERENCES OF PLATE-IRON CYLINDERS, FROM 1 INCH TO 13 FEET IN DIAMETER.

RULE.—To the inside diameter add the thickness of the plate for the mean diameter; or, from the outside diameter subtract the thickness. Opposite the mean diameter in the Table will be found the required length or mean circumference, for a butt joint: that is, the length of plate required to form a cylinder of the given diameter.

For any diameter not in the Table the circumference can be found by multiplying the new diameter by 3·1416: the product is the circumference. Or, multiply the new diameter by  $3\frac{1}{4}$ , and subtract from the product  $\frac{1}{64}$  inch for every foot in the diameter. The remainder will be the circumference. If there is an odd  $\frac{1}{16}$  inch in the diameter, the circumference for which is wanted, add together the tabular circumferences of the two diameters that are nearest to it, and divide the sum by 2. The quotient is the circumference required.

The mean diameter corresponding to a given circumference is found by dividing the tabular circumference by 3·1416.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
0	1	0	$3\frac{1}{8}$	0	3	0	$9\frac{3}{8}$	0	5	1	$3\frac{5}{8}-\frac{1}{16}$
0	$1\frac{1}{8}$	0	$3\frac{1}{2}$	0	$3\frac{1}{8}$	0	$9\frac{3}{4}-\frac{1}{16}$	0	$5\frac{1}{8}$	1	$4\frac{1}{8}$
0	$1\frac{1}{4}$	0	$3\frac{7}{8}$	0	$3\frac{1}{4}$	0	$10\frac{1}{8}-\frac{1}{16}$	0	$5\frac{1}{4}$	1	$4\frac{1}{2}$
0	$1\frac{3}{8}$	0	$4\frac{1}{4}$	0	$3\frac{3}{8}$	0	$10\frac{5}{8}$	0	$5\frac{3}{8}$	1	$4\frac{7}{8}$
0	$1\frac{1}{2}$	0	$4\frac{5}{8}-\frac{1}{16}$	0	$3\frac{1}{2}$	0	11	0	$5\frac{1}{2}$	1	$5\frac{1}{4}$
0	$1\frac{5}{8}$	0	$5\frac{1}{16}$	0	$3\frac{5}{8}$	0	$11\frac{3}{8}$	0	$5\frac{5}{8}$	1	$5\frac{5}{8}$
0	$1\frac{3}{4}$	0	$5\frac{1}{2}$	0	$3\frac{3}{4}$	0	$11\frac{3}{4}$	0	$5\frac{3}{4}$	1	$6\frac{1}{16}$
0	$1\frac{7}{8}$	0	$5\frac{7}{8}$	0	$3\frac{7}{8}$	1	$0\frac{1}{8}$	0	$5\frac{7}{8}$	1	$6\frac{3}{8}-\frac{1}{16}$
0	2	0	$6\frac{1}{4}$	0	4	1	$0\frac{1}{2}-\frac{1}{16}$	0	6	1	$6\frac{7}{8}$
0	$2\frac{1}{8}$	0	$6\frac{3}{8}$	0	$4\frac{1}{8}$	1	$0\frac{7}{8}-\frac{1}{16}$	0	$6\frac{1}{8}$	1	$7\frac{1}{4}$
0	$2\frac{1}{4}$	0	7	0	$4\frac{1}{4}$	1	$1\frac{3}{8}$	0	$6\frac{1}{4}$	1	$7\frac{5}{8}$
0	$2\frac{3}{8}$	0	$7\frac{3}{8}-\frac{1}{16}$	0	$4\frac{3}{8}$	1	$1\frac{3}{4}$	0	$6\frac{3}{8}$	1	8
0	$2\frac{1}{2}$	0	$7\frac{7}{8}$	0	$4\frac{1}{2}$	1	$2\frac{1}{8}$	0	$6\frac{1}{2}$	1	$8\frac{3}{8}$
0	$2\frac{5}{8}$	0	$8\frac{1}{4}$	0	$4\frac{5}{8}$	1	$2\frac{1}{2}$	0	$6\frac{5}{8}$	1	$8\frac{3}{4}-\frac{1}{16}$
0	$2\frac{3}{4}$	0	$8\frac{5}{8}$	0	$4\frac{3}{4}$	1	$2\frac{7}{8}$	0	$6\frac{3}{4}$	1	$9\frac{1}{8}-\frac{1}{16}$
0	$2\frac{7}{8}$	0	9	0	$4\frac{7}{8}$	1	$3\frac{1}{4}-\frac{1}{16}$	0	$6\frac{7}{8}$	1	$9\frac{5}{8}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
0	7	1	10	0	11 $\frac{3}{8}$	2	11 $\frac{3}{4}$	1	3 $\frac{3}{4}$	4	1 $\frac{1}{2}$
0	7 $\frac{1}{8}$	1	10 $\frac{3}{8}$	0	11 $\frac{1}{2}$	3	0 $\frac{1}{16}$	1	3 $\frac{7}{8}$	4	1 $\frac{7}{8}$
0	7 $\frac{1}{4}$	1	10 $\frac{3}{4}$	0	11 $\frac{5}{8}$	3	0 $\frac{1}{2}$	1	4	4	2 $\frac{1}{4}$
0	7 $\frac{3}{8}$	1	11 $\frac{1}{8}$	0	11 $\frac{3}{4}$	3	0 $\frac{7}{8}$	1	4 $\frac{1}{8}$	4	2 $\frac{5}{8}$
0	7 $\frac{1}{2}$	1	11 $\frac{1}{2}$ - $\frac{1}{16}$	0	11 $\frac{7}{8}$	3	1 $\frac{1}{4}$ - $\frac{1}{16}$	1	4 $\frac{1}{4}$	4	3 $\frac{1}{16}$
0	7 $\frac{5}{8}$	1	11 $\frac{7}{8}$ - $\frac{1}{16}$	1	0	3	1 $\frac{5}{8}$ - $\frac{1}{16}$	1	4 $\frac{3}{8}$	4	3 $\frac{3}{8}$ - $\frac{1}{16}$
0	7 $\frac{3}{4}$	2	0 $\frac{3}{8}$	1	0 $\frac{1}{8}$	3	2 $\frac{1}{16}$	1	4 $\frac{1}{2}$	4	3 $\frac{3}{4}$ - $\frac{1}{16}$
0	7 $\frac{7}{8}$	2	0 $\frac{3}{4}$	1	0 $\frac{1}{4}$	3	2 $\frac{1}{2}$	1	4 $\frac{5}{8}$	4	4 $\frac{1}{4}$
0	8	2	1 $\frac{1}{8}$	1	0 $\frac{3}{8}$	3	2 $\frac{7}{8}$	1	4 $\frac{3}{4}$	4	4 $\frac{5}{8}$
0	8 $\frac{1}{8}$	2	1 $\frac{1}{2}$	1	0 $\frac{1}{2}$	3	3 $\frac{1}{4}$	1	4 $\frac{7}{8}$	4	5
0	8 $\frac{1}{4}$	2	1 $\frac{7}{8}$	1	0 $\frac{5}{8}$	3	3 $\frac{3}{8}$	1	5	4	5 $\frac{3}{8}$
0	8 $\frac{3}{8}$	2	2 $\frac{1}{4}$ - $\frac{1}{16}$	1	0 $\frac{3}{4}$	3	4 $\frac{1}{16}$	1	5 $\frac{1}{8}$	4	5 $\frac{3}{4}$ - $\frac{1}{16}$
0	8 $\frac{1}{2}$	2	2 $\frac{5}{8}$ - $\frac{1}{16}$	1	0 $\frac{7}{8}$	3	4 $\frac{3}{8}$ - $\frac{1}{16}$	1	5 $\frac{1}{4}$	4	6 $\frac{1}{8}$ - $\frac{1}{16}$
0	8 $\frac{5}{8}$	2	3 $\frac{1}{8}$	1	1	3	4 $\frac{3}{4}$ - $\frac{1}{16}$	1	5 $\frac{3}{8}$	4	6 $\frac{1}{2}$ - $\frac{1}{16}$
0	8 $\frac{3}{4}$	2	3 $\frac{1}{2}$	1	1 $\frac{1}{8}$	3	5 $\frac{1}{4}$	1	5 $\frac{1}{2}$	4	7
0	8 $\frac{7}{8}$	2	3 $\frac{7}{8}$	1	1 $\frac{1}{4}$	3	5 $\frac{5}{8}$	1	5 $\frac{5}{8}$	4	7 $\frac{3}{8}$
0	9	2	4 $\frac{1}{4}$	1	1 $\frac{3}{8}$	3	6	1	5 $\frac{3}{4}$	4	7 $\frac{3}{4}$
0	9 $\frac{1}{8}$	2	4 $\frac{5}{8}$	1	1 $\frac{1}{2}$	3	6 $\frac{3}{8}$	1	5 $\frac{7}{8}$	4	8 $\frac{1}{8}$
0	9 $\frac{1}{4}$	2	5 $\frac{1}{16}$	1	1 $\frac{5}{8}$	3	6 $\frac{3}{4}$ - $\frac{1}{16}$	1	6	4	8 $\frac{1}{2}$
0	9 $\frac{3}{8}$	2	5 $\frac{3}{8}$ - $\frac{1}{16}$	1	1 $\frac{3}{4}$	3	7 $\frac{1}{8}$ - $\frac{1}{16}$	1	6 $\frac{1}{8}$	4	8 $\frac{7}{8}$ - $\frac{1}{16}$
0	9 $\frac{1}{2}$	2	5 $\frac{3}{4}$ - $\frac{1}{16}$	1	1 $\frac{7}{8}$	3	7 $\frac{1}{2}$ - $\frac{1}{16}$	1	6 $\frac{1}{4}$	4	9 $\frac{1}{4}$ - $\frac{1}{16}$
0	9 $\frac{5}{8}$	2	6 $\frac{1}{4}$	1	2	3	8	1	6 $\frac{3}{8}$	4	9 $\frac{5}{8}$ - $\frac{1}{16}$
0	9 $\frac{3}{4}$	2	6 $\frac{5}{8}$	1	2 $\frac{1}{8}$	3	8 $\frac{3}{8}$	1	6 $\frac{1}{2}$	4	10 $\frac{1}{8}$
0	9 $\frac{7}{8}$	2	7	1	2 $\frac{1}{4}$	3	8 $\frac{3}{4}$	1	6 $\frac{5}{8}$	4	10 $\frac{1}{2}$
0	10	2	7 $\frac{3}{8}$	1	2 $\frac{3}{8}$	3	9 $\frac{1}{8}$	1	6 $\frac{3}{4}$	4	10 $\frac{7}{8}$
0	10 $\frac{1}{8}$	2	7 $\frac{3}{4}$ - $\frac{1}{16}$	1	2 $\frac{1}{2}$	3	9 $\frac{1}{2}$ - $\frac{1}{16}$	1	6 $\frac{7}{8}$	4	11 $\frac{1}{4}$
0	10 $\frac{1}{4}$	2	8 $\frac{1}{8}$ - $\frac{1}{16}$	1	2 $\frac{5}{8}$	3	9 $\frac{7}{8}$ - $\frac{1}{16}$	1	7	4	11 $\frac{5}{8}$ - $\frac{1}{16}$
0	10 $\frac{3}{8}$	2	8 $\frac{5}{8}$	1	2 $\frac{3}{4}$	3	10 $\frac{1}{4}$ - $\frac{1}{16}$	1	7 $\frac{1}{8}$	5	0 $\frac{1}{16}$
0	10 $\frac{1}{2}$	2	9	1	2 $\frac{7}{8}$	3	10 $\frac{5}{8}$ - $\frac{1}{16}$	1	7 $\frac{1}{4}$	5	0 $\frac{3}{8}$ - $\frac{1}{16}$
0	10 $\frac{3}{4}$	2	9 $\frac{3}{8}$	1	3	3	11 $\frac{1}{8}$	1	7 $\frac{3}{8}$	5	0 $\frac{3}{4}$ - $\frac{1}{16}$
0	10 $\frac{5}{8}$	2	9 $\frac{3}{4}$	1	3 $\frac{1}{8}$	3	11 $\frac{1}{2}$	1	7 $\frac{1}{2}$	5	1 $\frac{1}{4}$
0	10 $\frac{7}{8}$	2	10 $\frac{1}{8}$	1	3 $\frac{1}{4}$	3	11 $\frac{7}{8}$	1	7 $\frac{5}{8}$	5	1 $\frac{5}{8}$
0	11	2	10 $\frac{1}{2}$ - $\frac{1}{16}$	1	3 $\frac{3}{8}$	4	0 $\frac{1}{4}$	1	7 $\frac{3}{4}$	5	2
0	11 $\frac{1}{8}$	2	10 $\frac{7}{8}$ - $\frac{1}{16}$	1	3 $\frac{1}{2}$	4	0 $\frac{5}{8}$ - $\frac{1}{16}$	1	7 $\frac{7}{8}$	5	2 $\frac{3}{8}$ - $\frac{1}{16}$
0	11 $\frac{1}{4}$	2	11 $\frac{3}{8}$	1	3 $\frac{5}{8}$	4	1 $\frac{1}{16}$	1	8	5	2 $\frac{3}{4}$ - $\frac{1}{16}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$8\frac{1}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	2	$0\frac{1}{2}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$4\frac{7}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$
1	$8\frac{1}{4}$	5	$3\frac{1}{2}-\frac{1}{16}$	2	$0\frac{5}{8}$	6	$5\frac{3}{8}$	2	5	7	$7\frac{1}{16}$
1	$8\frac{3}{8}$	5	4	2	$0\frac{3}{4}$	6	$5\frac{3}{4}$	2	$5\frac{1}{8}$	7	$7\frac{1}{2}$
1	$8\frac{1}{2}$	5	$4\frac{3}{8}$	2	$0\frac{7}{8}$	6	$6\frac{1}{8}$	2	$5\frac{1}{4}$	7	$7\frac{7}{8}$
1	$8\frac{5}{8}$	5	$4\frac{3}{4}$	2	1	6	$6\frac{1}{2}$	2	$5\frac{3}{8}$	7	$8\frac{1}{4}$
1	$8\frac{3}{4}$	5	$5\frac{1}{8}-\frac{1}{16}$	2	$1\frac{1}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	$5\frac{1}{2}$	7	$8\frac{5}{8}$
1	$8\frac{7}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	$1\frac{1}{4}$	6	$7\frac{1}{4}-\frac{1}{16}$	2	$5\frac{5}{8}$	7	$9\frac{1}{16}$
1	9	5	6	2	$1\frac{3}{8}$	6	$7\frac{3}{4}$	2	$5\frac{3}{4}$	7	$9\frac{3}{8}-\frac{1}{16}$
1	$9\frac{1}{8}$	5	$6\frac{3}{8}$	2	$1\frac{1}{2}$	6	$8\frac{1}{8}$	2	$5\frac{7}{8}$	7	$9\frac{7}{8}$
1	$9\frac{1}{4}$	5	$6\frac{3}{4}$	2	$1\frac{5}{8}$	6	$8\frac{1}{2}$	2	6	7	$10\frac{1}{4}$
1	$9\frac{3}{8}$	5	$7\frac{1}{8}$	2	$1\frac{3}{4}$	6	$8\frac{7}{8}$	2	$6\frac{1}{8}$	7	$10\frac{5}{8}$
1	$9\frac{1}{2}$	5	$7\frac{1}{2}$	2	$1\frac{7}{8}$	6	$9\frac{1}{4}$	2	$6\frac{1}{4}$	7	11
1	$9\frac{5}{8}$	5	$7\frac{7}{8}$	2	2	6	$9\frac{5}{8}-\frac{1}{16}$	2	$6\frac{3}{8}$	7	$11\frac{3}{8}$
1	$9\frac{3}{4}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$2\frac{1}{8}$	6	$10\frac{1}{16}$	2	$6\frac{1}{2}$	7	$11\frac{3}{4}-\frac{1}{16}$
1	$9\frac{7}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$2\frac{1}{4}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	$6\frac{5}{8}$	8	$0\frac{1}{8}-\frac{1}{16}$
1	10	5	$9\frac{1}{8}$	2	$2\frac{3}{8}$	6	$10\frac{7}{8}$	2	$6\frac{3}{4}$	8	$0\frac{3}{8}$
1	$10\frac{1}{8}$	5	$9\frac{1}{2}$	2	$2\frac{1}{2}$	6	$11\frac{1}{4}$	2	$6\frac{7}{8}$	8	1
1	$10\frac{1}{4}$	5	$9\frac{7}{8}$	2	$2\frac{5}{8}$	6	$11\frac{5}{8}$	2	7	8	$1\frac{3}{8}$
1	$10\frac{3}{8}$	5	$10\frac{1}{4}$	2	$2\frac{3}{4}$	7	0	2	$7\frac{1}{8}$	8	$1\frac{3}{4}-\frac{1}{16}$
1	$10\frac{1}{2}$	5	$10\frac{5}{8}$	2	$2\frac{7}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$7\frac{1}{4}$	8	$2\frac{1}{8}-\frac{1}{16}$
1	$10\frac{3}{4}$	5	$11\frac{1}{16}$	2	3	7	$0\frac{3}{4}-\frac{1}{16}$	2	$7\frac{3}{8}$	8	$2\frac{1}{2}-\frac{1}{16}$
1	$10\frac{7}{8}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$3\frac{1}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	$7\frac{1}{2}$	8	3
1	11	6	$0\frac{1}{4}$	2	$3\frac{1}{4}$	7	$1\frac{5}{8}$	2	$7\frac{5}{8}$	8	$3\frac{3}{8}$
1	$11\frac{1}{8}$	6	$0\frac{5}{8}$	2	$3\frac{3}{8}$	7	2	2	$7\frac{3}{4}$	8	$3\frac{3}{4}$
1	$11\frac{1}{4}$	6	1	2	$3\frac{1}{2}$	7	$2\frac{3}{8}$	2	$7\frac{7}{8}$	8	$4\frac{1}{8}$
1	$11\frac{3}{8}$	6	$1\frac{3}{8}$	2	$3\frac{5}{8}$	7	$2\frac{3}{4}$	2	8	8	$4\frac{1}{2}$
1	$11\frac{1}{2}$	6	$1\frac{3}{4}$	2	$3\frac{3}{4}$	7	$3\frac{1}{8}$	2	$8\frac{1}{8}$	8	$4\frac{7}{8}$
1	$11\frac{5}{8}$	6	$1\frac{7}{8}-\frac{1}{16}$	2	$3\frac{7}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$8\frac{1}{4}$	8	$5\frac{1}{4}-\frac{1}{16}$
1	$11\frac{3}{4}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	4	7	$3\frac{7}{8}-\frac{1}{16}$	2	$8\frac{3}{8}$	8	$5\frac{5}{8}-\frac{1}{16}$
1	$11\frac{7}{8}$	6	$2\frac{5}{8}$	2	$4\frac{1}{8}$	7	$4\frac{3}{8}$	2	$8\frac{1}{2}$	8	$6\frac{1}{16}$
1	12	6	3	2	$4\frac{1}{4}$	7	$4\frac{3}{4}$	2	$8\frac{5}{8}$	8	$6\frac{1}{2}$
2	0	6	$3\frac{3}{8}$	2	$4\frac{3}{8}$	7	$5\frac{1}{8}$	2	$8\frac{3}{4}$	8	$6\frac{7}{8}$
2	$0\frac{1}{8}$	6	$3\frac{3}{4}$	2	$4\frac{1}{2}$	7	$5\frac{1}{2}$	2	$8\frac{7}{8}$	8	$7\frac{1}{4}-\frac{1}{16}$
2	$0\frac{1}{4}$	6	$4\frac{1}{8}$	2	$4\frac{5}{8}$	7	$5\frac{7}{8}$	2	9	8	$7\frac{5}{8}-\frac{1}{16}$
2	$0\frac{3}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$4\frac{3}{4}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	$9\frac{1}{8}$	8	$8\frac{1}{16}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	9 $\frac{1}{4}$	8	8 $\frac{1}{2}$	3	1 $\frac{5}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	6	10	11 $\frac{7}{8}$ - $\frac{1}{16}$
2	9 $\frac{3}{8}$	8	8 $\frac{7}{8}$	3	1 $\frac{3}{4}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	6 $\frac{1}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$
2	9 $\frac{1}{2}$	8	9 $\frac{1}{4}$	3	1 $\frac{7}{8}$	9	11	3	6 $\frac{1}{4}$	11	0 $\frac{3}{4}$
2	9 $\frac{5}{8}$	8	9 $\frac{3}{8}$	3	2	9	11 $\frac{3}{8}$	3	6 $\frac{3}{8}$	11	1 $\frac{1}{8}$
2	9 $\frac{3}{4}$	8	10	3	2 $\frac{1}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	6 $\frac{1}{2}$	11	1 $\frac{1}{2}$
2	9 $\frac{7}{8}$	8	10 $\frac{3}{8}$	3	2 $\frac{1}{4}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	6 $\frac{5}{8}$	11	1 $\frac{7}{8}$
2	10	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	2 $\frac{3}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	6 $\frac{3}{4}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$
2	10 $\frac{1}{8}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	2 $\frac{1}{2}$	10	1	3	6 $\frac{7}{8}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$
2	10 $\frac{1}{4}$	8	11 $\frac{3}{8}$	3	2 $\frac{5}{8}$	10	1 $\frac{3}{8}$	3	7	11	3 $\frac{1}{16}$
2	10 $\frac{3}{8}$	9	0	3	2 $\frac{3}{4}$	10	1 $\frac{3}{4}$	3	7 $\frac{1}{8}$	11	3 $\frac{1}{2}$
2	10 $\frac{1}{2}$	9	0 $\frac{3}{8}$	3	2 $\frac{7}{8}$	10	2 $\frac{1}{8}$	3	7 $\frac{1}{4}$	11	3 $\frac{7}{8}$
2	10 $\frac{5}{8}$	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	3	10	2 $\frac{1}{2}$	3	7 $\frac{3}{8}$	11	4 $\frac{1}{4}$ - $\frac{1}{16}$
2	10 $\frac{3}{4}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	3 $\frac{1}{8}$	10	2 $\frac{7}{8}$	3	7 $\frac{1}{2}$	11	4 $\frac{5}{8}$ - $\frac{1}{16}$
2	10 $\frac{7}{8}$	9	1 $\frac{3}{8}$	3	3 $\frac{1}{4}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$	3	7 $\frac{5}{8}$	11	5 $\frac{1}{16}$
2	11	9	2	3	3 $\frac{3}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$	3	7 $\frac{3}{4}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$
2	11 $\frac{1}{8}$	9	2 $\frac{3}{8}$	3	3 $\frac{1}{2}$	10	4 $\frac{1}{8}$	3	7 $\frac{7}{8}$	11	5 $\frac{7}{8}$
2	11 $\frac{1}{4}$	9	2 $\frac{3}{4}$	3	3 $\frac{5}{8}$	10	4 $\frac{1}{2}$	3	8	11	6 $\frac{1}{4}$
2	11 $\frac{3}{8}$	9	3 $\frac{1}{8}$	3	3 $\frac{3}{4}$	10	4 $\frac{7}{8}$	3	8 $\frac{1}{8}$	11	6 $\frac{5}{8}$
2	11 $\frac{1}{2}$	9	3 $\frac{1}{2}$	3	3 $\frac{7}{8}$	10	5 $\frac{1}{4}$	3	8 $\frac{1}{4}$	11	7
2	11 $\frac{5}{8}$	9	3 $\frac{7}{8}$	3	4	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	8 $\frac{3}{8}$	11	7 $\frac{3}{8}$
2	11 $\frac{3}{4}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	4 $\frac{1}{8}$	10	6 $\frac{1}{16}$	3	8 $\frac{1}{2}$	11	7 $\frac{3}{4}$ - $\frac{1}{16}$
2	11 $\frac{7}{8}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	4 $\frac{1}{4}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	8 $\frac{5}{8}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$
3	0	9	5 $\frac{1}{8}$	3	4 $\frac{3}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	8 $\frac{3}{4}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$
3	0 $\frac{1}{8}$	9	5 $\frac{1}{2}$	3	4 $\frac{1}{2}$	10	7 $\frac{1}{4}$	3	8 $\frac{7}{8}$	11	9
3	0 $\frac{1}{4}$	9	5 $\frac{5}{8}$	3	4 $\frac{5}{8}$	10	7 $\frac{5}{8}$	3	9	11	9 $\frac{3}{8}$
3	0 $\frac{3}{8}$	9	6 $\frac{1}{4}$	3	4 $\frac{3}{4}$	10	8	3	9 $\frac{1}{8}$	11	9 $\frac{3}{4}$
3	0 $\frac{1}{2}$	9	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	4 $\frac{7}{8}$	10	8 $\frac{3}{8}$	3	9 $\frac{1}{4}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$
3	0 $\frac{5}{8}$	9	7 $\frac{1}{16}$	3	5	10	8 $\frac{3}{4}$ - $\frac{1}{16}$	3	9 $\frac{3}{8}$	11	10 $\frac{1}{2}$ - $\frac{1}{16}$
3	0 $\frac{3}{4}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	5 $\frac{1}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	9 $\frac{1}{2}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$
3	0 $\frac{7}{8}$	9	7 $\frac{7}{8}$	3	5 $\frac{1}{4}$	10	9 $\frac{5}{8}$	3	9 $\frac{5}{8}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$
3	1	9	8 $\frac{1}{4}$	3	5 $\frac{3}{8}$	10	10	3	9 $\frac{3}{4}$	11	11 $\frac{1}{4}$
3	1 $\frac{1}{8}$	9	8 $\frac{5}{8}$	3	5 $\frac{1}{2}$	10	10 $\frac{3}{8}$	3	9 $\frac{7}{8}$	12	0 $\frac{1}{8}$
3	1 $\frac{1}{4}$	9	9	3	5 $\frac{5}{8}$	10	10 $\frac{3}{4}$	3	10	12	0 $\frac{1}{2}$
3	1 $\frac{3}{8}$	9	9 $\frac{3}{8}$	3	5 $\frac{3}{4}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	10 $\frac{1}{8}$	12	0 $\frac{7}{8}$
3	1 $\frac{1}{2}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	5 $\frac{7}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$	3	10 $\frac{1}{4}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	10 $\frac{3}{8}$	12	15 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{3}{4}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$	4	7 $\frac{1}{8}$	14	51 $\frac{1}{8}$ - $\frac{1}{16}$
3	10 $\frac{1}{2}$	12	2 $\frac{1}{16}$	4	2 $\frac{7}{8}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$	4	7 $\frac{1}{4}$	14	51 $\frac{1}{2}$ - $\frac{1}{16}$
3	10 $\frac{5}{8}$	12	2 $\frac{1}{2}$	4	3	13	4 $\frac{1}{4}$	4	7 $\frac{3}{8}$	14	6
3	10 $\frac{3}{4}$	12	2 $\frac{7}{8}$	4	3 $\frac{1}{8}$	13	4 $\frac{3}{8}$	4	7 $\frac{1}{2}$	14	6 $\frac{3}{8}$
3	10 $\frac{7}{8}$	12	3 $\frac{1}{4}$	4	3 $\frac{1}{4}$	13	5	4	7 $\frac{5}{8}$	14	6 $\frac{3}{4}$
3	11	12	3 $\frac{5}{8}$	4	3 $\frac{3}{8}$	13	5 $\frac{3}{8}$	4	7 $\frac{3}{4}$	14	7 $\frac{1}{8}$
3	11 $\frac{1}{8}$	12	4 $\frac{1}{16}$	4	3 $\frac{1}{2}$	13	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	7 $\frac{7}{8}$	14	7 $\frac{1}{2}$
3	11 $\frac{1}{4}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$	4	3 $\frac{5}{8}$	13	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	8	14	7 $\frac{7}{8}$
3	11 $\frac{3}{8}$	12	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	3 $\frac{3}{4}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	8 $\frac{1}{8}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$
3	11 $\frac{1}{2}$	12	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	3 $\frac{7}{8}$	13	7	4	8 $\frac{1}{4}$	14	8 $\frac{5}{8}$ - $\frac{1}{16}$
3	11 $\frac{5}{8}$	12	5 $\frac{3}{8}$	4	4	13	7 $\frac{3}{8}$	4	8 $\frac{3}{8}$	14	9 $\frac{1}{8}$
3	11 $\frac{3}{4}$	12	6	4	4 $\frac{1}{8}$	13	7 $\frac{3}{4}$	4	8 $\frac{1}{2}$	14	9 $\frac{1}{2}$
3	11 $\frac{7}{8}$	12	6 $\frac{3}{8}$	4	4 $\frac{1}{4}$	13	8 $\frac{1}{8}$	4	8 $\frac{5}{8}$	14	9 $\frac{7}{8}$
4	0	12	6 $\frac{3}{4}$ - $\frac{1}{16}$	4	4 $\frac{3}{8}$	13	8 $\frac{1}{2}$	4	8 $\frac{3}{4}$	14	10 $\frac{1}{4}$
4	0 $\frac{1}{8}$	12	7 $\frac{1}{8}$ - $\frac{1}{16}$	4	4 $\frac{1}{2}$	13	8 $\frac{7}{8}$	4	8 $\frac{7}{8}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$
4	0 $\frac{1}{4}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$	4	4 $\frac{5}{8}$	13	9 $\frac{1}{4}$ - $\frac{1}{16}$	4	9	14	11 $\frac{1}{16}$
4	0 $\frac{3}{8}$	12	8	4	4 $\frac{3}{4}$	13	9 $\frac{5}{8}$ - $\frac{1}{16}$	4	9 $\frac{1}{8}$	14	11 $\frac{3}{8}$ - $\frac{1}{16}$
4	0 $\frac{1}{2}$	12	8 $\frac{3}{8}$	4	4 $\frac{7}{8}$	13	10 $\frac{1}{16}$	4	9 $\frac{1}{4}$	14	11 $\frac{7}{8}$
4	0 $\frac{3}{4}$	12	8 $\frac{3}{4}$	4	5	13	10 $\frac{1}{2}$	4	9 $\frac{3}{8}$	15	0 $\frac{1}{4}$
4	0 $\frac{7}{8}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$	4	5 $\frac{1}{8}$	13	10 $\frac{7}{8}$	4	9 $\frac{1}{2}$	15	0 $\frac{5}{8}$
4	1	12	9 $\frac{1}{2}$ - $\frac{1}{16}$	4	5 $\frac{1}{4}$	13	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	9 $\frac{5}{8}$	15	1
4	1 $\frac{1}{8}$	12	9 $\frac{7}{8}$ - $\frac{1}{16}$	4	5 $\frac{3}{8}$	13	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	9 $\frac{3}{4}$	15	1 $\frac{3}{8}$
4	1 $\frac{1}{4}$	12	10 $\frac{1}{4}$ - $\frac{1}{16}$	4	5 $\frac{1}{2}$	14	0 $\frac{1}{16}$	4	9 $\frac{7}{8}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$
4	1 $\frac{1}{2}$	12	10 $\frac{3}{4}$	4	5 $\frac{5}{8}$	14	0 $\frac{1}{2}$	4	10	15	2 $\frac{1}{8}$ - $\frac{1}{16}$
4	1 $\frac{3}{8}$	12	11 $\frac{1}{8}$	4	5 $\frac{3}{4}$	14	0 $\frac{7}{8}$	4	10 $\frac{1}{8}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$
4	1 $\frac{1}{2}$	12	11 $\frac{1}{2}$	4	5 $\frac{7}{8}$	14	1 $\frac{1}{4}$	4	10 $\frac{1}{4}$	15	3
4	1 $\frac{5}{8}$	12	11 $\frac{7}{8}$	4	6	14	1 $\frac{1}{8}$	4	10 $\frac{3}{8}$	15	3 $\frac{3}{8}$
4	1 $\frac{3}{4}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$	4	6 $\frac{1}{8}$	14	2	4	10 $\frac{1}{2}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$
4	1 $\frac{7}{8}$	13	0 $\frac{5}{8}$ - $\frac{1}{16}$	4	6 $\frac{1}{4}$	14	2 $\frac{3}{8}$	4	10 $\frac{5}{8}$	15	4 $\frac{1}{8}$ - $\frac{1}{16}$
4	2	13	1 $\frac{1}{16}$	4	6 $\frac{3}{8}$	14	2 $\frac{3}{4}$ - $\frac{1}{16}$	4	10 $\frac{3}{4}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$
4	2 $\frac{1}{8}$	13	1 $\frac{1}{2}$	4	6 $\frac{1}{2}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$	4	10 $\frac{7}{8}$	15	5
4	2 $\frac{1}{4}$	13	1 $\frac{7}{8}$	4	6 $\frac{5}{8}$	14	3 $\frac{1}{2}$ - $\frac{1}{16}$	4	11	15	5 $\frac{3}{8}$
4	2 $\frac{3}{8}$	13	2 $\frac{1}{4}$	4	6 $\frac{3}{4}$	14	4	4	11 $\frac{1}{8}$	15	5 $\frac{3}{4}$
4	2 $\frac{1}{2}$	13	2 $\frac{5}{8}$	4	6 $\frac{7}{8}$	14	4 $\frac{3}{8}$	4	11 $\frac{1}{4}$	15	6 $\frac{1}{8}$
4	2 $\frac{5}{8}$	13	3 $\frac{1}{16}$	4	7	14	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	11 $\frac{3}{8}$	15	6 $\frac{1}{2}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	11 $\frac{1}{2}$	15	6 $\frac{7}{8}$	5	3 $\frac{7}{8}$	16	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	8 $\frac{1}{4}$	17	10 $\frac{3}{8}$
4	11 $\frac{5}{8}$	15	7 $\frac{1}{4}$ - $\frac{1}{16}$	5	4	16	9 $\frac{1}{8}$	5	8 $\frac{3}{8}$	17	10 $\frac{3}{4}$ - $\frac{1}{16}$
4	11 $\frac{3}{4}$	15	7 $\frac{3}{8}$ - $\frac{1}{16}$	5	4 $\frac{1}{8}$	16	9 $\frac{1}{2}$	5	8 $\frac{1}{2}$	17	11 $\frac{1}{8}$ - $\frac{1}{16}$
4	11 $\frac{7}{8}$	15	8 $\frac{1}{8}$	5	4 $\frac{1}{4}$	16	9 $\frac{7}{8}$	5	8 $\frac{5}{8}$	17	11 $\frac{1}{2}$ - $\frac{1}{16}$
5	0	15	8 $\frac{1}{2}$	5	4 $\frac{3}{8}$	16	10 $\frac{1}{4}$	5	8 $\frac{3}{4}$	18	0
5	0 $\frac{1}{8}$	15	8 $\frac{7}{8}$	5	4 $\frac{1}{2}$	16	10 $\frac{3}{8}$	5	8 $\frac{7}{8}$	18	0 $\frac{3}{8}$
5	0 $\frac{1}{4}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$	5	4 $\frac{5}{8}$	16	11	5	9	18	0 $\frac{3}{4}$ - $\frac{1}{16}$
5	0 $\frac{3}{8}$	15	9 $\frac{3}{8}$ - $\frac{1}{16}$	5	4 $\frac{3}{4}$	16	11 $\frac{3}{8}$	5	9 $\frac{1}{8}$	18	1 $\frac{1}{8}$ - $\frac{1}{16}$
5	0 $\frac{1}{2}$	15	10 $\frac{1}{16}$	5	4 $\frac{7}{8}$	16	11 $\frac{3}{4}$ - $\frac{1}{16}$	5	9 $\frac{1}{4}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$
5	0 $\frac{5}{8}$	15	10 $\frac{1}{2}$	5	5	17	0 $\frac{1}{8}$ - $\frac{1}{16}$	5	9 $\frac{3}{8}$	18	1 $\frac{7}{8}$ - $\frac{1}{16}$
5	0 $\frac{3}{4}$	15	10 $\frac{7}{8}$	5	5 $\frac{1}{8}$	17	0 $\frac{1}{2}$ - $\frac{1}{16}$	5	9 $\frac{1}{2}$	18	2 $\frac{3}{8}$
5	0 $\frac{7}{8}$	15	11 $\frac{1}{4}$	5	5 $\frac{1}{4}$	17	1	5	9 $\frac{5}{8}$	18	2 $\frac{3}{4}$
5	1	15	11 $\frac{5}{8}$	5	5 $\frac{3}{8}$	17	1 $\frac{3}{8}$	5	9 $\frac{3}{4}$	18	3 $\frac{1}{8}$
5	1 $\frac{1}{8}$	16	0	5	5 $\frac{1}{2}$	17	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	9 $\frac{7}{8}$	18	3 $\frac{1}{2}$
5	1 $\frac{1}{4}$	16	0 $\frac{3}{8}$	5	5 $\frac{5}{8}$	17	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	10	18	3 $\frac{7}{8}$
5	1 $\frac{3}{8}$	16	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	5 $\frac{3}{4}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	10 $\frac{1}{8}$	18	4 $\frac{1}{4}$ - $\frac{1}{16}$
5	1 $\frac{1}{2}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$	5	5 $\frac{7}{8}$	17	3	5	10 $\frac{1}{4}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$
5	1 $\frac{5}{8}$	16	1 $\frac{3}{8}$	5	6	17	3 $\frac{3}{8}$	5	10 $\frac{3}{8}$	18	5 $\frac{1}{8}$
5	1 $\frac{3}{4}$	16	2	5	6 $\frac{1}{8}$	17	3 $\frac{3}{4}$	5	10 $\frac{1}{2}$	18	5 $\frac{1}{2}$
5	1 $\frac{7}{8}$	16	2 $\frac{3}{8}$	5	6 $\frac{1}{4}$	17	4 $\frac{1}{8}$	5	10 $\frac{5}{8}$	18	5 $\frac{7}{8}$
5	2	16	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	6 $\frac{3}{8}$	17	4 $\frac{1}{2}$	5	10 $\frac{3}{4}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$
5	2 $\frac{1}{8}$	16	3 $\frac{1}{8}$ - $\frac{1}{16}$	5	6 $\frac{1}{2}$	17	4 $\frac{7}{8}$	5	10 $\frac{7}{8}$	18	6 $\frac{5}{8}$ - $\frac{1}{16}$
5	2 $\frac{1}{4}$	16	3 $\frac{1}{2}$ - $\frac{1}{16}$	5	6 $\frac{5}{8}$	17	5 $\frac{1}{4}$	5	11	18	7 $\frac{1}{16}$
5	2 $\frac{3}{8}$	16	4	5	6 $\frac{3}{4}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$	5	11 $\frac{1}{8}$	18	7 $\frac{3}{8}$ - $\frac{1}{16}$
5	2 $\frac{1}{2}$	16	4 $\frac{3}{8}$	5	6 $\frac{7}{8}$	17	6 $\frac{1}{8}$	5	11 $\frac{1}{4}$	18	7 $\frac{7}{8}$
5	2 $\frac{5}{8}$	16	4 $\frac{3}{4}$	5	7	17	6 $\frac{1}{2}$	5	11 $\frac{3}{8}$	18	8 $\frac{1}{4}$
5	2 $\frac{3}{4}$	16	5 $\frac{1}{8}$	5	7 $\frac{1}{8}$	17	6 $\frac{5}{8}$	5	11 $\frac{1}{2}$	18	8 $\frac{5}{8}$
5	2 $\frac{7}{8}$	16	5 $\frac{1}{2}$	5	7 $\frac{1}{4}$	17	7 $\frac{1}{4}$	5	11 $\frac{5}{8}$	18	9
5	3	16	5 $\frac{7}{8}$	5	7 $\frac{3}{8}$	17	7 $\frac{5}{8}$ - $\frac{1}{16}$	5	11 $\frac{3}{4}$	18	9 $\frac{3}{8}$
5	3 $\frac{1}{8}$	16	6 $\frac{1}{4}$ - $\frac{1}{16}$	5	7 $\frac{1}{2}$	17	8 $\frac{1}{8}$	5	11 $\frac{7}{8}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$
5	3 $\frac{1}{4}$	16	6 $\frac{5}{8}$ - $\frac{1}{16}$	5	7 $\frac{5}{8}$	17	8 $\frac{1}{2}$	6	0	18	10 $\frac{1}{8}$ - $\frac{1}{16}$
5	3 $\frac{3}{8}$	16	7 $\frac{1}{8}$	5	7 $\frac{3}{4}$	17	8 $\frac{7}{8}$	6	0 $\frac{1}{8}$	18	10 $\frac{1}{2}$ - $\frac{1}{16}$
5	3 $\frac{1}{2}$	16	7 $\frac{1}{2}$	5	7 $\frac{7}{8}$	17	9 $\frac{1}{4}$	6	0 $\frac{1}{4}$	18	11
5	3 $\frac{5}{8}$	16	7 $\frac{7}{8}$	5	8	17	9 $\frac{5}{8}$	6	0 $\frac{3}{8}$	18	11 $\frac{3}{8}$
5	3 $\frac{3}{4}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	8 $\frac{1}{8}$	17	10	6	0 $\frac{1}{2}$	18	11 $\frac{3}{4}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	0 $\frac{5}{8}$	19	0 $\frac{1}{8}$	6	5	20	1 $\frac{7}{8}$	6	9 $\frac{3}{8}$	21	3 $\frac{5}{8}$
6	0 $\frac{3}{4}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{1}{8}$	20	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	9 $\frac{1}{2}$	21	4 $\frac{1}{16}$
6	0 $\frac{7}{8}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{4}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	9 $\frac{5}{8}$	21	4 $\frac{3}{8}$ - $\frac{1}{16}$
6	1	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	5 $\frac{3}{8}$	20	3 $\frac{1}{8}$	6	9 $\frac{3}{4}$	21	4 $\frac{3}{4}$ - $\frac{1}{16}$
6	1 $\frac{1}{8}$	19	1 $\frac{3}{4}$	6	5 $\frac{1}{2}$	20	3 $\frac{1}{2}$	6	9 $\frac{7}{8}$	21	5 $\frac{1}{8}$ - $\frac{1}{16}$
6	1 $\frac{1}{4}$	19	2 $\frac{1}{8}$	6	5 $\frac{5}{8}$	20	3 $\frac{7}{8}$	6	10	21	5 $\frac{5}{8}$
6	1 $\frac{3}{8}$	19	2 $\frac{1}{2}$	6	5 $\frac{3}{4}$	20	4 $\frac{1}{4}$	6	10 $\frac{1}{8}$	21	6
6	1 $\frac{1}{2}$	19	2 $\frac{7}{8}$	6	5 $\frac{7}{8}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	10 $\frac{1}{4}$	21	6 $\frac{3}{8}$
6	1 $\frac{5}{8}$	19	3 $\frac{1}{4}$ - $\frac{1}{16}$	6	6	20	5 $\frac{1}{16}$	6	10 $\frac{3}{8}$	21	6 $\frac{3}{4}$ - $\frac{1}{16}$
6	1 $\frac{3}{4}$	19	3 $\frac{5}{8}$ - $\frac{1}{16}$	6	6 $\frac{1}{8}$	20	5 $\frac{3}{8}$ - $\frac{1}{16}$	6	10 $\frac{1}{2}$	21	7 $\frac{1}{8}$ - $\frac{1}{16}$
6	1 $\frac{7}{8}$	19	4 $\frac{1}{8}$	6	6 $\frac{1}{4}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$	6	10 $\frac{5}{8}$	21	7 $\frac{1}{2}$ - $\frac{1}{16}$
6	2	19	4 $\frac{1}{2}$	6	6 $\frac{3}{8}$	20	6 $\frac{1}{4}$	6	10 $\frac{3}{4}$	21	8
6	2 $\frac{1}{8}$	19	4 $\frac{7}{8}$	6	6 $\frac{1}{2}$	20	6 $\frac{5}{8}$	6	10 $\frac{7}{8}$	21	8 $\frac{3}{8}$
6	2 $\frac{1}{4}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	6 $\frac{5}{8}$	20	7	6	11	21	8 $\frac{3}{4}$
6	2 $\frac{3}{8}$	19	5 $\frac{5}{8}$ - $\frac{1}{16}$	6	6 $\frac{3}{4}$	20	7 $\frac{3}{8}$	6	11 $\frac{1}{8}$	21	9 $\frac{1}{8}$
6	2 $\frac{1}{2}$	19	6 $\frac{1}{16}$	6	6 $\frac{7}{8}$	20	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	11 $\frac{1}{4}$	21	9 $\frac{1}{2}$ - $\frac{1}{16}$
6	2 $\frac{5}{8}$	19	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	7	20	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	11 $\frac{3}{8}$	21	9 $\frac{7}{8}$ - $\frac{1}{16}$
6	2 $\frac{3}{4}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$	6	7 $\frac{1}{8}$	20	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	11 $\frac{1}{2}$	21	10 $\frac{1}{4}$ - $\frac{1}{16}$
6	2 $\frac{7}{8}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$	6	7 $\frac{1}{4}$	20	9	6	11 $\frac{5}{8}$	21	10 $\frac{5}{8}$ - $\frac{1}{16}$
6	3	19	7 $\frac{1}{2}$ - $\frac{1}{16}$	6	7 $\frac{3}{8}$	20	9 $\frac{3}{8}$	6	11 $\frac{3}{4}$	21	11 $\frac{1}{8}$
6	3 $\frac{1}{8}$	19	8	6	7 $\frac{1}{2}$	20	9 $\frac{3}{4}$	6	11 $\frac{7}{8}$	21	11 $\frac{1}{2}$
6	3 $\frac{1}{4}$	19	8 $\frac{3}{8}$	6	7 $\frac{5}{8}$	20	10 $\frac{1}{8}$	7	0	21	11 $\frac{7}{8}$
6	3 $\frac{3}{8}$	19	8 $\frac{3}{4}$ - $\frac{1}{16}$	6	7 $\frac{3}{4}$	20	10 $\frac{1}{2}$	7	0 $\frac{1}{8}$	22	0 $\frac{1}{4}$ - $\frac{1}{16}$
6	3 $\frac{1}{2}$	19	9 $\frac{1}{8}$ - $\frac{1}{16}$	6	7 $\frac{7}{8}$	20	10 $\frac{7}{8}$	7	0 $\frac{1}{4}$	22	0 $\frac{5}{8}$ - $\frac{1}{16}$
6	3 $\frac{5}{8}$	19	9 $\frac{1}{2}$ - $\frac{1}{16}$	6	8	20	11 $\frac{1}{4}$ - $\frac{1}{16}$	7	0 $\frac{3}{8}$	22	1 $\frac{1}{8}$
6	3 $\frac{3}{4}$	19	10	6	8 $\frac{1}{8}$	20	11 $\frac{3}{8}$ - $\frac{1}{16}$	7	0 $\frac{1}{2}$	22	1 $\frac{1}{2}$
6	3 $\frac{7}{8}$	19	10 $\frac{3}{8}$	6	8 $\frac{1}{4}$	21	0 $\frac{1}{8}$	7	0 $\frac{5}{8}$	22	1 $\frac{7}{8}$
6	4	19	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	8 $\frac{3}{8}$	21	0 $\frac{1}{2}$	7	0 $\frac{3}{4}$	22	2 $\frac{1}{4}$
6	4 $\frac{1}{8}$	19	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	8 $\frac{1}{2}$	21	0 $\frac{5}{8}$	7	0 $\frac{7}{8}$	22	2 $\frac{5}{8}$
6	4 $\frac{1}{4}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	8 $\frac{5}{8}$	21	1 $\frac{1}{4}$ - $\frac{1}{16}$	7	1	22	3
6	4 $\frac{3}{8}$	19	11 $\frac{7}{8}$ - $\frac{1}{16}$	6	8 $\frac{3}{4}$	21	1 $\frac{5}{8}$ - $\frac{1}{16}$	7	1 $\frac{1}{8}$	22	3 $\frac{3}{8}$
6	4 $\frac{1}{2}$	20	0 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{7}{8}$	21	2 $\frac{1}{8}$	7	1 $\frac{1}{4}$	22	3 $\frac{3}{4}$ - $\frac{1}{16}$
6	4 $\frac{5}{8}$	20	0 $\frac{5}{8}$ - $\frac{1}{16}$	6	9	21	2 $\frac{1}{2}$	7	1 $\frac{3}{8}$	22	4 $\frac{1}{8}$ - $\frac{1}{16}$
6	4 $\frac{3}{4}$	20	1 $\frac{1}{8}$	6	9 $\frac{1}{8}$	21	2 $\frac{7}{8}$	7	1 $\frac{1}{2}$	22	4 $\frac{1}{2}$ - $\frac{1}{16}$
6	4 $\frac{7}{8}$	20	1 $\frac{1}{2}$	6	9 $\frac{1}{4}$	21	3 $\frac{1}{4}$	7	1 $\frac{5}{8}$	22	5



Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	1 $\frac{3}{4}$	22	5 $\frac{3}{8}$	7	6 $\frac{1}{8}$	23	7 $\frac{1}{8}$	7	10 $\frac{1}{2}$	24	8 $\frac{7}{8}$
7	1 $\frac{7}{8}$	22	5 $\frac{3}{4}$ - $\frac{1}{16}$	7	6 $\frac{1}{4}$	23	7 $\frac{1}{2}$	7	10 $\frac{5}{8}$	24	9 $\frac{1}{4}$ - $\frac{1}{16}$
7	2	22	6 $\frac{1}{8}$ - $\frac{1}{16}$	7	6 $\frac{3}{8}$	23	7 $\frac{7}{8}$	7	10 $\frac{3}{4}$	24	9 $\frac{5}{8}$ - $\frac{1}{16}$
7	2 $\frac{1}{8}$	22	6 $\frac{1}{2}$ - $\frac{1}{16}$	7	6 $\frac{1}{2}$	23	8 $\frac{1}{4}$ - $\frac{1}{16}$	7	10 $\frac{7}{8}$	24	10 $\frac{1}{16}$
7	2 $\frac{1}{4}$	22	7	7	6 $\frac{5}{8}$	23	8 $\frac{5}{8}$ - $\frac{1}{16}$	7	11	24	10 $\frac{3}{8}$ - $\frac{1}{16}$
7	2 $\frac{3}{8}$	22	7 $\frac{3}{8}$	7	6 $\frac{3}{4}$	23	9 $\frac{1}{16}$	7	11 $\frac{1}{8}$	24	10 $\frac{3}{4}$ - $\frac{1}{16}$
7	2 $\frac{1}{2}$	22	7 $\frac{3}{4}$	7	6 $\frac{7}{8}$	23	9 $\frac{1}{2}$	7	11 $\frac{1}{4}$	24	11 $\frac{1}{4}$
7	2 $\frac{5}{8}$	22	8 $\frac{1}{8}$	7	7	23	9 $\frac{7}{8}$	7	11 $\frac{3}{8}$	24	11 $\frac{5}{8}$
7	2 $\frac{3}{4}$	22	8 $\frac{1}{2}$	7	7 $\frac{1}{8}$	23	10 $\frac{1}{4}$ - $\frac{1}{16}$	7	11 $\frac{1}{2}$	25	0
7	2 $\frac{7}{8}$	22	8 $\frac{7}{8}$ - $\frac{1}{16}$	7	7 $\frac{1}{4}$	23	10 $\frac{5}{8}$ - $\frac{1}{16}$	7	11 $\frac{5}{8}$	25	0 $\frac{3}{8}$
7	3	22	9 $\frac{1}{4}$ - $\frac{1}{16}$	7	7 $\frac{3}{8}$	23	11 $\frac{1}{16}$	7	11 $\frac{3}{4}$	25	0 $\frac{3}{4}$ - $\frac{1}{16}$
7	3 $\frac{1}{8}$	22	9 $\frac{3}{8}$ - $\frac{1}{16}$	7	7 $\frac{1}{2}$	23	11 $\frac{3}{8}$ - $\frac{1}{16}$	7	11 $\frac{7}{8}$	25	1 $\frac{1}{8}$ - $\frac{1}{16}$
7	3 $\frac{1}{4}$	22	10 $\frac{1}{8}$	7	7 $\frac{5}{8}$	23	11 $\frac{7}{8}$	8	0	25	1 $\frac{1}{2}$ - $\frac{1}{16}$
7	3 $\frac{3}{8}$	22	10 $\frac{1}{2}$	7	7 $\frac{3}{4}$	24	0 $\frac{1}{4}$	8	0 $\frac{1}{8}$	25	2
7	3 $\frac{1}{2}$	22	10 $\frac{7}{8}$	7	7 $\frac{7}{8}$	24	0 $\frac{5}{8}$	8	0 $\frac{1}{4}$	25	2 $\frac{3}{8}$
7	3 $\frac{5}{8}$	22	11 $\frac{1}{4}$ - $\frac{1}{16}$	7	8	24	1	8	0 $\frac{3}{8}$	25	2 $\frac{3}{4}$ - $\frac{1}{16}$
7	3 $\frac{3}{4}$	22	11 $\frac{3}{8}$ - $\frac{1}{16}$	7	8 $\frac{1}{8}$	24	1 $\frac{3}{8}$	8	0 $\frac{1}{2}$	25	3 $\frac{1}{8}$ - $\frac{1}{16}$
7	3 $\frac{7}{8}$	23	0 $\frac{1}{8}$	7	8 $\frac{1}{4}$	24	1 $\frac{3}{4}$ - $\frac{1}{16}$	8	0 $\frac{5}{8}$	25	3 $\frac{1}{2}$ - $\frac{1}{16}$
7	4	23	0 $\frac{1}{2}$	7	8 $\frac{3}{8}$	24	2 $\frac{1}{8}$ - $\frac{1}{16}$	8	0 $\frac{3}{4}$	25	4
7	4 $\frac{1}{8}$	23	0 $\frac{7}{8}$	7	8 $\frac{1}{2}$	24	2 $\frac{1}{2}$ - $\frac{1}{16}$	8	0 $\frac{7}{8}$	25	4 $\frac{3}{8}$
7	4 $\frac{1}{4}$	23	1 $\frac{1}{4}$	7	8 $\frac{5}{8}$	24	3	8	1	25	4 $\frac{3}{4}$
7	4 $\frac{3}{8}$	23	1 $\frac{3}{8}$	7	8 $\frac{3}{4}$	24	3 $\frac{3}{8}$	8	1 $\frac{1}{8}$	25	5 $\frac{1}{8}$
7	4 $\frac{1}{2}$	23	2	7	8 $\frac{7}{8}$	24	3 $\frac{3}{4}$ - $\frac{1}{16}$	8	1 $\frac{1}{4}$	25	5 $\frac{1}{2}$
7	4 $\frac{5}{8}$	23	2 $\frac{3}{8}$	7	9	24	4 $\frac{1}{8}$ - $\frac{1}{16}$	8	1 $\frac{3}{8}$	25	5 $\frac{7}{8}$
7	4 $\frac{3}{4}$	23	2 $\frac{3}{4}$ - $\frac{1}{16}$	7	9 $\frac{1}{8}$	24	4 $\frac{1}{2}$ - $\frac{1}{16}$	8	1 $\frac{1}{2}$	25	6 $\frac{1}{4}$ - $\frac{1}{16}$
7	4 $\frac{7}{8}$	23	3 $\frac{1}{8}$ - $\frac{1}{16}$	7	9 $\frac{1}{4}$	24	5	8	1 $\frac{5}{8}$	25	6 $\frac{3}{8}$ - $\frac{1}{16}$
7	5	23	3 $\frac{1}{2}$ - $\frac{1}{16}$	7	9 $\frac{3}{8}$	24	5 $\frac{3}{8}$	8	1 $\frac{3}{4}$	25	7 $\frac{1}{8}$
7	5 $\frac{1}{8}$	23	4	7	9 $\frac{1}{2}$	24	5 $\frac{3}{4}$	8	1 $\frac{7}{8}$	25	7 $\frac{1}{2}$
7	5 $\frac{1}{4}$	23	4 $\frac{3}{8}$	7	9 $\frac{5}{8}$	24	6 $\frac{1}{8}$	8	2	25	7 $\frac{7}{8}$
7	5 $\frac{3}{8}$	23	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	9 $\frac{3}{4}$	24	6 $\frac{1}{2}$	8	2 $\frac{1}{8}$	25	8 $\frac{1}{4}$ - $\frac{1}{16}$
7	5 $\frac{1}{2}$	23	5 $\frac{1}{8}$ - $\frac{1}{16}$	7	9 $\frac{7}{8}$	24	6 $\frac{7}{8}$	8	2 $\frac{1}{4}$	25	8 $\frac{5}{8}$ - $\frac{1}{16}$
7	5 $\frac{5}{8}$	23	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	10	24	7 $\frac{1}{4}$ - $\frac{1}{16}$	8	2 $\frac{3}{8}$	25	9 $\frac{1}{16}$
7	5 $\frac{3}{4}$	23	6	7	10 $\frac{1}{8}$	24	7 $\frac{3}{8}$ - $\frac{1}{16}$	8	2 $\frac{1}{2}$	25	9 $\frac{3}{8}$ - $\frac{1}{16}$
7	5 $\frac{7}{8}$	23	6 $\frac{3}{8}$	7	10 $\frac{1}{4}$	24	8 $\frac{1}{8}$	8	2 $\frac{5}{8}$	25	9 $\frac{7}{8}$
7	6	23	6 $\frac{3}{4}$	7	10 $\frac{3}{8}$	24	8 $\frac{1}{2}$	8	2 $\frac{3}{4}$	25	10 $\frac{1}{4}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$2\frac{7}{8}$	25	$10\frac{5}{8}$	8	$7\frac{1}{4}$	27	$0\frac{1}{4}-\frac{1}{16}$	8	$11\frac{5}{8}$	28	$2\frac{1}{16}$
8	3	25	11	8	$7\frac{3}{8}$	27	$0\frac{5}{8}-\frac{1}{16}$	8	$11\frac{3}{4}$	28	$2\frac{1}{2}$
8	$3\frac{1}{8}$	25	$11\frac{3}{8}$	8	$7\frac{1}{2}$	27	$1\frac{1}{16}$	8	$11\frac{7}{8}$	28	$2\frac{7}{8}$
8	$3\frac{1}{4}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$7\frac{5}{8}$	27	$1\frac{1}{2}$	9	0	28	$3\frac{1}{4}$
8	$3\frac{3}{8}$	26	$0\frac{1}{8}-\frac{1}{16}$	8	$7\frac{3}{4}$	27	$1\frac{7}{8}-\frac{1}{16}$	9	$0\frac{1}{8}$	28	$3\frac{5}{8}$
8	$3\frac{1}{2}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	$7\frac{7}{8}$	27	$2\frac{1}{4}-\frac{1}{16}$	9	$0\frac{1}{4}$	28	4
8	$3\frac{5}{8}$	26	1	8	8	27	$2\frac{5}{8}-\frac{1}{16}$	9	$0\frac{3}{8}$	28	$4\frac{3}{8}-\frac{1}{16}$
8	$3\frac{3}{4}$	26	$1\frac{3}{8}$	8	$8\frac{1}{8}$	27	$3\frac{1}{16}$	9	$0\frac{1}{2}$	28	$4\frac{7}{8}$
8	$3\frac{7}{8}$	26	$1\frac{3}{4}$	8	$8\frac{1}{4}$	27	$3\frac{1}{2}$	9	$0\frac{5}{8}$	28	$5\frac{1}{4}$
8	4	26	$2\frac{1}{8}-\frac{1}{16}$	8	$8\frac{3}{8}$	27	$3\frac{5}{8}$	9	$0\frac{3}{4}$	28	$5\frac{5}{8}$
8	$4\frac{1}{8}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	$8\frac{1}{2}$	27	$4\frac{1}{4}$	9	$0\frac{7}{8}$	28	6
8	$4\frac{1}{4}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$8\frac{5}{8}$	27	$4\frac{5}{8}-\frac{1}{16}$	9	1	28	$6\frac{3}{8}$
8	$4\frac{3}{8}$	26	$3\frac{1}{4}-\frac{1}{16}$	8	$8\frac{3}{4}$	27	$5\frac{1}{16}$	9	$1\frac{1}{8}$	28	$6\frac{3}{4}-\frac{1}{16}$
8	$4\frac{1}{2}$	26	$3\frac{3}{4}$	8	$8\frac{7}{8}$	27	$5\frac{3}{8}-\frac{1}{16}$	9	$1\frac{1}{4}$	28	$7\frac{1}{8}-\frac{1}{16}$
8	$4\frac{5}{8}$	26	$4\frac{1}{8}$	8	9	27	$5\frac{7}{8}$	9	$1\frac{3}{8}$	28	$7\frac{1}{2}-\frac{1}{16}$
8	$4\frac{3}{4}$	26	$4\frac{1}{2}$	8	$9\frac{1}{8}$	27	$6\frac{1}{4}$	9	$1\frac{1}{2}$	28	8
8	$4\frac{7}{8}$	26	$4\frac{7}{8}$	8	$9\frac{1}{4}$	27	$6\frac{3}{8}$	9	$1\frac{5}{8}$	28	$8\frac{3}{8}$
8	5	26	$5\frac{1}{4}-\frac{1}{16}$	8	$9\frac{3}{8}$	27	7	9	$1\frac{3}{4}$	28	$8\frac{3}{4}$
8	$5\frac{1}{8}$	26	$5\frac{5}{8}-\frac{1}{16}$	8	$9\frac{1}{2}$	27	$7\frac{3}{8}-\frac{1}{16}$	9	$1\frac{7}{8}$	28	$9\frac{1}{8}$
8	$5\frac{1}{4}$	26	$6\frac{1}{16}$	8	$9\frac{5}{8}$	27	$7\frac{7}{4}-\frac{1}{16}$	9	2	28	$9\frac{1}{2}$
8	$5\frac{3}{8}$	26	$6\frac{1}{2}$	8	$9\frac{3}{4}$	27	$8\frac{1}{8}-\frac{1}{16}$	9	$2\frac{1}{8}$	28	$9\frac{7}{8}-\frac{1}{16}$
8	$5\frac{1}{2}$	26	$6\frac{7}{8}$	8	$9\frac{7}{8}$	27	$8\frac{5}{8}$	9	$2\frac{1}{4}$	28	$10\frac{1}{4}-\frac{1}{16}$
8	$5\frac{5}{8}$	26	$7\frac{1}{4}$	8	10	27	9	9	$2\frac{3}{8}$	28	$10\frac{3}{4}$
8	$5\frac{3}{4}$	26	$7\frac{5}{8}$	8	$10\frac{1}{8}$	27	$9\frac{3}{8}$	9	$2\frac{1}{2}$	28	$11\frac{1}{8}$
8	$5\frac{7}{8}$	26	8	8	$10\frac{1}{4}$	27	$9\frac{3}{4}$	9	$2\frac{5}{8}$	28	$11\frac{1}{2}$
8	6	26	$8\frac{3}{8}-\frac{1}{16}$	8	$10\frac{3}{8}$	27	$10\frac{1}{8}$	9	$2\frac{3}{4}$	28	$11\frac{7}{8}$
8	$6\frac{1}{8}$	26	$8\frac{3}{4}-\frac{1}{16}$	8	$10\frac{1}{2}$	27	$10\frac{1}{2}$	9	$2\frac{7}{8}$	29	$0\frac{1}{4}-\frac{1}{16}$
8	$6\frac{1}{4}$	26	$9\frac{1}{8}-\frac{1}{16}$	8	$10\frac{5}{8}$	27	$10\frac{5}{8}-\frac{1}{16}$	9	3	29	$0\frac{5}{8}-\frac{1}{16}$
8	$6\frac{3}{8}$	26	$9\frac{1}{2}-\frac{1}{16}$	8	$10\frac{3}{4}$	27	$11\frac{1}{4}-\frac{1}{16}$	9	$3\frac{1}{8}$	29	$1\frac{1}{16}$
8	$6\frac{1}{2}$	26	10	8	$10\frac{7}{8}$	27	$11\frac{3}{4}$	9	$3\frac{1}{4}$	29	$1\frac{1}{2}$
8	$6\frac{5}{8}$	26	$10\frac{3}{8}$	8	11	28	$0\frac{1}{8}$	9	$3\frac{3}{8}$	29	$1\frac{7}{8}$
8	$6\frac{3}{4}$	26	$10\frac{3}{4}$	8	$11\frac{1}{8}$	23	$0\frac{1}{2}$	9	$3\frac{1}{2}$	29	$2\frac{1}{4}$
8	$6\frac{7}{8}$	26	$11\frac{1}{8}$	8	$11\frac{1}{4}$	28	$0\frac{7}{8}$	9	$3\frac{5}{8}$	29	$2\frac{5}{8}$
8	7	26	$11\frac{1}{2}$	8	$11\frac{3}{8}$	28	$1\frac{1}{4}-\frac{1}{16}$	9	$3\frac{3}{4}$	29	3
8	$7\frac{1}{8}$	26	$11\frac{7}{8}-\frac{1}{16}$	8	$11\frac{1}{2}$	28	$1\frac{5}{8}-\frac{1}{16}$	9	$3\frac{7}{8}$	29	$3\frac{3}{8}-\frac{1}{16}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	4	29	$3\frac{3}{4}-\frac{1}{16}$	9	$8\frac{3}{8}$	30	$5\frac{1}{2}-\frac{1}{16}$	10	$0\frac{3}{4}$	31	$7\frac{1}{4}-\frac{1}{16}$
9	$4\frac{1}{8}$	29	$4\frac{1}{4}$	9	$8\frac{1}{2}$	30	6	10	$0\frac{7}{8}$	31	$7\frac{5}{8}-\frac{1}{16}$
9	$4\frac{1}{4}$	29	$4\frac{5}{8}$	9	$8\frac{3}{8}$	30	$6\frac{3}{8}$	10	1	31	$8\frac{1}{8}$
9	$4\frac{3}{8}$	29	5	9	$8\frac{3}{4}$	30	$6\frac{3}{4}$	10	$1\frac{1}{8}$	31	$8\frac{1}{2}$
9	$4\frac{1}{2}$	29	$5\frac{3}{8}$	9	$8\frac{7}{8}$	30	$7\frac{1}{8}$	10	$1\frac{1}{4}$	31	$8\frac{7}{8}$
9	$4\frac{5}{8}$	29	$5\frac{3}{4}-\frac{1}{16}$	9	9	30	$7\frac{1}{2}$	10	$1\frac{3}{8}$	31	$9\frac{1}{4}$
9	$4\frac{3}{4}$	29	$6\frac{1}{8}-\frac{1}{16}$	9	$9\frac{1}{8}$	30	$7\frac{7}{8}-\frac{1}{16}$	10	$1\frac{1}{2}$	31	$9\frac{5}{8}-\frac{1}{16}$
9	$4\frac{7}{8}$	29	$6\frac{1}{2}-\frac{1}{16}$	9	$9\frac{1}{4}$	30	$8\frac{1}{4}-\frac{1}{16}$	10	$1\frac{5}{8}$	31	$10\frac{1}{16}$
9	5	29	7	9	$9\frac{3}{8}$	30	$8\frac{3}{4}$	10	$1\frac{3}{4}$	31	$10\frac{3}{8}-\frac{1}{16}$
9	$5\frac{1}{8}$	29	$7\frac{3}{8}$	9	$9\frac{1}{2}$	30	$9\frac{1}{8}$	10	$1\frac{7}{8}$	31	$10\frac{7}{8}$
9	$5\frac{1}{4}$	29	$7\frac{3}{4}$	9	$9\frac{5}{8}$	30	$9\frac{1}{2}$	10	2	31	$11\frac{1}{4}$
9	$5\frac{3}{8}$	29	$8\frac{1}{8}$	9	$9\frac{3}{4}$	30	$9\frac{7}{8}$	10	$2\frac{1}{8}$	31	$11\frac{5}{8}$
9	$5\frac{1}{2}$	29	$8\frac{1}{2}-\frac{1}{16}$	9	$9\frac{7}{8}$	30	$10\frac{1}{4}$	10	$2\frac{1}{4}$	32	0
9	$5\frac{5}{8}$	29	$8\frac{7}{8}-\frac{1}{16}$	9	10	30	$10\frac{5}{8}-\frac{1}{16}$	10	$2\frac{3}{8}$	32	$0\frac{3}{8}-\frac{1}{16}$
9	$5\frac{3}{4}$	29	$9\frac{1}{4}-\frac{1}{16}$	9	$10\frac{1}{8}$	30	$11\frac{1}{16}$	10	$2\frac{1}{2}$	32	$0\frac{3}{4}-\frac{1}{16}$
9	$5\frac{7}{8}$	29	$9\frac{3}{4}$	9	$10\frac{1}{4}$	30	$11\frac{3}{8}-\frac{1}{16}$	10	$2\frac{5}{8}$	32	$1\frac{1}{8}-\frac{1}{16}$
9	6	29	$10\frac{1}{8}$	9	$10\frac{3}{8}$	30	$11\frac{7}{8}$	10	$2\frac{3}{4}$	32	$1\frac{5}{8}$
9	$6\frac{1}{8}$	29	$10\frac{1}{2}$	9	$10\frac{1}{2}$	31	$0\frac{1}{4}$	10	$2\frac{7}{8}$	32	2
9	$6\frac{1}{4}$	29	$10\frac{7}{8}$	9	$10\frac{5}{8}$	31	$0\frac{5}{8}$	10	3	32	$2\frac{3}{8}$
9	$6\frac{3}{8}$	29	$11\frac{1}{4}-\frac{1}{16}$	9	$10\frac{3}{4}$	31	1	10	$3\frac{1}{8}$	32	$2\frac{3}{4}-\frac{1}{16}$
9	$6\frac{1}{2}$	29	$11\frac{5}{8}-\frac{1}{16}$	9	$10\frac{7}{8}$	31	$1\frac{3}{8}-\frac{1}{16}$	10	$3\frac{1}{4}$	32	$3\frac{1}{8}-\frac{1}{16}$
9	$6\frac{5}{8}$	30	$0\frac{1}{16}$	9	11	31	$1\frac{3}{4}-\frac{1}{16}$	10	$3\frac{3}{8}$	32	$3\frac{1}{2}-\frac{1}{16}$
9	$6\frac{3}{4}$	30	$0\frac{3}{8}-\frac{1}{16}$	9	$11\frac{1}{8}$	31	$2\frac{1}{4}$	10	$3\frac{1}{2}$	32	$3\frac{7}{8}-\frac{1}{16}$
9	$6\frac{7}{8}$	30	$0\frac{7}{8}$	9	$11\frac{1}{4}$	31	$2\frac{5}{8}$	10	$3\frac{5}{8}$	32	$4\frac{3}{8}$
9	7	30	$1\frac{1}{4}$	9	$11\frac{3}{8}$	31	3	10	$3\frac{3}{4}$	32	$4\frac{3}{4}$
9	$7\frac{1}{8}$	30	$1\frac{5}{8}$	9	$11\frac{1}{2}$	31	$3\frac{3}{8}$	10	$3\frac{7}{8}$	32	$5\frac{1}{8}$
9	$7\frac{1}{4}$	30	2	9	$11\frac{5}{8}$	31	$3\frac{3}{4}$	10	4	32	$5\frac{1}{2}$
9	$7\frac{3}{8}$	30	$2\frac{3}{8}-\frac{1}{16}$	9	$11\frac{3}{4}$	31	$4\frac{1}{8}$	10	$4\frac{1}{8}$	32	$5\frac{7}{8}-\frac{1}{16}$
9	$7\frac{1}{2}$	30	$2\frac{3}{4}-\frac{1}{16}$	9	$11\frac{7}{8}$	31	$4\frac{1}{2}-\frac{1}{16}$	10	$4\frac{1}{4}$	32	$6\frac{1}{4}-\frac{1}{16}$
9	$7\frac{5}{8}$	30	$3\frac{1}{4}$	10	0	31	5	10	$4\frac{3}{8}$	32	$6\frac{3}{8}-\frac{1}{16}$
9	$7\frac{3}{4}$	30	$3\frac{5}{8}$	10	$0\frac{1}{8}$	31	$5\frac{3}{8}$	10	$4\frac{1}{2}$	32	$7\frac{1}{8}$
9	$7\frac{7}{8}$	30	4	10	$0\frac{1}{4}$	31	$5\frac{3}{4}$	10	$4\frac{5}{8}$	32	$7\frac{1}{2}$
9	8	30	$4\frac{3}{8}$	10	$0\frac{3}{8}$	31	$6\frac{1}{8}$	10	$4\frac{3}{4}$	32	$7\frac{7}{8}$
9	$8\frac{1}{8}$	30	$4\frac{3}{4}$	10	$0\frac{1}{2}$	31	$6\frac{1}{2}$	10	$4\frac{7}{8}$	32	$8\frac{1}{4}$
9	$8\frac{1}{4}$	30	$5\frac{1}{8}-\frac{1}{16}$	10	$0\frac{5}{8}$	31	$6\frac{7}{8}-\frac{1}{16}$	10	5	32	$8\frac{5}{8}-\frac{1}{16}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	$5\frac{1}{8}$	32	$9\frac{1}{16}$	10	$9\frac{1}{2}$	33	$10\frac{3}{4}-\frac{1}{16}$	11	$1\frac{7}{8}$	35	$0\frac{1}{2}-\frac{1}{16}$
10	$5\frac{1}{4}$	32	$9\frac{3}{8}-\frac{1}{16}$	10	$9\frac{5}{8}$	33	$11\frac{1}{8}-\frac{1}{16}$	11	2	35	$0\frac{7}{8}-\frac{1}{16}$
10	$5\frac{3}{8}$	32	$9\frac{3}{4}-\frac{1}{16}$	10	$9\frac{3}{4}$	33	$11\frac{1}{2}-\frac{1}{16}$	11	$2\frac{1}{8}$	35	$1\frac{1}{4}-\frac{1}{16}$
10	$5\frac{1}{2}$	32	$10\frac{1}{4}$	10	$9\frac{7}{8}$	34	0	11	$2\frac{1}{4}$	35	$1\frac{3}{4}$
10	$5\frac{5}{8}$	32	$10\frac{3}{8}$	10	10	34	$0\frac{3}{8}$	11	$2\frac{3}{8}$	35	$2\frac{1}{8}$
10	$5\frac{3}{4}$	32	11	10	$10\frac{1}{8}$	34	$0\frac{3}{4}$	11	$2\frac{1}{2}$	35	$2\frac{1}{2}$
10	$5\frac{7}{8}$	32	$11\frac{3}{8}-\frac{1}{16}$	10	$10\frac{1}{4}$	34	$1\frac{1}{8}-\frac{1}{16}$	11	$2\frac{5}{8}$	35	$2\frac{7}{8}$
10	6	32	$11\frac{3}{4}-\frac{1}{16}$	10	$10\frac{3}{8}$	34	$1\frac{1}{2}-\frac{1}{16}$	11	$2\frac{3}{4}$	35	$3\frac{1}{4}-\frac{1}{16}$
10	$6\frac{1}{8}$	33	$0\frac{1}{4}$	10	$10\frac{1}{2}$	34	$1\frac{7}{8}-\frac{1}{16}$	11	$2\frac{7}{8}$	35	$3\frac{5}{8}-\frac{1}{16}$
10	$6\frac{1}{4}$	33	$0\frac{5}{8}$	10	$10\frac{5}{8}$	34	$2\frac{1}{4}-\frac{1}{16}$	11	3	35	$4\frac{1}{16}$
10	$6\frac{3}{8}$	33	1	10	$10\frac{3}{4}$	34	$2\frac{3}{4}$	11	$3\frac{1}{8}$	35	$4\frac{1}{2}$
10	$6\frac{1}{2}$	33	$1\frac{3}{8}$	10	$10\frac{7}{8}$	34	$3\frac{1}{8}$	11	$3\frac{1}{4}$	35	$4\frac{7}{8}$
10	$6\frac{5}{8}$	33	$1\frac{3}{4}$	10	11	34	$3\frac{1}{2}$	11	$3\frac{3}{8}$	35	$5\frac{1}{4}$
10	$6\frac{3}{4}$	33	$2\frac{1}{8}-\frac{1}{16}$	10	$11\frac{1}{8}$	34	$3\frac{7}{8}-\frac{1}{16}$	11	$3\frac{1}{2}$	35	$5\frac{5}{8}$
10	$6\frac{7}{8}$	33	$2\frac{1}{2}-\frac{1}{16}$	10	$11\frac{1}{4}$	34	$4\frac{1}{4}-\frac{1}{16}$	11	$3\frac{5}{8}$	35	$6\frac{1}{16}$
10	7	33	3	10	$11\frac{3}{8}$	34	$4\frac{5}{8}-\frac{1}{16}$	11	$3\frac{3}{4}$	35	$6\frac{3}{8}-\frac{1}{16}$
10	$7\frac{1}{8}$	33	$3\frac{3}{8}$	10	$11\frac{1}{2}$	34	$5\frac{1}{16}$	11	$3\frac{7}{8}$	35	$6\frac{3}{4}-\frac{1}{16}$
10	$7\frac{1}{4}$	33	$3\frac{3}{4}$	10	$11\frac{5}{8}$	34	$5\frac{1}{2}$	11	4	35	$7\frac{1}{4}$
10	$7\frac{3}{8}$	33	$4\frac{1}{8}$	10	$11\frac{3}{4}$	34	$5\frac{7}{8}$	11	$4\frac{1}{8}$	35	$7\frac{5}{8}$
10	$7\frac{1}{2}$	33	$4\frac{1}{2}$	10	$11\frac{7}{8}$	34	$6\frac{1}{4}$	11	$4\frac{1}{4}$	35	8
10	$7\frac{5}{8}$	33	$4\frac{7}{8}$	11	0	34	$6\frac{5}{8}-\frac{1}{16}$	11	$4\frac{3}{8}$	35	$8\frac{3}{8}-\frac{1}{16}$
10	$7\frac{3}{4}$	33	$5\frac{1}{4}-\frac{1}{16}$	11	$0\frac{1}{8}$	34	$7\frac{1}{16}$	11	$4\frac{1}{2}$	35	$8\frac{3}{4}-\frac{1}{16}$
10	$7\frac{7}{8}$	33	$5\frac{5}{8}-\frac{1}{16}$	11	$0\frac{1}{4}$	34	$7\frac{3}{8}-\frac{1}{16}$	11	$4\frac{5}{8}$	35	$9\frac{1}{8}-\frac{1}{16}$
10	8	33	$6\frac{1}{16}$	11	$0\frac{3}{8}$	34	$7\frac{3}{4}-\frac{1}{16}$	11	$4\frac{3}{4}$	35	$9\frac{1}{2}-\frac{1}{16}$
10	$8\frac{1}{8}$	33	$6\frac{1}{2}$	11	$0\frac{1}{2}$	34	$8\frac{1}{4}$	11	$4\frac{7}{8}$	35	10
10	$8\frac{1}{4}$	33	$6\frac{7}{8}$	11	$0\frac{5}{8}$	34	$8\frac{5}{8}$	11	5	35	$10\frac{3}{8}$
10	$8\frac{3}{8}$	33	$7\frac{1}{4}$	11	$0\frac{3}{4}$	34	9	11	$5\frac{1}{8}$	35	$10\frac{3}{4}$
10	$8\frac{1}{2}$	33	$7\frac{5}{8}-\frac{1}{16}$	11	$0\frac{7}{8}$	34	$9\frac{3}{8}$	11	$5\frac{1}{4}$	35	$11\frac{1}{8}$
10	$8\frac{5}{8}$	33	$8\frac{1}{16}$	11	1	34	$9\frac{3}{4}-\frac{1}{16}$	11	$5\frac{3}{8}$	35	$11\frac{1}{2}-\frac{1}{16}$
10	$8\frac{3}{4}$	33	$8\frac{3}{8}-\frac{1}{16}$	11	$1\frac{1}{8}$	34	$10\frac{1}{8}-\frac{1}{16}$	11	$5\frac{1}{2}$	35	$11\frac{7}{8}-\frac{1}{16}$
10	$8\frac{7}{8}$	33	$8\frac{7}{8}$	11	$1\frac{1}{4}$	34	$10\frac{1}{2}-\frac{1}{16}$	11	$5\frac{5}{8}$	36	$0\frac{1}{4}-\frac{1}{16}$
10	9	33	$9\frac{1}{4}$	11	$1\frac{3}{8}$	34	11	11	$5\frac{3}{4}$	36	$0\frac{5}{8}-\frac{1}{16}$
10	$9\frac{1}{8}$	33	$9\frac{5}{8}$	11	$1\frac{1}{2}$	34	$11\frac{3}{8}$	11	$5\frac{7}{8}$	36	$1\frac{1}{8}$
10	$9\frac{1}{4}$	33	10	11	$1\frac{5}{8}$	34	$11\frac{3}{4}$	11	6	36	$1\frac{1}{2}$
10	$9\frac{3}{8}$	33	$10\frac{3}{8}-\frac{1}{16}$	11	$1\frac{3}{4}$	35	$0\frac{1}{8}$	11	$6\frac{1}{8}$	36	$1\frac{7}{8}$

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	6 $\frac{1}{4}$	36	2 $\frac{1}{4}$ - $\frac{1}{16}$	11	10 $\frac{5}{8}$	37	4 $\frac{1}{16}$	12	3	38	5 $\frac{3}{4}$ - $\frac{1}{16}$
11	6 $\frac{3}{8}$	36	2 $\frac{3}{8}$ - $\frac{1}{16}$	11	10 $\frac{3}{4}$	37	4 $\frac{3}{8}$ - $\frac{1}{16}$	12	3 $\frac{1}{8}$	38	6 $\frac{1}{4}$
11	6 $\frac{1}{2}$	36	3 $\frac{1}{16}$	11	10 $\frac{7}{8}$	37	4 $\frac{3}{4}$ - $\frac{1}{16}$	12	3 $\frac{1}{4}$	38	6 $\frac{5}{8}$
11	6 $\frac{5}{8}$	36	3 $\frac{1}{2}$	11	11	37	5 $\frac{1}{4}$	12	3 $\frac{3}{8}$	38	7
11	6 $\frac{3}{4}$	36	3 $\frac{7}{8}$	11	11 $\frac{1}{8}$	37	5 $\frac{5}{8}$	12	3 $\frac{1}{2}$	38	7 $\frac{3}{8}$
11	6 $\frac{7}{8}$	36	4 $\frac{1}{4}$	11	11 $\frac{1}{4}$	37	6	12	3 $\frac{5}{8}$	38	7 $\frac{3}{4}$
11	7	36	4 $\frac{3}{8}$	11	11 $\frac{3}{8}$	37	6 $\frac{3}{8}$	12	3 $\frac{3}{4}$	38	8 $\frac{1}{8}$
11	7 $\frac{1}{8}$	36	5	11	11 $\frac{1}{2}$	37	6 $\frac{3}{4}$	12	3 $\frac{7}{8}$	38	8 $\frac{1}{2}$ - $\frac{1}{16}$
11	7 $\frac{1}{4}$	36	5 $\frac{3}{8}$ - $\frac{1}{16}$	11	11 $\frac{5}{8}$	37	7 $\frac{1}{8}$ - $\frac{1}{16}$	12	4	38	8 $\frac{7}{8}$ - $\frac{1}{16}$
11	7 $\frac{3}{8}$	36	5 $\frac{3}{4}$ - $\frac{1}{16}$	11	11 $\frac{3}{4}$	37	7 $\frac{1}{2}$ - $\frac{1}{16}$	12	4 $\frac{1}{8}$	38	9 $\frac{1}{4}$ - $\frac{1}{16}$
11	7 $\frac{1}{2}$	36	6 $\frac{1}{4}$	11	11 $\frac{7}{8}$	37	7 $\frac{7}{8}$ - $\frac{1}{16}$	12	4 $\frac{1}{4}$	38	9 $\frac{3}{4}$
11	7 $\frac{5}{8}$	36	6 $\frac{3}{8}$	12	0	37	8 $\frac{3}{8}$	12	4 $\frac{3}{8}$	38	10 $\frac{1}{8}$
11	7 $\frac{3}{4}$	36	7	12	0 $\frac{1}{8}$	37	8 $\frac{3}{4}$	12	4 $\frac{1}{2}$	38	10 $\frac{1}{2}$
11	7 $\frac{7}{8}$	36	7 $\frac{3}{8}$	12	0 $\frac{1}{4}$	37	9 $\frac{1}{8}$	12	4 $\frac{5}{8}$	38	10 $\frac{7}{8}$
11	8	36	7 $\frac{3}{4}$ - $\frac{1}{16}$	12	0 $\frac{3}{8}$	37	9 $\frac{1}{2}$	12	4 $\frac{3}{4}$	38	11 $\frac{1}{4}$
11	8 $\frac{1}{8}$	36	8 $\frac{1}{8}$ - $\frac{1}{16}$	12	0 $\frac{1}{2}$	37	9 $\frac{7}{8}$	12	4 $\frac{7}{8}$	38	11 $\frac{5}{8}$ - $\frac{1}{16}$
11	8 $\frac{1}{4}$	36	8 $\frac{1}{2}$ - $\frac{1}{16}$	12	0 $\frac{5}{8}$	37	10 $\frac{1}{4}$ - $\frac{1}{16}$	12	5	39	0 $\frac{1}{16}$
11	8 $\frac{3}{8}$	36	9	12	0 $\frac{3}{4}$	37	10 $\frac{3}{4}$	12	5 $\frac{1}{8}$	39	0 $\frac{3}{8}$ - $\frac{1}{16}$
11	8 $\frac{1}{2}$	36	9 $\frac{3}{8}$	12	0 $\frac{7}{8}$	37	11 $\frac{1}{8}$	12	5 $\frac{1}{4}$	39	0 $\frac{7}{8}$
11	8 $\frac{5}{8}$	36	9 $\frac{3}{4}$	12	1	37	11 $\frac{1}{2}$	12	5 $\frac{3}{8}$	39	1 $\frac{1}{4}$
11	8 $\frac{3}{4}$	36	10 $\frac{1}{8}$	12	1 $\frac{1}{8}$	37	11 $\frac{7}{8}$ - $\frac{1}{16}$	12	5 $\frac{1}{2}$	39	1 $\frac{5}{8}$
11	8 $\frac{7}{8}$	36	10 $\frac{1}{2}$ - $\frac{1}{16}$	12	1 $\frac{1}{4}$	38	0 $\frac{1}{4}$ - $\frac{1}{16}$	12	5 $\frac{5}{8}$	39	2
11	9	36	10 $\frac{7}{8}$ - $\frac{1}{16}$	12	1 $\frac{3}{8}$	38	0 $\frac{3}{4}$	12	5 $\frac{3}{4}$	39	2 $\frac{3}{8}$ - $\frac{1}{16}$
11	9 $\frac{1}{8}$	36	11 $\frac{1}{4}$ - $\frac{1}{16}$	12	1 $\frac{1}{2}$	38	1 $\frac{1}{8}$	12	5 $\frac{7}{8}$	39	2 $\frac{3}{4}$ - $\frac{1}{16}$
11	9 $\frac{1}{4}$	36	11 $\frac{3}{4}$	12	1 $\frac{5}{8}$	38	1 $\frac{1}{2}$	12	6	39	3 $\frac{1}{4}$
11	9 $\frac{3}{8}$	37	0 $\frac{1}{8}$	12	1 $\frac{3}{4}$	38	1 $\frac{7}{8}$	12	6 $\frac{1}{8}$	39	3 $\frac{5}{8}$
11	9 $\frac{1}{2}$	37	0 $\frac{1}{2}$	12	1 $\frac{7}{8}$	38	2 $\frac{1}{4}$	12	6 $\frac{1}{4}$	39	4
11	9 $\frac{5}{8}$	37	0 $\frac{7}{8}$	12	2	38	2 $\frac{5}{8}$	12	6 $\frac{3}{8}$	39	4 $\frac{3}{8}$ - $\frac{1}{16}$
11	9 $\frac{3}{4}$	37	1 $\frac{1}{4}$ - $\frac{1}{16}$	12	2 $\frac{1}{8}$	38	3	12	6 $\frac{1}{2}$	39	4 $\frac{3}{4}$ - $\frac{1}{16}$
11	9 $\frac{7}{8}$	37	1 $\frac{5}{8}$ - $\frac{1}{16}$	12	2 $\frac{1}{4}$	38	3 $\frac{3}{8}$	12	6 $\frac{5}{8}$	39	5 $\frac{1}{8}$ - $\frac{1}{16}$
11	10	37	2 $\frac{1}{16}$	12	2 $\frac{3}{8}$	38	3 $\frac{3}{4}$ - $\frac{1}{16}$	12	6 $\frac{3}{4}$	39	5 $\frac{1}{2}$ - $\frac{1}{16}$
11	10 $\frac{1}{8}$	37	2 $\frac{3}{8}$ - $\frac{1}{16}$	12	2 $\frac{1}{2}$	38	4 $\frac{1}{8}$ - $\frac{1}{16}$	12	6 $\frac{7}{8}$	39	5 $\frac{7}{8}$ - $\frac{1}{16}$
11	10 $\frac{1}{4}$	37	2 $\frac{7}{8}$	12	2 $\frac{5}{8}$	38	4 $\frac{5}{8}$	12	7	39	6 $\frac{3}{8}$
11	10 $\frac{3}{8}$	37	3 $\frac{1}{4}$	12	2 $\frac{3}{4}$	38	5	12	7 $\frac{1}{8}$	39	6 $\frac{3}{4}$
11	10 $\frac{1}{2}$	37	3 $\frac{5}{8}$	12	2 $\frac{7}{8}$	38	5 $\frac{3}{8}$	12	7 $\frac{1}{4}$	39	7 $\frac{1}{8}$

36 7 3/4 1/16  
73 - 3 1/2 1/8

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$7\frac{3}{8}$	39	$7\frac{1}{2}$	12	9	40	$0\frac{5}{8}$	12	$10\frac{5}{8}$	40	$5\frac{3}{4}$
12	$7\frac{1}{2}$	39	$7\frac{7}{8}-\frac{1}{16}$	12	$9\frac{1}{8}$	40	1	12	$10\frac{3}{4}$	40	$6\frac{1}{8}$
12	$7\frac{5}{8}$	39	$8\frac{1}{4}-\frac{1}{16}$	12	$9\frac{1}{4}$	40	$1\frac{3}{8}-\frac{1}{16}$	12	$10\frac{7}{8}$	40	$6\frac{1}{2}$
12	$7\frac{3}{4}$	39	$8\frac{5}{8}-\frac{1}{16}$	12	$9\frac{3}{8}$	40	$1\frac{3}{4}-\frac{1}{16}$	12	11	40	$6\frac{7}{8}-\frac{1}{16}$
12	$7\frac{7}{8}$	39	$9\frac{1}{8}$	12	$9\frac{1}{2}$	40	$2\frac{1}{8}-\frac{1}{16}$	12	$11\frac{1}{8}$	40	$7\frac{1}{4}-\frac{1}{16}$
12	8	39	$9\frac{1}{2}$	12	$9\frac{5}{8}$	40	$2\frac{1}{2}-\frac{1}{16}$	12	$11\frac{1}{4}$	40	$7\frac{3}{4}$
12	$8\frac{1}{8}$	39	$9\frac{7}{8}$	12	$9\frac{3}{4}$	40	$2\frac{7}{8}-\frac{1}{16}$	12	$11\frac{3}{8}$	40	$8\frac{1}{8}$
12	$8\frac{1}{4}$	39	$10\frac{1}{4}-\frac{1}{16}$	12	$9\frac{7}{8}$	40	$3\frac{3}{8}$	12	$11\frac{1}{2}$	40	$8\frac{1}{2}$
12	$8\frac{3}{8}$	39	$10\frac{5}{8}-\frac{1}{16}$	12	10	40	$3\frac{3}{4}-\frac{1}{16}$	12	$11\frac{5}{8}$	40	$8\frac{7}{8}-\frac{1}{16}$
12	$8\frac{1}{2}$	39	$11\frac{1}{16}$	12	$10\frac{1}{8}$	40	$4\frac{1}{8}-\frac{1}{16}$	12	$11\frac{3}{4}$	40	$9\frac{1}{4}-\frac{1}{16}$
12	$8\frac{5}{8}$	39	$11\frac{3}{8}-\frac{1}{16}$	12	$10\frac{1}{4}$	40	$4\frac{1}{2}-\frac{1}{16}$	12	$11\frac{7}{8}$	40	$9\frac{5}{8}-\frac{1}{16}$
12	$8\frac{3}{4}$	39	$11\frac{3}{4}-\frac{1}{16}$	12	$10\frac{3}{8}$	40	$4\frac{7}{8}-\frac{1}{16}$	13	0	40	$10\frac{1}{16}$
12	$8\frac{7}{8}$	40	$0\frac{1}{4}$	12	$10\frac{1}{2}$	40	$5\frac{1}{4}-\frac{1}{16}$				

TABLE No. 4.

DIAMETERS AND CIRCUMFERENCES OF  
ANGLE-IRON RINGS.

FLANGE OUTSIDE.

# 44 DIAMETERS AND CIRCUMFERENCES OF

## TABLE No. 4.—DIAMETERS AND CIRCUMFERENCES OF ANGLE-IRON RINGS.

### FLANGE OUTSIDE.

RULE.—To the inside diameter add twice the diagonal thickness of the iron at the root, or angle; multiply the sum by 3.1416 for the required length or circumference of angle-iron.

If there is an odd  $\frac{1}{16}$ th inch in the diameter, add together the tabular circumferences of the two diameters that are nearest to it, and divide the sum by 2. The quotient is the circumference required.

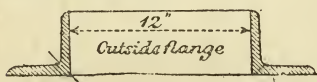


Fig. 38.

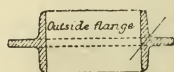


Fig. 39.

### DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
0	8	2	$3\frac{3}{8}-\frac{1}{16}$	0	$10\frac{5}{8}$	2	$11\frac{5}{8}-\frac{1}{16}$	1	$1\frac{1}{4}$	3	$7\frac{7}{8}-\frac{1}{16}$
0	$8\frac{1}{8}$	2	$3\frac{7}{8}$	0	$10\frac{3}{4}$	3	$0-\frac{1}{16}$	1	$1\frac{3}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$
0	$8\frac{1}{4}$	2	$4\frac{1}{4}$	0	$10\frac{7}{8}$	3	$0\frac{1}{2}$	1	$1\frac{1}{2}$	3	$8\frac{3}{4}$
0	$8\frac{3}{8}$	2	$4\frac{5}{8}$	0	11	3	$0\frac{7}{8}$	1	$1\frac{5}{8}$	3	$9\frac{1}{8}$
0	$8\frac{1}{2}$	2	$5\frac{1}{16}$	0	$11\frac{1}{8}$	3	$1\frac{1}{4}-\frac{1}{16}$	1	$1\frac{3}{4}$	3	$9\frac{1}{2}-\frac{1}{16}$
0	$8\frac{5}{8}$	2	$5\frac{3}{8}-\frac{1}{16}$	0	$11\frac{1}{4}$	3	$1\frac{5}{8}-\frac{1}{16}$	1	$1\frac{7}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$
0	$8\frac{3}{4}$	2	$5\frac{3}{4}-\frac{1}{16}$	0	$11\frac{3}{8}$	3	$2-\frac{1}{16}$	1	2	3	$10\frac{1}{4}-\frac{1}{16}$
0	$8\frac{7}{8}$	2	$6\frac{1}{8}-\frac{1}{16}$	0	$11\frac{1}{2}$	3	$2\frac{3}{8}-\frac{1}{16}$	1	$2\frac{1}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$
0	9	2	$6\frac{5}{8}$	0	$11\frac{5}{8}$	3	$2\frac{3}{4}-\frac{1}{16}$	1	$2\frac{1}{4}$	3	$11\frac{1}{16}$
0	$9\frac{1}{8}$	2	7	0	$11\frac{3}{4}$	3	$3\frac{1}{4}$	1	$2\frac{3}{8}$	3	$11\frac{1}{2}$
0	$9\frac{1}{4}$	2	$7\frac{3}{8}$	0	$11\frac{7}{8}$	3	$3\frac{5}{8}$	1	$2\frac{1}{2}$	3	$11\frac{7}{8}$
0	$9\frac{3}{8}$	2	$7\frac{3}{4}-\frac{1}{16}$	1	0	3	$4\frac{1}{16}$	1	$2\frac{5}{8}$	4	$0\frac{1}{4}$
0	$9\frac{1}{2}$	2	$8\frac{1}{8}-\frac{1}{16}$	1	$0\frac{1}{8}$	3	$4\frac{3}{8}-\frac{1}{16}$	1	$2\frac{3}{4}$	4	$0\frac{5}{8}-\frac{1}{16}$
0	$9\frac{5}{8}$	2	$8\frac{1}{2}-\frac{1}{16}$	1	$0\frac{1}{4}$	3	$4\frac{3}{4}-\frac{1}{16}$	1	$2\frac{7}{8}$	4	$1\frac{1}{16}$
0	$9\frac{3}{4}$	2	$8\frac{5}{8}-\frac{1}{16}$	1	$0\frac{3}{8}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	3	4	$1\frac{3}{8}-\frac{1}{16}$
0	$9\frac{7}{8}$	2	$9\frac{1}{4}-\frac{1}{16}$	1	$0\frac{1}{2}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$3\frac{1}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$
0	10	2	$9\frac{3}{4}$	1	$0\frac{5}{8}$	3	6	1	$3\frac{1}{4}$	4	$2\frac{1}{4}$
0	$10\frac{1}{8}$	2	$10\frac{1}{4}$	1	$0\frac{3}{4}$	3	$6\frac{3}{8}$	1	$3\frac{3}{8}$	4	$2\frac{5}{8}$
0	$10\frac{1}{4}$	2	$10\frac{1}{2}-\frac{1}{16}$	1	$0\frac{7}{8}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	$3\frac{1}{2}$	4	$3\frac{1}{16}$
0	$10\frac{3}{8}$	2	$10\frac{7}{8}-\frac{1}{16}$	1	1	3	$7\frac{1}{8}-\frac{1}{16}$	1	$3\frac{5}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$
0	$10\frac{1}{2}$	2	$11\frac{1}{4}-\frac{1}{16}$	1	$1\frac{1}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$3\frac{3}{4}$	4	$3\frac{3}{4}-\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE OUTSIDE). 45

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$3\frac{7}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$7\frac{1}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	1	$10\frac{5}{8}$	6	$1\frac{3}{8}$
1	4	4	$4\frac{1}{2}-\frac{1}{16}$	1	$7\frac{3}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	1	$10\frac{3}{4}$	6	$1\frac{3}{4}-\frac{1}{16}$
1	$4\frac{1}{8}$	4	5	1	$7\frac{1}{2}$	5	$3\frac{1}{2}-\frac{1}{16}$	1	$10\frac{7}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	$4\frac{1}{4}$	4	$5\frac{3}{8}$	1	$7\frac{5}{8}$	5	4	1	11	6	$2\frac{1}{2}-\frac{1}{16}$
1	$4\frac{3}{8}$	4	$5\frac{3}{4}$	1	$7\frac{3}{4}$	5	$4\frac{3}{8}$	1	$11\frac{1}{8}$	6	3
1	$4\frac{1}{2}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$7\frac{7}{8}$	5	$4\frac{3}{4}$	1	$11\frac{1}{4}$	6	$2\frac{3}{8}$
1	$4\frac{5}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	8	5	$5\frac{1}{8}-\frac{1}{16}$	1	$11\frac{3}{8}$	6	$3\frac{3}{4}$
1	$4\frac{3}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$8\frac{1}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	1	$11\frac{1}{2}$	6	$4\frac{1}{8}$
1	$4\frac{7}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$8\frac{1}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$	1	$11\frac{3}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$
1	5	4	$7\frac{3}{4}$	1	$8\frac{3}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	1	$11\frac{3}{4}$	6	$4\frac{7}{8}-\frac{1}{16}$
1	$5\frac{1}{8}$	4	$8\frac{1}{8}$	1	$8\frac{1}{2}$	5	$6\frac{3}{4}$	1	$11\frac{7}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	$5\frac{1}{4}$	4	$8\frac{1}{2}$	1	$8\frac{5}{8}$	5	$7\frac{1}{8}$	2	0	6	$5\frac{3}{4}$
1	$5\frac{3}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$8\frac{3}{4}$	5	$7\frac{1}{2}$	2	$0\frac{1}{8}$	6	$6\frac{1}{8}$
1	$5\frac{1}{2}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$8\frac{7}{8}$	5	$7\frac{7}{8}$	2	$0\frac{1}{4}$	6	$6\frac{1}{2}$
1	$5\frac{5}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	1	9	5	$8\frac{1}{4}-\frac{1}{16}$	2	$0\frac{3}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$5\frac{3}{4}$	4	$10\frac{1}{16}$	1	$9\frac{1}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$0\frac{1}{2}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	$5\frac{7}{8}$	4	$10\frac{1}{2}$	1	$9\frac{1}{4}$	5	$9\frac{1}{16}$	2	$0\frac{5}{8}$	6	$7\frac{3}{4}$
1	6	4	$10\frac{7}{8}$	1	$9\frac{3}{8}$	5	$9\frac{1}{2}$	2	$0\frac{3}{4}$	6	$8\frac{1}{8}$
1	$6\frac{1}{8}$	4	$11\frac{1}{4}$	1	$9\frac{1}{2}$	5	$9\frac{7}{8}$	2	$0\frac{7}{8}$	6	$8\frac{1}{2}$
1	$6\frac{1}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$	1	$9\frac{5}{8}$	5	$10\frac{1}{4}$	2	1	6	$8\frac{7}{8}$
1	$6\frac{3}{8}$	5	$0\frac{1}{16}$	1	$9\frac{3}{4}$	5	$10\frac{5}{8}$	2	$1\frac{1}{8}$	6	$9\frac{1}{4}$
1	$6\frac{1}{2}$	5	$0\frac{3}{8}-\frac{1}{16}$	1	$9\frac{7}{8}$	5	$11\frac{1}{16}$	2	$1\frac{1}{4}$	6	$9\frac{5}{8}-\frac{1}{16}$
1	$6\frac{5}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	1	10	5	$11\frac{3}{8}-\frac{1}{16}$	2	$1\frac{3}{8}$	6	$10\frac{1}{16}$
1	$6\frac{3}{4}$	5	$1\frac{1}{4}$	1	$10\frac{1}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	$1\frac{1}{2}$	6	$10\frac{3}{8}-\frac{1}{16}$
1	$6\frac{7}{8}$	5	$1\frac{5}{8}$	1	$10\frac{1}{4}$	6	$0\frac{1}{4}$	2	$1\frac{5}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	7	5	2	1	$10\frac{3}{8}$	6	$0\frac{5}{8}$	2	$1\frac{3}{4}$	6	$11\frac{1}{4}$
1	$7\frac{1}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	1	$10\frac{1}{2}$	6	1	2	$1\frac{7}{8}$	6	$11\frac{5}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	$4\frac{3}{4}-\frac{1}{16}$	1	$0\frac{3}{8}$	3	6	1	$0\frac{3}{4}$	3	$7\frac{1}{8}-\frac{1}{16}$
1	$0\frac{1}{8}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	$0\frac{1}{2}$	3	$6\frac{3}{8}$	1	$0\frac{7}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$
1	$0\frac{1}{4}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$0\frac{5}{8}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	1	3	$7\frac{7}{8}-\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$1\frac{1}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$5\frac{1}{2}$	4	$10\frac{1}{16}$	1	$9\frac{7}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$1\frac{1}{4}$	3	$8\frac{3}{4}$	1	$5\frac{5}{8}$	4	$10\frac{1}{2}$	1	10	6	$0\frac{1}{4}$
1	$1\frac{3}{8}$	3	$9\frac{1}{8}$	1	$5\frac{3}{4}$	4	$10\frac{7}{8}$	1	$10\frac{1}{8}$	6	$0\frac{5}{8}$
1	$1\frac{1}{2}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$5\frac{7}{8}$	4	$11\frac{1}{4}$	1	$10\frac{1}{4}$	6	1
1	$1\frac{5}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	6	4	$11\frac{5}{8}-\frac{1}{16}$	1	$10\frac{3}{8}$	6	$1\frac{3}{8}$
1	$1\frac{3}{4}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$6\frac{1}{8}$	5	$0\frac{1}{16}$	1	$10\frac{1}{2}$	6	$1\frac{1}{4}-\frac{1}{16}$
1	$1\frac{7}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$6\frac{1}{4}$	5	$0\frac{3}{8}-\frac{1}{16}$	1	$10\frac{5}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	2	3	$11\frac{1}{16}$	1	$6\frac{3}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	1	$10\frac{3}{4}$	6	$2\frac{1}{2}-\frac{1}{16}$
1	$2\frac{1}{8}$	3	$11\frac{1}{2}$	1	$6\frac{1}{2}$	5	$1\frac{1}{4}$	1	$10\frac{7}{8}$	6	3
1	$2\frac{1}{4}$	3	$11\frac{7}{8}$	1	$6\frac{5}{8}$	5	$1\frac{5}{8}$	1	11	6	$3\frac{3}{8}$
1	$2\frac{3}{8}$	4	$0\frac{1}{4}$	1	$6\frac{3}{4}$	5	2	1	$11\frac{1}{8}$	6	$3\frac{3}{4}$
1	$2\frac{1}{2}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$6\frac{7}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	1	$11\frac{1}{4}$	6	$4\frac{1}{8}$
1	$2\frac{5}{8}$	4	$1\frac{1}{16}$	1	7	5	$2\frac{3}{4}-\frac{1}{16}$	1	$11\frac{3}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$
1	$2\frac{3}{4}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$7\frac{1}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{2}$	6	$4\frac{7}{8}-\frac{1}{16}$
1	$2\frac{7}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$7\frac{1}{4}$	5	$3\frac{1}{2}-\frac{1}{16}$	1	$11\frac{5}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	3	4	$2\frac{1}{4}$	1	$7\frac{3}{8}$	5	4	1	$11\frac{3}{4}$	6	$5\frac{3}{4}$
1	$3\frac{1}{8}$	4	$2\frac{5}{8}$	1	$7\frac{1}{2}$	5	$4\frac{3}{8}$	1	$11\frac{7}{8}$	6	$6\frac{1}{8}$
1	$3\frac{1}{4}$	4	$3\frac{1}{16}$	1	$7\frac{5}{8}$	5	$4\frac{3}{4}$	2	0	6	$6\frac{1}{2}$
1	$3\frac{3}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$7\frac{3}{4}$	5	$5\frac{1}{8}-\frac{1}{16}$	2	$0\frac{1}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$3\frac{1}{2}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$7\frac{7}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	$0\frac{1}{4}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	$3\frac{5}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	8	5	$5\frac{7}{8}-\frac{1}{16}$	2	$0\frac{3}{8}$	6	$7\frac{3}{4}$
1	$3\frac{3}{4}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$8\frac{1}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{2}$	6	$8\frac{1}{8}$
1	$3\frac{7}{8}$	4	5	1	$8\frac{1}{4}$	5	$6\frac{3}{4}$	2	$0\frac{5}{8}$	6	$8\frac{1}{2}$
1	4	4	$5\frac{3}{8}$	1	$8\frac{3}{8}$	5	$7\frac{1}{8}$	2	$0\frac{3}{4}$	6	$8\frac{7}{8}$
1	$4\frac{1}{8}$	4	$5\frac{3}{4}$	1	$8\frac{1}{2}$	5	$7\frac{1}{2}$	2	$0\frac{7}{8}$	6	$9\frac{1}{4}$
1	$4\frac{1}{4}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$8\frac{5}{8}$	5	$7\frac{7}{8}$	2	1	6	$9\frac{5}{8}-\frac{1}{16}$
1	$4\frac{3}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$8\frac{3}{4}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$1\frac{1}{8}$	6	$10\frac{1}{16}$
1	$4\frac{1}{2}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$8\frac{7}{8}$	5	$8\frac{3}{8}-\frac{1}{16}$	2	$1\frac{1}{4}$	6	$10\frac{3}{8}-\frac{1}{16}$
1	$4\frac{5}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	9	5	$9\frac{1}{16}$	2	$1\frac{3}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	$4\frac{3}{4}$	4	$7\frac{3}{4}$	1	$9\frac{1}{8}$	5	$9\frac{1}{2}$	2	$1\frac{1}{2}$	6	$11\frac{1}{4}$
1	$4\frac{7}{8}$	4	$8\frac{1}{8}$	1	$9\frac{1}{4}$	5	$9\frac{7}{8}$	2	$1\frac{5}{8}$	6	$11\frac{5}{8}$
1	5	4	$8\frac{1}{2}$	1	$9\frac{3}{8}$	5	$10\frac{1}{4}$	2	$1\frac{3}{4}$	7	0
1	$5\frac{1}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$9\frac{1}{2}$	5	$10\frac{5}{8}$	2	$1\frac{7}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$
1	$5\frac{1}{4}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$9\frac{5}{8}$	5	$11\frac{1}{16}$	2	2	7	$0\frac{3}{4}-\frac{1}{16}$
1	$5\frac{3}{8}$	4	$9\frac{3}{8}-\frac{1}{16}$	1	$9\frac{3}{4}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$2\frac{1}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 47

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	2 $\frac{1}{4}$	7	1 $\frac{1}{2}$ - $\frac{1}{16}$	2	6 $\frac{5}{8}$	8	3 $\frac{3}{8}$	2	11	9	5- $\frac{1}{16}$
2	2 $\frac{3}{8}$	7	2	2	6 $\frac{3}{4}$	8	3 $\frac{3}{4}$	2	11 $\frac{1}{8}$	9	5 $\frac{1}{2}$
2	2 $\frac{1}{2}$	7	2 $\frac{3}{8}$	2	6 $\frac{7}{8}$	8	4 $\frac{1}{8}$	2	11 $\frac{1}{4}$	9	5 $\frac{7}{8}$
2	2 $\frac{5}{8}$	7	2 $\frac{3}{4}$	2	7	8	4 $\frac{1}{2}$	2	11 $\frac{3}{8}$	9	6 $\frac{1}{4}$ - $\frac{1}{16}$
2	2 $\frac{3}{4}$	7	3 $\frac{1}{8}$	2	7 $\frac{1}{8}$	8	4 $\frac{7}{8}$	2	11 $\frac{1}{2}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$
2	2 $\frac{7}{8}$	7	3 $\frac{1}{2}$ - $\frac{1}{16}$	2	7 $\frac{1}{4}$	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	2	11 $\frac{5}{8}$	9	7 $\frac{1}{16}$
2	3	7	3 $\frac{3}{8}$ - $\frac{1}{16}$	2	7 $\frac{3}{8}$	8	5 $\frac{5}{8}$ - $\frac{1}{16}$	2	11 $\frac{3}{4}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$
2	3 $\frac{1}{8}$	7	4 $\frac{1}{4}$ - $\frac{1}{16}$	2	7 $\frac{1}{2}$	8	6 $\frac{1}{16}$	2	11 $\frac{7}{8}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$
2	3 $\frac{1}{4}$	7	4 $\frac{3}{4}$	2	7 $\frac{5}{8}$	8	6 $\frac{1}{2}$	3	0	9	8 $\frac{1}{8}$ - $\frac{1}{16}$
2	3 $\frac{3}{8}$	7	5 $\frac{1}{8}$	2	7 $\frac{3}{4}$	8	6 $\frac{7}{8}$	3	0 $\frac{1}{8}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$
2	3 $\frac{1}{2}$	7	5 $\frac{1}{2}$	2	7 $\frac{7}{8}$	8	7 $\frac{1}{4}$ - $\frac{1}{16}$	3	0 $\frac{1}{4}$	9	9
2	3 $\frac{5}{8}$	7	5 $\frac{7}{8}$	2	8	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	3	0 $\frac{3}{8}$	9	9 $\frac{3}{8}$
2	3 $\frac{3}{4}$	7	6 $\frac{1}{4}$ - $\frac{1}{16}$	2	8 $\frac{1}{8}$	8	8 $\frac{1}{16}$	3	0 $\frac{1}{2}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$
2	3 $\frac{7}{8}$	7	6 $\frac{3}{8}$ - $\frac{1}{16}$	2	8 $\frac{1}{4}$	8	8 $\frac{1}{2}$	3	0 $\frac{5}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$
2	4	7	7 $\frac{1}{16}$	2	8 $\frac{3}{8}$	8	8 $\frac{7}{8}$	3	0 $\frac{3}{4}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$
2	4 $\frac{1}{8}$	7	7 $\frac{3}{8}$ - $\frac{1}{16}$	2	8 $\frac{1}{2}$	8	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	0 $\frac{7}{8}$	9	11
2	4 $\frac{1}{4}$	7	7 $\frac{7}{8}$	2	8 $\frac{5}{8}$	8	9 $\frac{1}{2}$ - $\frac{1}{16}$	3	1	9	11 $\frac{3}{8}$
2	4 $\frac{3}{8}$	7	8 $\frac{1}{4}$	2	8 $\frac{3}{4}$	8	10	3	1 $\frac{1}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$
2	4 $\frac{1}{2}$	7	8 $\frac{5}{8}$	2	8 $\frac{7}{8}$	8	10 $\frac{3}{8}$	3	1 $\frac{1}{4}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$
2	4 $\frac{5}{8}$	7	9 $\frac{1}{16}$	2	9	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	1 $\frac{3}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$
2	4 $\frac{3}{4}$	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	2	9 $\frac{1}{8}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{1}{2}$	10	1
2	4 $\frac{7}{8}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$	2	9 $\frac{1}{4}$	8	11 $\frac{5}{8}$	3	1 $\frac{5}{8}$	10	1 $\frac{3}{8}$
2	5	7	10 $\frac{1}{4}$	2	9 $\frac{3}{8}$	9	0	3	1 $\frac{3}{4}$	10	1 $\frac{3}{4}$
2	5 $\frac{1}{8}$	7	10 $\frac{5}{8}$	2	9 $\frac{1}{2}$	9	0 $\frac{3}{8}$	3	1 $\frac{7}{8}$	10	2 $\frac{1}{8}$
2	5 $\frac{1}{4}$	7	11	2	9 $\frac{5}{8}$	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	2	10	2 $\frac{1}{2}$
2	5 $\frac{3}{8}$	7	11 $\frac{3}{8}$	2	9 $\frac{3}{4}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	2 $\frac{1}{8}$	10	2 $\frac{7}{8}$
2	5 $\frac{1}{2}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	2	9 $\frac{7}{8}$	9	1 $\frac{5}{8}$	3	2 $\frac{1}{4}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$
2	5 $\frac{5}{8}$	8	1 $\frac{1}{8}$ - $\frac{1}{16}$	2	10	9	2	3	2 $\frac{3}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$
2	5 $\frac{3}{4}$	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	2	10 $\frac{1}{8}$	9	2 $\frac{3}{8}$	3	2 $\frac{1}{2}$	10	4 $\frac{1}{8}$
2	5 $\frac{7}{8}$	8	1	2	10 $\frac{1}{4}$	9	2 $\frac{3}{4}$	3	2 $\frac{5}{8}$	10	4 $\frac{1}{2}$
2	6	8	1 $\frac{3}{8}$	2	10 $\frac{3}{8}$	9	3 $\frac{1}{8}$	3	2 $\frac{3}{4}$	10	4 $\frac{7}{8}$
2	6 $\frac{1}{8}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$	2	10 $\frac{1}{2}$	9	3 $\frac{1}{2}$	3	2 $\frac{7}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$
2	6 $\frac{1}{4}$	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	2	10 $\frac{5}{8}$	9	3 $\frac{7}{8}$	3	3	10	5 $\frac{5}{8}$ - $\frac{1}{16}$
2	6 $\frac{3}{8}$	8	2 $\frac{1}{2}$ - $\frac{1}{16}$	2	10 $\frac{3}{4}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	3 $\frac{1}{8}$	10	6 $\frac{1}{16}$
2	6 $\frac{1}{2}$	8	3	2	10 $\frac{7}{8}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	3 $\frac{1}{4}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$3\frac{3}{8}$	10	$6\frac{3}{4}-\frac{1}{16}$	3	$7\frac{3}{4}$	11	$8\frac{1}{2}-\frac{1}{16}$	4	$0\frac{1}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$
3	$3\frac{1}{2}$	10	$7\frac{1}{8}-\frac{1}{16}$	3	$7\frac{7}{8}$	11	9	4	$0\frac{1}{4}$	12	$10\frac{5}{8}-\frac{1}{16}$
3	$3\frac{5}{8}$	10	$7\frac{5}{8}$	3	8	11	$9\frac{3}{8}$	4	$0\frac{3}{8}$	12	$11\frac{1}{16}$
3	$3\frac{3}{4}$	10	8	3	$8\frac{1}{8}$	11	$9\frac{3}{4}-\frac{1}{16}$	4	$0\frac{1}{2}$	12	$11\frac{1}{2}$
3	$3\frac{7}{8}$	10	$8\frac{3}{8}$	3	$8\frac{1}{4}$	11	$10\frac{1}{8}-\frac{1}{16}$	4	$0\frac{5}{8}$	12	$11\frac{7}{8}$
3	4	10	$8\frac{3}{4}-\frac{1}{16}$	3	$8\frac{3}{8}$	11	$10\frac{1}{2}-\frac{1}{16}$	4	$0\frac{3}{4}$	13	$0\frac{1}{4}-\frac{1}{16}$
3	$4\frac{1}{8}$	10	$9\frac{1}{8}-\frac{1}{16}$	3	$8\frac{1}{2}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	$0\frac{7}{8}$	13	$0\frac{5}{8}-\frac{1}{16}$
3	$4\frac{1}{4}$	10	$9\frac{5}{8}$	3	$8\frac{5}{8}$	11	$11\frac{1}{4}-\frac{1}{16}$	4	1	13	$1\frac{1}{16}$
3	$4\frac{3}{8}$	10	10	3	$8\frac{3}{4}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{8}$	13	$1\frac{1}{2}$
3	$4\frac{1}{2}$	10	$10\frac{3}{8}$	3	$8\frac{7}{8}$	12	$0\frac{1}{16}$	4	$1\frac{1}{4}$	13	$1\frac{7}{8}$
3	$4\frac{5}{8}$	10	$10\frac{3}{4}-\frac{1}{16}$	3	9	12	$0\frac{1}{2}$	4	$1\frac{3}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$
3	$4\frac{3}{4}$	10	$11\frac{1}{8}-\frac{1}{16}$	3	$9\frac{1}{8}$	12	$0\frac{7}{8}$	4	$1\frac{1}{2}$	13	$2\frac{5}{8}-\frac{1}{16}$
3	$4\frac{7}{8}$	10	$11\frac{1}{2}-\frac{1}{16}$	3	$9\frac{1}{4}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	$1\frac{5}{8}$	13	$3\frac{1}{16}$
3	5	10	$11\frac{7}{8}$	3	$9\frac{3}{8}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	$1\frac{3}{4}$	13	$3\frac{3}{8}-\frac{1}{16}$
3	$5\frac{1}{8}$	11	$0\frac{1}{4}-\frac{1}{16}$	3	$9\frac{1}{2}$	12	$2\frac{1}{16}$	4	$1\frac{7}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$
3	$5\frac{1}{4}$	11	$0\frac{5}{8}-\frac{1}{16}$	3	$9\frac{5}{8}$	12	$2\frac{1}{2}$	4	2	13	$4\frac{1}{8}-\frac{1}{16}$
3	$5\frac{3}{8}$	11	$1\frac{1}{16}$	3	$9\frac{3}{4}$	12	$2\frac{7}{8}$	4	$2\frac{1}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$
3	$5\frac{1}{2}$	11	$1\frac{1}{2}$	3	$9\frac{7}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	$2\frac{1}{4}$	13	5
3	$5\frac{5}{8}$	11	$1\frac{7}{8}$	3	10	12	$3\frac{5}{8}-\frac{1}{16}$	4	$2\frac{3}{8}$	13	$5\frac{3}{8}$
3	$5\frac{3}{4}$	11	$2\frac{1}{4}-\frac{1}{16}$	3	$10\frac{1}{8}$	12	$4\frac{1}{16}$	4	$2\frac{1}{2}$	13	$5\frac{3}{4}-\frac{1}{16}$
3	$5\frac{7}{8}$	11	$2\frac{5}{8}-\frac{1}{16}$	3	$10\frac{1}{4}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$2\frac{5}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$
3	6	11	$3\frac{1}{16}$	3	$10\frac{3}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	$2\frac{3}{4}$	13	$6\frac{1}{2}-\frac{1}{16}$
3	$6\frac{1}{8}$	11	$3\frac{1}{2}$	3	$10\frac{1}{2}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$2\frac{7}{8}$	13	7
3	$6\frac{1}{4}$	11	$3\frac{7}{8}$	3	$10\frac{5}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	3	13	$7\frac{3}{8}$
3	$6\frac{3}{8}$	11	$4\frac{1}{4}-\frac{1}{16}$	3	$10\frac{3}{4}$	12	6	4	$3\frac{1}{8}$	13	$7\frac{3}{4}$
3	$6\frac{1}{2}$	11	$4\frac{5}{8}-\frac{1}{16}$	3	$10\frac{7}{8}$	12	$6\frac{3}{8}$	4	$3\frac{1}{4}$	13	$8\frac{1}{8}$
3	$6\frac{5}{8}$	11	$5\frac{1}{16}$	3	11	12	$6\frac{3}{4}-\frac{1}{16}$	4	$3\frac{3}{8}$	13	$8\frac{1}{2}$
3	$6\frac{3}{4}$	11	$5\frac{3}{8}-\frac{1}{16}$	3	$11\frac{1}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$3\frac{1}{2}$	13	$8\frac{7}{8}$
3	$6\frac{7}{8}$	11	$5\frac{3}{4}-\frac{1}{16}$	3	$11\frac{1}{4}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	$3\frac{5}{8}$	13	$9\frac{1}{4}-\frac{1}{16}$
3	7	11	$6\frac{1}{8}-\frac{1}{16}$	3	$11\frac{3}{8}$	12	8	4	$3\frac{3}{4}$	13	$9\frac{5}{8}-\frac{1}{16}$
3	$7\frac{1}{8}$	11	$6\frac{1}{2}-\frac{1}{16}$	3	$11\frac{1}{2}$	12	$8\frac{3}{8}$	4	$3\frac{7}{8}$	13	$10\frac{1}{16}$
3	$7\frac{1}{4}$	11	7	3	$11\frac{5}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	4	13	$10\frac{1}{2}$
3	$7\frac{3}{8}$	11	$7\frac{3}{8}$	3	$11\frac{3}{4}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	$4\frac{1}{8}$	13	$10\frac{7}{8}$
3	$7\frac{1}{2}$	11	$7\frac{3}{4}-\frac{1}{16}$	3	$11\frac{7}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	$4\frac{1}{4}$	13	$11\frac{1}{4}-\frac{1}{16}$
3	$7\frac{5}{8}$	11	$8\frac{1}{8}-\frac{1}{16}$	4	0	12	$9\frac{7}{8}$	4	$4\frac{3}{8}$	13	$11\frac{5}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE).

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	4 $\frac{1}{2}$	14	0 $\frac{1}{16}$	4	7	14	7 $\frac{7}{8}$	4	9 $\frac{1}{2}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$
4	4 $\frac{5}{8}$	14	0 $\frac{1}{2}$	4	7 $\frac{1}{8}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$	4	9 $\frac{5}{8}$	15	4 $\frac{1}{8}$ - $\frac{1}{16}$
4	4 $\frac{3}{4}$	14	0 $\frac{7}{8}$	4	7 $\frac{1}{4}$	14	8 $\frac{5}{8}$ - $\frac{1}{16}$	4	9 $\frac{3}{4}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$
4	4 $\frac{7}{8}$	14	1 $\frac{1}{4}$	4	7 $\frac{3}{8}$	14	9 $\frac{1}{8}$	4	9 $\frac{7}{8}$	15	5
4	5	14	1 $\frac{5}{8}$	4	7 $\frac{1}{2}$	14	9 $\frac{1}{2}$	4	10	15	5 $\frac{3}{8}$
4	5 $\frac{1}{8}$	14	2	4	7 $\frac{5}{8}$	14	9 $\frac{7}{8}$	4	10 $\frac{1}{8}$	15	5 $\frac{3}{4}$
4	5 $\frac{1}{4}$	14	2 $\frac{3}{8}$	4	7 $\frac{3}{4}$	14	10 $\frac{1}{4}$	4	10 $\frac{1}{4}$	15	6 $\frac{1}{8}$
4	5 $\frac{3}{8}$	14	2 $\frac{3}{4}$ - $\frac{1}{16}$	4	7 $\frac{7}{8}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$	4	10 $\frac{3}{8}$	15	6 $\frac{1}{2}$
4	5 $\frac{1}{2}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$	4	8	14	11 $\frac{1}{8}$	4	10 $\frac{1}{2}$	15	6 $\frac{7}{8}$
4	5 $\frac{5}{8}$	14	3 $\frac{1}{2}$ - $\frac{1}{16}$	4	8 $\frac{1}{8}$	14	11 $\frac{1}{2}$	4	10 $\frac{5}{8}$	15	7 $\frac{1}{4}$ - $\frac{1}{16}$
4	5 $\frac{3}{4}$	14	4	4	8 $\frac{1}{4}$	14	11 $\frac{7}{8}$	4	10 $\frac{3}{4}$	15	7 $\frac{5}{8}$ - $\frac{1}{16}$
4	5 $\frac{7}{8}$	14	4 $\frac{3}{8}$	4	8 $\frac{3}{8}$	15	0 $\frac{1}{4}$	4	10 $\frac{7}{8}$	15	8 $\frac{1}{8}$
4	6	14	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	8 $\frac{1}{2}$	15	0 $\frac{5}{8}$	4	11	15	8 $\frac{1}{2}$
4	6 $\frac{1}{8}$	14	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	8 $\frac{5}{8}$	15	1	4	11 $\frac{1}{8}$	15	8 $\frac{1}{4}$
4	6 $\frac{1}{4}$	14	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	8 $\frac{3}{4}$	15	1 $\frac{3}{8}$	4	11 $\frac{1}{4}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$
4	6 $\frac{3}{8}$	14	6	4	8 $\frac{7}{8}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$	4	11 $\frac{3}{8}$	15	9 $\frac{5}{8}$ - $\frac{1}{16}$
4	6 $\frac{1}{2}$	14	6 $\frac{3}{8}$	4	9	15	2 $\frac{1}{8}$ - $\frac{1}{16}$	4	11 $\frac{1}{2}$	15	10 $\frac{1}{16}$
4	6 $\frac{5}{8}$	14	6 $\frac{3}{4}$	4	9 $\frac{1}{8}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$	4	11 $\frac{5}{8}$	15	10 $\frac{1}{2}$
4	6 $\frac{3}{4}$	14	7 $\frac{1}{8}$	4	9 $\frac{1}{4}$	15	3	4	11 $\frac{3}{4}$	15	10 $\frac{7}{8}$
4	6 $\frac{7}{8}$	14	7 $\frac{1}{2}$	4	9 $\frac{3}{8}$	15	3 $\frac{3}{8}$	4	11 $\frac{7}{8}$	15	11 $\frac{1}{4}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	5 $\frac{1}{2}$ - $\frac{1}{16}$	1	1	3	8 $\frac{3}{4}$	1	2	3	11 $\frac{7}{8}$
1	0 $\frac{1}{8}$	3	6	1	1 $\frac{1}{8}$	3	9 $\frac{1}{8}$	1	2 $\frac{1}{8}$	4	0 $\frac{1}{4}$
1	0 $\frac{1}{4}$	3	6 $\frac{3}{8}$	1	1 $\frac{1}{4}$	3	9 $\frac{1}{2}$ - $\frac{1}{16}$	1	2 $\frac{1}{4}$	4	0 $\frac{5}{8}$ - $\frac{1}{16}$
1	0 $\frac{3}{8}$	3	6 $\frac{3}{4}$ - $\frac{1}{16}$	1	1 $\frac{3}{8}$	3	9 $\frac{7}{8}$ - $\frac{1}{16}$	1	2 $\frac{3}{8}$	4	1 $\frac{1}{16}$
1	0 $\frac{1}{2}$	3	7 $\frac{1}{8}$ - $\frac{1}{16}$	1	1 $\frac{1}{2}$	3	10 $\frac{1}{4}$ - $\frac{1}{16}$	1	2 $\frac{1}{2}$	4	1 $\frac{3}{8}$ - $\frac{1}{16}$
1	0 $\frac{5}{8}$	3	7 $\frac{1}{2}$ - $\frac{1}{4}$	1	1 $\frac{5}{8}$	3	10 $\frac{5}{8}$ - $\frac{1}{16}$	1	2 $\frac{5}{8}$	4	1 $\frac{3}{4}$ - $\frac{1}{16}$
1	0 $\frac{3}{4}$	3	7 $\frac{7}{8}$ - $\frac{1}{16}$	1	1 $\frac{3}{4}$	3	11 $\frac{1}{16}$	1	2 $\frac{3}{4}$	4	2 $\frac{1}{4}$
1	0 $\frac{7}{8}$	3	8 $\frac{1}{4}$ - $\frac{1}{16}$	1	1 $\frac{7}{8}$	3	11 $\frac{1}{2}$	1	2 $\frac{7}{8}$	4	2 $\frac{5}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	3	4	$3\frac{1}{16}$	1	$7\frac{3}{8}$	5	$4\frac{3}{4}$	1	$11\frac{3}{4}$	6	$6\frac{1}{2}$
1	$3\frac{1}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$7\frac{1}{2}$	5	$5\frac{1}{8}-\frac{1}{16}$	1	$11\frac{7}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$3\frac{1}{4}$	4	$3\frac{1}{2}-\frac{1}{16}$	1	$7\frac{3}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	0	6	$7\frac{1}{4}-\frac{1}{16}$
1	$3\frac{3}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$7\frac{3}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	$0\frac{1}{8}$	6	$7\frac{3}{4}$
1	$3\frac{1}{2}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$7\frac{7}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{4}$	6	$8\frac{1}{8}$
1	$3\frac{5}{8}$	4	5	1	8	5	$6\frac{3}{4}$	2	$0\frac{3}{8}$	6	$8\frac{1}{2}$
1	$3\frac{3}{4}$	4	$5\frac{3}{8}$	1	$8\frac{1}{8}$	5	$7\frac{1}{8}$	2	$0\frac{1}{2}$	6	$8\frac{7}{8}$
1	$3\frac{7}{8}$	4	$5\frac{3}{4}$	1	$8\frac{1}{4}$	5	$7\frac{1}{2}$	2	$0\frac{5}{8}$	6	$9\frac{1}{4}$
1	4	4	$6\frac{1}{8}-\frac{1}{16}$	1	$8\frac{3}{8}$	5	$7\frac{7}{8}$	2	$0\frac{3}{4}$	6	$9\frac{5}{8}-\frac{1}{16}$
1	$4\frac{1}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$8\frac{1}{2}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$0\frac{7}{8}$	6	$10\frac{1}{16}$
1	$4\frac{1}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$8\frac{5}{8}$	5	$8\frac{3}{8}-\frac{1}{16}$	2	1	6	$10\frac{3}{8}-\frac{1}{16}$
1	$4\frac{3}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$8\frac{3}{4}$	5	$9\frac{1}{16}$	2	$1\frac{1}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	$4\frac{1}{2}$	4	$7\frac{3}{4}$	1	$8\frac{7}{8}$	5	$9\frac{1}{2}$	2	$1\frac{1}{4}$	6	$11\frac{1}{4}$
1	$4\frac{3}{4}$	4	$8\frac{1}{8}$	1	9	5	$9\frac{7}{8}$	2	$1\frac{3}{8}$	6	$11\frac{5}{8}$
1	$4\frac{3}{4}$	4	$8\frac{1}{2}$	1	$9\frac{1}{8}$	5	$10\frac{1}{4}$	2	$1\frac{1}{2}$	7	0
1	$4\frac{7}{8}$	4	$8\frac{7}{8}$	1	$9\frac{1}{4}$	5	$10\frac{3}{8}$	2	$1\frac{5}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$
1	5	4	$9\frac{1}{4}-\frac{1}{16}$	1	$9\frac{3}{8}$	5	$11\frac{1}{16}$	2	$1\frac{3}{4}$	7	$0\frac{3}{4}-\frac{1}{16}$
1	$5\frac{1}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	1	$9\frac{1}{2}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$1\frac{7}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$
1	$5\frac{1}{4}$	4	$10\frac{1}{16}$	1	$9\frac{5}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	2	7	$1\frac{1}{2}-\frac{1}{16}$
1	$5\frac{3}{8}$	4	$10\frac{1}{2}$	1	$9\frac{3}{4}$	6	$0\frac{1}{4}$	2	$2\frac{1}{8}$	7	2
1	$5\frac{1}{2}$	4	$10\frac{7}{8}$	1	$9\frac{7}{8}$	6	$0\frac{5}{8}$	2	$2\frac{1}{4}$	7	$2\frac{3}{8}$
1	$5\frac{5}{8}$	4	$11\frac{1}{4}$	1	10	6	1	2	$2\frac{3}{8}$	7	$2\frac{3}{4}$
1	$5\frac{3}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$	1	$10\frac{1}{8}$	6	$1\frac{3}{8}$	2	$2\frac{1}{2}$	7	$3\frac{1}{8}$
1	$5\frac{7}{8}$	5	$0\frac{1}{16}$	1	$10\frac{1}{4}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	$2\frac{5}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$
1	6	5	$0\frac{3}{8}-\frac{1}{16}$	1	$10\frac{3}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	$2\frac{3}{4}$	7	$3\frac{7}{8}-\frac{1}{16}$
1	$6\frac{1}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{2}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$2\frac{7}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$
1	$6\frac{1}{4}$	5	$1\frac{1}{4}$	1	$10\frac{5}{8}$	6	3	2	3	7	$4\frac{3}{4}$
1	$6\frac{3}{8}$	5	$1\frac{5}{8}$	1	$10\frac{3}{4}$	6	$3\frac{3}{8}$	2	$3\frac{1}{8}$	7	$5\frac{1}{8}$
1	$6\frac{1}{2}$	5	2	1	$10\frac{7}{8}$	6	$3\frac{3}{4}$	2	$3\frac{1}{4}$	7	$5\frac{1}{2}$
1	$6\frac{5}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	1	11	6	$4\frac{1}{8}$	2	$3\frac{3}{8}$	7	$5\frac{7}{8}$
1	$6\frac{3}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	1	$11\frac{1}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$3\frac{1}{2}$	7	$6\frac{1}{4}-\frac{1}{16}$
1	$6\frac{7}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{4}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$3\frac{5}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$
1	7	5	$3\frac{1}{2}-\frac{1}{16}$	1	$11\frac{3}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$	2	$3\frac{3}{4}$	7	$7\frac{1}{16}$
1	$7\frac{1}{8}$	5	4	1	$11\frac{1}{2}$	6	$5\frac{3}{4}$	2	$3\frac{7}{8}$	7	$7\frac{3}{8}-\frac{1}{16}$
1	$7\frac{1}{4}$	5	$4\frac{3}{8}$	1	$11\frac{5}{8}$	6	$6\frac{1}{8}$	2	4	7	$7\frac{7}{8}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 51

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	4 $\frac{1}{8}$	7	8 $\frac{1}{4}$	2	8 $\frac{1}{2}$	8	10	3	0 $\frac{7}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$
2	4 $\frac{1}{4}$	7	8 $\frac{5}{8}$	2	8 $\frac{5}{8}$	8	10 $\frac{3}{8}$	3	1	10	0 $\frac{1}{8}$ - $\frac{1}{16}$
2	4 $\frac{3}{8}$	7	9 $\frac{1}{16}$	2	8 $\frac{3}{4}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	1 $\frac{1}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$
2	4 $\frac{1}{2}$	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	2	8 $\frac{7}{8}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{1}{4}$	10	1
2	4 $\frac{5}{8}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$	2	9	8	11 $\frac{5}{8}$	3	1 $\frac{3}{8}$	10	1 $\frac{3}{8}$
2	4 $\frac{3}{4}$	7	10 $\frac{1}{4}$	2	9 $\frac{1}{8}$	9	0	3	1 $\frac{1}{2}$	10	1 $\frac{3}{4}$
2	4 $\frac{7}{8}$	7	10 $\frac{5}{8}$	2	9 $\frac{1}{4}$	9	0 $\frac{3}{8}$	3	1 $\frac{5}{8}$	10	2 $\frac{1}{8}$
2	5	7	11	2	9 $\frac{3}{8}$	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	1 $\frac{3}{4}$	10	2 $\frac{1}{2}$
2	5 $\frac{1}{8}$	7	11 $\frac{3}{8}$	2	9 $\frac{1}{2}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{7}{8}$	10	2 $\frac{7}{8}$
2	5 $\frac{1}{4}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	2	9 $\frac{3}{8}$	9	1 $\frac{5}{8}$	3	2	10	3 $\frac{1}{4}$ - $\frac{1}{16}$
2	5 $\frac{3}{8}$	8	0 $\frac{1}{8}$ - $\frac{1}{16}$	2	9 $\frac{3}{4}$	9	2	3	2 $\frac{1}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$
2	5 $\frac{1}{2}$	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	2	9 $\frac{7}{8}$	9	2 $\frac{3}{8}$	3	2 $\frac{1}{4}$	10	4 $\frac{1}{8}$ - $\frac{1}{16}$
2	5 $\frac{5}{8}$	8	1	2	10	9	2 $\frac{3}{4}$	3	2 $\frac{3}{8}$	10	4 $\frac{1}{2}$
2	5 $\frac{3}{4}$	8	1 $\frac{3}{8}$	2	10 $\frac{1}{8}$	9	3 $\frac{1}{8}$	3	2 $\frac{1}{2}$	10	4 $\frac{7}{8}$
2	5 $\frac{7}{8}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$	2	10 $\frac{1}{4}$	9	3 $\frac{1}{2}$	3	2 $\frac{5}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$
2	6	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	2	10 $\frac{3}{8}$	9	3 $\frac{7}{8}$	3	2 $\frac{3}{4}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$
2	6 $\frac{1}{8}$	8	2 $\frac{1}{2}$ - $\frac{1}{16}$	2	10 $\frac{1}{2}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{7}{8}$	10	6- $\frac{1}{16}$
2	6 $\frac{1}{4}$	8	3	2	10 $\frac{5}{8}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	3	10	6 $\frac{3}{8}$ - $\frac{1}{16}$
2	6 $\frac{3}{8}$	8	3 $\frac{3}{8}$	2	10 $\frac{3}{4}$	9	5 $\frac{1}{16}$	3	3 $\frac{1}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$
2	6 $\frac{1}{2}$	8	3 $\frac{3}{4}$	2	10 $\frac{7}{8}$	9	5 $\frac{1}{2}$	3	3 $\frac{1}{4}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$
2	6 $\frac{5}{8}$	8	4 $\frac{1}{8}$	2	11	9	5 $\frac{7}{8}$	3	3 $\frac{3}{8}$	10	7 $\frac{5}{8}$
2	6 $\frac{3}{4}$	8	4 $\frac{1}{2}$	2	11 $\frac{1}{8}$	9	6 $\frac{1}{4}$ - $\frac{1}{16}$	3	3 $\frac{1}{2}$	10	8
2	6 $\frac{7}{8}$	8	4 $\frac{7}{8}$	2	11 $\frac{1}{4}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$	3	3 $\frac{5}{8}$	10	8 $\frac{3}{8}$
2	7	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	2	11 $\frac{3}{8}$	9	7 $\frac{1}{16}$	3	3 $\frac{3}{4}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$
2	7 $\frac{1}{8}$	8	5 $\frac{5}{8}$ - $\frac{1}{16}$	2	11 $\frac{1}{2}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	3 $\frac{7}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$
2	7 $\frac{1}{4}$	8	6 $\frac{1}{16}$	2	11 $\frac{5}{8}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	4	10	9 $\frac{5}{8}$
2	7 $\frac{3}{8}$	8	6 $\frac{1}{2}$	2	11 $\frac{3}{4}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{1}{8}$	10	10
2	7 $\frac{1}{2}$	8	6 $\frac{7}{8}$	2	11 $\frac{7}{8}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	4 $\frac{1}{4}$	10	10 $\frac{3}{8}$
2	7 $\frac{5}{8}$	8	7 $\frac{1}{4}$ - $\frac{1}{16}$	3	0	9	.9	3	4 $\frac{3}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$
2	7 $\frac{3}{4}$	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	3	0 $\frac{1}{8}$	9	9 $\frac{3}{8}$	3	4 $\frac{1}{2}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$
2	7 $\frac{7}{8}$	8	8 $\frac{1}{16}$	3	0 $\frac{1}{4}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	4 $\frac{5}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$
2	8	8	8 $\frac{1}{2}$	3	0 $\frac{3}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{3}{4}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$
2	8 $\frac{1}{8}$	8	8 $\frac{7}{8}$	3	0 $\frac{1}{2}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	4 $\frac{7}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$
2	8 $\frac{1}{4}$	8	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	0 $\frac{5}{8}$	9	11	3	5	11	0 $\frac{5}{8}$ - $\frac{1}{16}$
2	8 $\frac{3}{8}$	8	9 $\frac{1}{2}$ - $\frac{1}{16}$	3	0 $\frac{3}{4}$	9	11 $\frac{3}{8}$	3	5 $\frac{1}{8}$	11	1- $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$5\frac{1}{4}$	11	$1\frac{1}{2}$	3	$9\frac{5}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	2	13	5
3	$5\frac{3}{8}$	11	$1\frac{7}{8}$	3	$9\frac{3}{4}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$2\frac{1}{8}$	13	$5\frac{3}{8}$
3	$5\frac{1}{2}$	11	$2\frac{1}{4}-\frac{1}{16}$	3	$9\frac{7}{8}$	12	$4-\frac{1}{16}$	4	$2\frac{1}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$
3	$5\frac{5}{8}$	11	$2\frac{5}{8}-\frac{1}{16}$	3	10	12	$4\frac{3}{8}-\frac{1}{16}$	4	$2\frac{3}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$
3	$5\frac{3}{4}$	11	$3-\frac{1}{16}$	3	$10\frac{1}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	$2\frac{1}{2}$	13	$6\frac{1}{2}-\frac{1}{16}$
3	$5\frac{7}{8}$	11	$3\frac{1}{2}$	3	$10\frac{1}{4}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$2\frac{5}{8}$	13	7
3	6	11	$3\frac{7}{8}$	3	$10\frac{3}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	$2\frac{3}{4}$	13	$7\frac{3}{8}$
3	$6\frac{1}{8}$	11	$4\frac{1}{4}-\frac{1}{16}$	3	$10\frac{1}{2}$	12	6	4	$2\frac{7}{8}$	13	$7\frac{3}{4}$
3	$6\frac{1}{4}$	11	$4\frac{5}{8}-\frac{1}{16}$	3	$10\frac{5}{8}$	12	$6\frac{3}{8}$	4	3	13	$8\frac{1}{8}$
3	$6\frac{3}{8}$	11	$5-\frac{1}{16}$	3	$10\frac{3}{4}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$3\frac{1}{8}$	13	$8\frac{1}{2}$
3	$6\frac{1}{2}$	11	$5\frac{3}{8}-\frac{1}{16}$	3	$10\frac{7}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$3\frac{1}{4}$	13	$8\frac{7}{8}$
3	$6\frac{5}{8}$	11	$5\frac{3}{4}-\frac{1}{16}$	3	11	12	$7\frac{1}{2}-\frac{1}{16}$	4	$3\frac{3}{8}$	13	$9\frac{1}{4}-\frac{1}{16}$
3	$6\frac{3}{4}$	11	$6\frac{1}{8}-\frac{1}{16}$	3	$11\frac{1}{8}$	12	8	4	$3\frac{1}{2}$	13	$9\frac{5}{8}-\frac{1}{16}$
3	$6\frac{7}{8}$	11	$6\frac{1}{2}-\frac{1}{16}$	3	$11\frac{1}{4}$	12	$8\frac{3}{8}$	4	$3\frac{5}{8}$	13	$10\frac{1}{16}$
3	7	11	7	3	$11\frac{3}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	$3\frac{3}{4}$	13	$10\frac{1}{2}$
3	$7\frac{1}{8}$	11	$7\frac{3}{8}$	3	$11\frac{1}{2}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	$3\frac{7}{8}$	13	$10\frac{7}{8}$
3	$7\frac{1}{4}$	11	$7\frac{3}{4}-\frac{1}{16}$	3	$11\frac{5}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	4	13	$11\frac{1}{4}-\frac{1}{16}$
3	$7\frac{3}{8}$	11	$8\frac{1}{8}-\frac{1}{16}$	3	$11\frac{3}{4}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$4\frac{1}{8}$	13	$11\frac{5}{8}-\frac{1}{16}$
3	$7\frac{1}{2}$	11	$8\frac{1}{2}-\frac{1}{16}$	3	$11\frac{7}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$4\frac{1}{4}$	14	$0\frac{1}{16}$
3	$7\frac{5}{8}$	11	9	4	0	12	$10\frac{5}{8}-\frac{1}{16}$	4	$4\frac{3}{8}$	14	$0\frac{1}{2}$
3	$7\frac{3}{4}$	11	$9\frac{3}{8}$	4	$0\frac{1}{8}$	12	$11-\frac{1}{16}$	4	$4\frac{1}{2}$	14	$0\frac{7}{8}$
3	$7\frac{7}{8}$	11	$9\frac{3}{4}-\frac{1}{16}$	4	$0\frac{1}{4}$	12	$11\frac{1}{2}$	4	$4\frac{5}{8}$	14	$1\frac{1}{4}$
3	8	11	$10\frac{1}{8}-\frac{1}{16}$	4	$0\frac{3}{8}$	12	$11\frac{7}{8}$	4	$4\frac{3}{4}$	14	$1\frac{5}{8}$
3	$8\frac{1}{8}$	11	$10\frac{1}{2}-\frac{1}{16}$	4	$0\frac{1}{2}$	13	$0\frac{1}{4}-\frac{1}{16}$	4	$4\frac{7}{8}$	14	2
3	$8\frac{1}{4}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	$0\frac{5}{8}$	13	$0\frac{5}{8}-\frac{1}{16}$	4	5	14	$2\frac{3}{8}$
3	$8\frac{3}{8}$	11	$11\frac{1}{4}-\frac{1}{16}$	4	$0\frac{3}{4}$	13	$1-\frac{1}{16}$	4	$5\frac{1}{8}$	14	$2\frac{3}{4}-\frac{1}{16}$
3	$8\frac{1}{2}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	$0\frac{7}{8}$	13	$1\frac{1}{2}$	4	$5\frac{1}{4}$	14	$3\frac{1}{8}-\frac{1}{16}$
3	$8\frac{5}{8}$	12	$0\frac{1}{16}$	4	1	13	$1\frac{7}{8}$	4	$5\frac{3}{8}$	14	$3\frac{1}{2}-\frac{1}{16}$
3	$8\frac{3}{4}$	12	$0\frac{1}{2}$	4	$1\frac{1}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	$5\frac{1}{2}$	14	4
3	$8\frac{7}{8}$	12	$0\frac{7}{8}$	4	$1\frac{1}{4}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	$5\frac{3}{8}$	14	$4\frac{3}{8}$
3	9	12	$1\frac{1}{4}-\frac{1}{16}$	4	$1\frac{3}{8}$	13	$3\frac{1}{16}$	4	$5\frac{3}{4}$	14	$4\frac{3}{4}-\frac{1}{16}$
3	$9\frac{1}{8}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{2}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	$5\frac{7}{8}$	14	$5\frac{1}{8}-\frac{1}{16}$
3	$9\frac{1}{4}$	12	$2-\frac{1}{16}$	4	$1\frac{5}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$	4	6	14	$5\frac{1}{2}-\frac{1}{16}$
3	$9\frac{3}{8}$	12	$2\frac{1}{2}$	4	$1\frac{3}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$6\frac{1}{8}$	14	6
3	$9\frac{1}{2}$	12	$2\frac{7}{8}$	4	$1\frac{7}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	$6\frac{1}{4}$	14	$6\frac{3}{8}$



ANGLE-IRON RINGS (FLANGE OUTSIDE). 53

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	6 $\frac{3}{8}$	14	6 $\frac{3}{4}$	4	10 $\frac{3}{4}$	15	8 $\frac{1}{2}$	5	3 $\frac{1}{8}$	16	10 $\frac{1}{4}$
4	6 $\frac{1}{2}$	14	7 $\frac{1}{8}$	4	10 $\frac{7}{8}$	15	8 $\frac{7}{8}$	5	3 $\frac{1}{4}$	16	10 $\frac{5}{8}$
4	6 $\frac{5}{8}$	14	7 $\frac{1}{2}$	4	11	15	9 $\frac{1}{4}$ - $\frac{1}{16}$	5	3 $\frac{3}{8}$	16	11
4	6 $\frac{3}{4}$	14	7 $\frac{7}{8}$	4	11 $\frac{1}{8}$	15	9 $\frac{3}{8}$ - $\frac{1}{16}$	5	3 $\frac{1}{2}$	16	11 $\frac{3}{8}$
4	6 $\frac{7}{8}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$	4	11 $\frac{1}{4}$	15	10- $\frac{1}{16}$	5	3 $\frac{5}{8}$	16	11 $\frac{3}{4}$ - $\frac{1}{16}$
4	7	14	8 $\frac{5}{8}$ - $\frac{1}{16}$	4	11 $\frac{3}{8}$	15	10 $\frac{1}{2}$	5	3 $\frac{3}{4}$	17	0 $\frac{1}{8}$ - $\frac{1}{16}$
4	7 $\frac{1}{8}$	14	9 $\frac{1}{8}$	4	11 $\frac{1}{2}$	15	10 $\frac{7}{8}$	5	3 $\frac{7}{8}$	17	0 $\frac{1}{2}$ - $\frac{1}{16}$
4	7 $\frac{1}{4}$	14	9 $\frac{1}{2}$	4	11 $\frac{5}{8}$	15	11 $\frac{1}{4}$	5	4	17	1
4	7 $\frac{3}{8}$	14	9 $\frac{7}{8}$	4	11 $\frac{3}{4}$	15	11 $\frac{3}{8}$	5	4 $\frac{1}{8}$	17	1 $\frac{3}{8}$
4	7 $\frac{1}{2}$	14	10 $\frac{1}{4}$	4	11 $\frac{7}{8}$	16	0	5	4 $\frac{1}{4}$	17	1 $\frac{3}{4}$ - $\frac{1}{16}$
4	7 $\frac{5}{8}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$	5	0	16	0 $\frac{3}{8}$	5	4 $\frac{3}{8}$	17	2 $\frac{1}{8}$ - $\frac{1}{16}$
4	7 $\frac{3}{4}$	14	11 $\frac{1}{8}$	5	0 $\frac{1}{8}$	16	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	4 $\frac{1}{2}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$
4	7 $\frac{7}{8}$	14	11 $\frac{1}{2}$	5	0 $\frac{1}{4}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$	5	4 $\frac{5}{8}$	17	3
4	8	14	11 $\frac{7}{8}$	5	0 $\frac{3}{8}$	16	1 $\frac{1}{2}$ - $\frac{1}{16}$	5	4 $\frac{3}{4}$	17	3 $\frac{3}{8}$
4	8 $\frac{1}{8}$	15	0 $\frac{1}{4}$	5	0 $\frac{1}{2}$	16	2	5	4 $\frac{7}{8}$	17	3 $\frac{3}{4}$
4	8 $\frac{1}{4}$	15	0 $\frac{5}{8}$	5	0 $\frac{5}{8}$	16	2 $\frac{3}{8}$	5	5	17	4 $\frac{1}{8}$
4	8 $\frac{3}{8}$	15	1	5	0 $\frac{3}{4}$	16	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	5 $\frac{1}{8}$	17	4 $\frac{1}{2}$
4	8 $\frac{1}{2}$	15	1 $\frac{3}{8}$	5	0 $\frac{7}{8}$	16	3 $\frac{1}{4}$ - $\frac{1}{16}$	5	5 $\frac{1}{4}$	17	4 $\frac{7}{8}$
4	8 $\frac{5}{8}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	1	16	3 $\frac{1}{2}$ - $\frac{1}{16}$	5	5 $\frac{3}{8}$	17	5 $\frac{1}{4}$
4	8 $\frac{3}{4}$	15	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	1 $\frac{1}{8}$	16	4	5	5 $\frac{1}{2}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$
4	8 $\frac{7}{8}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	1 $\frac{1}{4}$	16	4 $\frac{3}{8}$	5	5 $\frac{5}{8}$	17	6 $\frac{1}{8}$
4	9	15	3	5	1 $\frac{3}{8}$	16	4 $\frac{3}{4}$	5	5 $\frac{3}{4}$	17	6 $\frac{1}{2}$
4	9 $\frac{1}{8}$	15	3 $\frac{3}{8}$	5	1 $\frac{1}{2}$	16	5 $\frac{1}{8}$	5	5 $\frac{7}{8}$	17	6 $\frac{7}{8}$
4	9 $\frac{1}{4}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$	5	1 $\frac{5}{8}$	16	5 $\frac{1}{2}$	5	6	17	7 $\frac{1}{4}$
4	9 $\frac{3}{8}$	15	4 $\frac{1}{8}$ - $\frac{1}{16}$	5	1 $\frac{3}{4}$	16	5 $\frac{7}{8}$	5	6 $\frac{1}{8}$	17	7 $\frac{5}{8}$ - $\frac{1}{16}$
4	9 $\frac{1}{2}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$	5	1 $\frac{7}{8}$	16	6 $\frac{1}{4}$ - $\frac{1}{16}$	5	6 $\frac{1}{4}$	17	8 $\frac{1}{8}$
4	9 $\frac{5}{8}$	15	5	5	2	16	6 $\frac{5}{8}$ - $\frac{1}{16}$	5	6 $\frac{3}{8}$	17	8 $\frac{1}{2}$
4	9 $\frac{3}{4}$	15	5 $\frac{3}{8}$	5	2 $\frac{1}{8}$	16	7 $\frac{1}{8}$	5	6 $\frac{1}{2}$	17	8 $\frac{7}{8}$
4	9 $\frac{7}{8}$	15	5 $\frac{3}{4}$	5	2 $\frac{1}{4}$	16	7 $\frac{1}{2}$	5	6 $\frac{5}{8}$	17	9 $\frac{1}{4}$
4	10	15	6 $\frac{1}{8}$	5	2 $\frac{3}{8}$	16	7 $\frac{7}{8}$	5	6 $\frac{3}{4}$	17	9 $\frac{3}{8}$
4	10 $\frac{1}{8}$	15	6 $\frac{1}{2}$	5	2 $\frac{1}{2}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	6 $\frac{7}{8}$	17	10
4	10 $\frac{1}{4}$	15	6 $\frac{7}{8}$	5	2 $\frac{5}{8}$	16	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	7	17	10 $\frac{3}{8}$
4	10 $\frac{3}{8}$	15	7 $\frac{1}{4}$ - $\frac{1}{16}$	5	2 $\frac{3}{4}$	16	9 $\frac{1}{8}$	5	7 $\frac{1}{8}$	17	10 $\frac{3}{4}$ - $\frac{1}{16}$
4	10 $\frac{1}{2}$	15	7 $\frac{7}{8}$ - $\frac{1}{16}$	5	2 $\frac{7}{8}$	16	9 $\frac{1}{2}$	5	7 $\frac{1}{4}$	17	11 $\frac{1}{8}$ - $\frac{1}{16}$
4	10 $\frac{5}{8}$	15	8 $\frac{1}{8}$	5	3	16	9 $\frac{7}{8}$	5	7 $\frac{3}{8}$	17	11 $\frac{1}{2}$ - $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	$7\frac{1}{2}$	18	0	5	$11\frac{7}{8}$	19	$1\frac{5}{8}-\frac{1}{16}$	6	$4\frac{1}{4}$	20	$3\frac{1}{2}$
5	$7\frac{5}{8}$	18	$0\frac{3}{8}$	6	0	19	$2\frac{1}{8}$	6	$4\frac{3}{8}$	20	$3\frac{7}{8}$
5	$7\frac{3}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$	6	$0\frac{1}{8}$	19	$2\frac{1}{2}$	6	$4\frac{1}{2}$	20	$4\frac{1}{4}-\frac{1}{16}$
5	$7\frac{7}{8}$	18	$1\frac{1}{8}-\frac{1}{16}$	6	$0\frac{1}{4}$	19	$2\frac{7}{8}$	6	$4\frac{5}{8}$	20	$4\frac{5}{8}-\frac{1}{16}$
5	8	18	$1\frac{1}{2}-\frac{1}{16}$	6	$0\frac{3}{8}$	19	$3\frac{1}{4}-\frac{1}{16}$	6	$4\frac{3}{4}$	20	$5-\frac{1}{16}$
5	$8\frac{1}{8}$	18	$1\frac{7}{8}-\frac{1}{16}$	6	$0\frac{1}{2}$	19	$3\frac{5}{8}-\frac{1}{16}$	6	$4\frac{7}{8}$	20	$5\frac{3}{8}-\frac{1}{16}$
5	$8\frac{1}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$	6	$0\frac{5}{8}$	19	$4\frac{1}{8}$	6	5	20	$5\frac{3}{4}-\frac{1}{16}$
5	$8\frac{3}{8}$	18	$2\frac{5}{8}-\frac{1}{16}$	6	$0\frac{3}{4}$	19	$4\frac{1}{2}$	6	$5\frac{1}{8}$	20	$6\frac{1}{8}-\frac{1}{16}$
5	$8\frac{1}{2}$	18	$3\frac{1}{8}$	6	$0\frac{7}{8}$	19	$4\frac{7}{8}$	6	$5\frac{1}{4}$	20	$6\frac{1}{2}-\frac{1}{16}$
5	$8\frac{5}{8}$	18	$3\frac{1}{2}$	6	1	19	$5\frac{1}{4}-\frac{1}{16}$	6	$5\frac{3}{8}$	20	7
5	$8\frac{3}{4}$	18	$3\frac{7}{8}$	6	$1\frac{1}{8}$	19	$5\frac{5}{8}-\frac{1}{16}$	6	$5\frac{1}{2}$	20	$7\frac{3}{8}$
5	$8\frac{7}{8}$	18	$4\frac{1}{4}-\frac{1}{16}$	6	$1\frac{1}{4}$	19	$6-\frac{1}{16}$	6	$5\frac{5}{8}$	20	$7\frac{3}{4}-\frac{1}{16}$
5	9	18	$4\frac{5}{8}-\frac{1}{16}$	6	$1\frac{3}{8}$	19	$6\frac{3}{8}-\frac{1}{16}$	6	$5\frac{3}{4}$	20	$8\frac{1}{8}-\frac{1}{16}$
5	$9\frac{1}{8}$	18	$5\frac{1}{8}$	6	$1\frac{1}{2}$	19	$6\frac{3}{4}-\frac{1}{16}$	6	$5\frac{7}{8}$	20	$8\frac{1}{2}-\frac{1}{16}$
5	$9\frac{1}{4}$	18	$5\frac{1}{2}$	6	$1\frac{5}{8}$	19	$7\frac{1}{8}-\frac{1}{16}$	6	6	20	9
5	$9\frac{3}{8}$	18	$5\frac{7}{8}$	6	$1\frac{3}{4}$	19	$7\frac{1}{2}-\frac{1}{16}$	6	$6\frac{1}{8}$	20	$9\frac{3}{8}$
5	$9\frac{1}{2}$	18	$6\frac{1}{4}-\frac{1}{16}$	6	$1\frac{7}{8}$	19	8	6	$6\frac{1}{4}$	20	$9\frac{3}{4}$
5	$9\frac{5}{8}$	18	$6\frac{5}{8}-\frac{1}{16}$	6	2	19	$8\frac{3}{8}$	6	$6\frac{3}{8}$	20	$10\frac{1}{8}$
5	$9\frac{3}{4}$	18	$7-\frac{1}{16}$	6	$2\frac{1}{8}$	19	$8\frac{3}{4}-\frac{1}{16}$	6	$6\frac{1}{2}$	20	$10\frac{1}{2}$
5	$9\frac{7}{8}$	18	$7\frac{3}{8}-\frac{1}{16}$	6	$2\frac{1}{4}$	19	$9\frac{1}{8}-\frac{1}{16}$	6	$6\frac{5}{8}$	20	$10\frac{7}{8}$
5	10	18	$7\frac{3}{4}-\frac{1}{16}$	6	$2\frac{3}{8}$	19	$9\frac{1}{2}-\frac{1}{16}$	6	$6\frac{3}{4}$	20	$11\frac{1}{4}-\frac{1}{16}$
5	$10\frac{1}{8}$	18	$8\frac{1}{8}-\frac{1}{16}$	6	$2\frac{1}{2}$	19	10	6	$6\frac{7}{8}$	20	$11\frac{3}{8}-\frac{1}{16}$
5	$10\frac{1}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$	6	$2\frac{5}{8}$	19	$10\frac{3}{8}$	6	7	21	$0\frac{1}{8}$
5	$10\frac{3}{8}$	18	9	6	$2\frac{3}{4}$	19	$10\frac{3}{4}-\frac{1}{16}$	6	$7\frac{1}{8}$	21	$0\frac{1}{2}$
5	$10\frac{1}{2}$	18	$9\frac{3}{8}$	6	$2\frac{7}{8}$	19	$11\frac{1}{8}-\frac{1}{16}$	6	$7\frac{1}{4}$	21	$0\frac{7}{8}$
5	$10\frac{5}{8}$	18	$9\frac{3}{4}-\frac{1}{16}$	6	3	19	$11\frac{1}{2}-\frac{1}{16}$	6	$7\frac{3}{8}$	21	$1\frac{1}{4}-\frac{1}{16}$
5	$10\frac{3}{4}$	18	$10\frac{1}{8}-\frac{1}{16}$	6	$3\frac{1}{8}$	19	$11\frac{7}{8}-\frac{1}{16}$	6	$7\frac{1}{2}$	21	$1\frac{5}{8}-\frac{1}{16}$
5	$10\frac{7}{8}$	18	$10\frac{1}{2}-\frac{1}{16}$	6	$3\frac{1}{4}$	20	$0\frac{1}{4}-\frac{1}{16}$	6	$7\frac{5}{8}$	21	$2\frac{1}{8}$
5	11	18	11	6	$3\frac{3}{8}$	20	$0\frac{5}{8}-\frac{1}{16}$	6	$7\frac{3}{4}$	21	$2\frac{1}{2}$
5	$11\frac{1}{8}$	18	$11\frac{3}{8}$	6	$3\frac{1}{2}$	20	$1\frac{1}{8}$	6	$7\frac{7}{8}$	21	$2\frac{7}{8}$
5	$11\frac{1}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$	6	$3\frac{3}{8}$	20	$1\frac{1}{2}$	6	8	21	$3\frac{1}{4}$
5	$11\frac{3}{8}$	19	$0\frac{1}{8}-\frac{1}{16}$	6	$3\frac{3}{4}$	20	$1\frac{7}{8}$	6	$8\frac{1}{8}$	21	$3\frac{5}{8}$
5	$11\frac{1}{2}$	19	$0\frac{1}{2}-\frac{1}{16}$	6	$3\frac{7}{8}$	20	$2\frac{1}{4}-\frac{1}{16}$	6	$8\frac{1}{4}$	21	4
5	$11\frac{5}{8}$	19	$0\frac{7}{8}-\frac{1}{16}$	6	4	20	$2\frac{5}{8}-\frac{1}{16}$	6	$8\frac{3}{8}$	21	$4\frac{3}{8}$
5	$11\frac{3}{4}$	19	$1\frac{1}{4}-\frac{1}{16}$	6	$4\frac{1}{8}$	20	$3\frac{1}{8}$	6	$8\frac{1}{2}$	21	$4\frac{3}{4}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 55

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$8\frac{5}{8}$	21	$5\frac{1}{8}-\frac{1}{16}$	6	$9\frac{3}{4}$	21	$8\frac{3}{4}$	6	$10\frac{7}{8}$	22	$0\frac{1}{4}-\frac{1}{16}$
6	$8\frac{3}{4}$	21	$5\frac{1}{2}-\frac{1}{16}$	6	$9\frac{7}{8}$	21	$9\frac{1}{8}$	6	11	22	$0\frac{3}{8}-\frac{1}{16}$
6	$8\frac{7}{8}$	21	6	6	10	21	$9\frac{1}{2}$	6	$11\frac{1}{8}$	22	$1\frac{1}{8}$
6	9	21	$6\frac{3}{8}$	6	$10\frac{1}{8}$	21	$9\frac{7}{8}$	6	$11\frac{1}{4}$	22	$1\frac{1}{2}$
6	$9\frac{1}{8}$	21	$6\frac{3}{4}-\frac{1}{16}$	6	$10\frac{1}{4}$	21	$10\frac{1}{4}-\frac{1}{16}$	6	$11\frac{3}{8}$	22	$1\frac{7}{8}$
6	$9\frac{1}{4}$	21	$7\frac{1}{8}-\frac{1}{16}$	6	$10\frac{3}{8}$	21	$10\frac{5}{8}-\frac{1}{16}$	6	$11\frac{1}{2}$	22	$2\frac{1}{4}$
6	$9\frac{3}{8}$	21	$7\frac{1}{2}-\frac{1}{16}$	6	$10\frac{1}{2}$	21	$11\frac{1}{8}$	6	$11\frac{5}{8}$	22	$2\frac{5}{8}$
6	$9\frac{1}{2}$	21	8	6	$10\frac{5}{8}$	21	$11\frac{1}{2}$	6	$11\frac{3}{4}$	22	3
6	$9\frac{5}{8}$	21	$8\frac{3}{8}$	6	$10\frac{3}{4}$	21	$11\frac{7}{8}$	6	$11\frac{7}{8}$	22	$3\frac{3}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	6	1	$2\frac{3}{8}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$4\frac{3}{4}$	4	$8\frac{7}{8}-\frac{1}{16}$
1	$0\frac{1}{8}$	3	$6\frac{3}{8}$	1	$2\frac{1}{2}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$4\frac{7}{8}$	4	$9\frac{1}{4}-\frac{1}{16}$
1	$0\frac{1}{4}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	$2\frac{5}{8}$	4	$2\frac{1}{4}$	1	5	4	$9\frac{5}{8}-\frac{1}{16}$
1	$0\frac{3}{8}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	$2\frac{3}{4}$	4	$2\frac{5}{8}$	1	$5\frac{1}{8}$	4	$10\frac{1}{16}$
1	$0\frac{1}{2}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$2\frac{7}{8}$	4	$3\frac{1}{16}$	1	$5\frac{1}{4}$	4	$10\frac{1}{2}$
1	$0\frac{5}{8}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	3	4	$3\frac{3}{8}-\frac{1}{16}$	1	$5\frac{3}{8}$	4	$10\frac{7}{8}$
1	$0\frac{3}{4}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$3\frac{1}{8}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$5\frac{1}{2}$	4	$11\frac{1}{4}$
1	$0\frac{7}{8}$	3	$8\frac{3}{4}$	1	$3\frac{1}{4}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$5\frac{5}{8}$	4	$11\frac{5}{8}-\frac{1}{16}$
1	1	3	$9\frac{1}{8}$	1	$3\frac{3}{8}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$5\frac{3}{4}$	5	$0\frac{1}{16}$
1	$1\frac{1}{8}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$3\frac{1}{2}$	4	5	1	$5\frac{7}{8}$	5	$0\frac{3}{8}-\frac{1}{16}$
1	$1\frac{1}{4}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$3\frac{5}{8}$	4	$5\frac{3}{8}$	1	6	5	$0\frac{3}{4}-\frac{1}{16}$
1	$1\frac{3}{8}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$3\frac{3}{4}$	4	$5\frac{3}{4}$	1	$6\frac{1}{8}$	5	$1\frac{1}{4}$
1	$1\frac{1}{2}$	3	$10\frac{3}{8}-\frac{1}{16}$	1	$3\frac{7}{8}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$6\frac{1}{4}$	5	$1\frac{5}{8}$
1	$1\frac{5}{8}$	3	$11\frac{1}{16}$	1	4	4	$6\frac{1}{2}-\frac{1}{16}$	1	$6\frac{3}{8}$	5	2
1	$1\frac{3}{4}$	3	$11\frac{1}{2}$	1	$4\frac{1}{8}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$6\frac{1}{2}$	5	$2\frac{3}{8}-\frac{1}{16}$
1	$1\frac{7}{8}$	3	$11\frac{7}{8}$	1	$4\frac{1}{4}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$6\frac{5}{8}$	5	$2\frac{3}{4}-\frac{1}{16}$
1	2	4	$0\frac{1}{4}$	1	$4\frac{3}{8}$	4	$7\frac{3}{4}$	1	$6\frac{3}{4}$	5	$3\frac{1}{8}-\frac{1}{16}$
1	$2\frac{1}{8}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$4\frac{1}{2}$	4	$8\frac{1}{8}$	1	$6\frac{7}{8}$	5	$3\frac{1}{2}-\frac{1}{16}$
1	$2\frac{1}{4}$	4	$1\frac{1}{16}$	1	$4\frac{5}{8}$	4	$8\frac{1}{2}$	1	7	5	4

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$7\frac{1}{8}$	5	$4\frac{3}{8}$	1	$11\frac{1}{2}$	6	$6\frac{1}{8}$	2	$3\frac{7}{8}$	7	$7\frac{7}{8}$
1	$7\frac{1}{4}$	5	$4\frac{3}{4}$	1	$11\frac{5}{8}$	6	$6\frac{1}{2}$	2	4	7	$8\frac{1}{4}$
1	$7\frac{3}{8}$	5	$5\frac{1}{8}-\frac{1}{16}$	1	$11\frac{3}{4}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	$4\frac{1}{8}$	7	$8\frac{5}{8}$
1	$7\frac{1}{2}$	5	$5\frac{1}{2}-\frac{1}{16}$	1	$11\frac{7}{8}$	6	$7\frac{1}{4}-\frac{1}{16}$	2	$4\frac{1}{4}$	7	$9\frac{1}{16}$
1	$7\frac{5}{8}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	0	6	$7\frac{3}{4}$	2	$4\frac{3}{8}$	7	$9\frac{3}{8}-\frac{1}{16}$
1	$7\frac{3}{4}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{8}$	6	$8\frac{1}{8}$	2	$4\frac{1}{2}$	7	$9\frac{3}{4}-\frac{1}{16}$
1	$7\frac{7}{8}$	5	$6\frac{3}{4}$	2	$0\frac{1}{4}$	6	$8\frac{1}{2}$	2	$4\frac{5}{8}$	7	$10\frac{1}{4}$
1	8	5	$7\frac{1}{8}$	2	$0\frac{3}{8}$	6	$8\frac{7}{8}$	2	$4\frac{3}{4}$	7	$10\frac{3}{8}$
1	$8\frac{1}{8}$	5	$7\frac{1}{2}$	2	$0\frac{1}{2}$	6	$9\frac{1}{4}$	2	$4\frac{7}{8}$	7	11
1	$8\frac{1}{4}$	5	$7\frac{7}{8}$	2	$0\frac{5}{8}$	6	$9\frac{5}{8}-\frac{1}{16}$	2	5	7	$11\frac{3}{8}$
1	$8\frac{3}{8}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$0\frac{3}{4}$	6	$10\frac{1}{16}$	2	$5\frac{1}{8}$	7	$11\frac{3}{4}-\frac{1}{16}$
1	$8\frac{1}{2}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$0\frac{7}{8}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	$5\frac{1}{4}$	8	$0\frac{1}{8}-\frac{1}{16}$
1	$8\frac{5}{8}$	5	$9\frac{1}{8}$	2	1	6	$10\frac{3}{4}-\frac{1}{16}$	2	$5\frac{3}{8}$	8	$0\frac{1}{2}-\frac{1}{16}$
1	$8\frac{3}{4}$	5	$9\frac{1}{2}$	2	$1\frac{1}{8}$	6	$11\frac{1}{4}$	2	$5\frac{1}{2}$	8	1
1	$8\frac{7}{8}$	5	$9\frac{7}{8}$	2	$1\frac{1}{4}$	6	$11\frac{5}{8}$	2	$5\frac{5}{8}$	8	$1\frac{3}{8}$
1	9	5	$10\frac{1}{4}$	2	$1\frac{3}{8}$	7	0	2	$5\frac{3}{4}$	8	$1\frac{3}{4}-\frac{1}{16}$
1	$9\frac{1}{8}$	5	$10\frac{5}{8}$	2	$1\frac{1}{2}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$5\frac{7}{8}$	8	$2\frac{1}{8}-\frac{1}{16}$
1	$9\frac{1}{4}$	5	$11\frac{1}{16}$	2	$1\frac{5}{8}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	6	8	$2\frac{1}{2}-\frac{1}{16}$
1	$9\frac{3}{8}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$1\frac{3}{4}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	$6\frac{1}{8}$	8	3
1	$9\frac{1}{2}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	$1\frac{7}{8}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	$6\frac{1}{4}$	8	$3\frac{3}{8}$
1	$9\frac{5}{8}$	6	$0\frac{1}{4}$	2	2	7	2	2	$6\frac{3}{8}$	8	$3\frac{3}{4}$
1	$9\frac{3}{4}$	6	$0\frac{3}{8}$	2	$2\frac{1}{8}$	7	$2\frac{3}{8}$	2	$6\frac{1}{2}$	8	$4\frac{1}{8}$
1	$9\frac{7}{8}$	6	1	2	$2\frac{1}{4}$	7	$2\frac{3}{4}$	2	$6\frac{5}{8}$	8	$4\frac{1}{2}$
1	10	6	$1\frac{3}{8}$	2	$2\frac{3}{8}$	7	$3\frac{1}{8}$	2	$6\frac{3}{4}$	8	$4\frac{7}{8}$
1	$10\frac{1}{8}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	$2\frac{1}{2}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$6\frac{7}{8}$	8	$5\frac{1}{4}-\frac{1}{16}$
1	$10\frac{1}{4}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	$2\frac{5}{8}$	7	$3\frac{7}{8}-\frac{1}{16}$	2	7	8	$5\frac{5}{8}-\frac{1}{16}$
1	$10\frac{3}{8}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$2\frac{3}{4}$	7	$4\frac{1}{4}-\frac{1}{16}$	2	$7\frac{1}{8}$	8	$6\frac{1}{16}$
1	$10\frac{1}{2}$	6	3	2	$2\frac{7}{8}$	7	$4\frac{3}{4}$	2	$7\frac{1}{4}$	8	$6\frac{1}{2}$
1	$10\frac{5}{8}$	6	$3\frac{5}{8}$	2	3	7	$5\frac{1}{8}$	2	$7\frac{3}{8}$	8	$6\frac{7}{8}$
1	$10\frac{3}{4}$	6	$3\frac{3}{4}$	2	$3\frac{1}{8}$	7	$5\frac{1}{2}$	2	$7\frac{1}{2}$	8	$7\frac{1}{4}-\frac{1}{16}$
1	$10\frac{7}{8}$	6	$4\frac{1}{8}$	2	$3\frac{1}{4}$	7	$5\frac{7}{8}$	2	$7\frac{5}{8}$	8	$7\frac{5}{8}-\frac{1}{16}$
1	11	6	$4\frac{1}{2}-\frac{1}{16}$	2	$3\frac{3}{8}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	$7\frac{3}{4}$	8	$8\frac{1}{16}$
1	$11\frac{1}{8}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$3\frac{1}{2}$	7	$6\frac{5}{8}-\frac{1}{16}$	2	$7\frac{7}{8}$	8	$8\frac{1}{2}$
1	$11\frac{1}{4}$	6	$5\frac{1}{4}-\frac{1}{16}$	2	$3\frac{5}{8}$	7	$7\frac{1}{16}$	2	8	8	$8\frac{7}{8}$
1	$11\frac{3}{8}$	6	$5\frac{3}{4}$	2	$3\frac{3}{4}$	7	$7\frac{3}{8}-\frac{1}{16}$	2	$8\frac{1}{8}$	8	$9\frac{1}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 57

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	8 $\frac{1}{4}$	8	9 $\frac{1}{2}$ - $\frac{1}{16}$	3	0 $\frac{5}{8}$	9	11 $\frac{3}{8}$	3	5	11	1 $\frac{1}{16}$
2	8 $\frac{3}{8}$	8	10	3	0 $\frac{3}{4}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	5 $\frac{1}{8}$	11	1 $\frac{1}{2}$
2	8 $\frac{1}{2}$	8	10 $\frac{3}{8}$	3	0 $\frac{7}{8}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	5 $\frac{1}{4}$	11	1 $\frac{7}{8}$
2	8 $\frac{5}{8}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	1	10	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	5 $\frac{3}{8}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$
2	8 $\frac{3}{4}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{1}{8}$	10	1	3	5 $\frac{1}{2}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$
2	8 $\frac{7}{8}$	8	11 $\frac{5}{8}$	3	1 $\frac{1}{4}$	10	1 $\frac{3}{8}$	3	5 $\frac{5}{8}$	11	3 $\frac{1}{16}$
2	9	9	0	3	1 $\frac{3}{8}$	10	1 $\frac{3}{4}$	3	5 $\frac{3}{4}$	11	3 $\frac{1}{2}$
2	9 $\frac{1}{8}$	9	0 $\frac{3}{8}$	3	1 $\frac{1}{2}$	10	2 $\frac{1}{8}$	3	5 $\frac{7}{8}$	11	3 $\frac{7}{8}$
2	9 $\frac{1}{4}$	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	1 $\frac{5}{8}$	10	2 $\frac{1}{2}$	3	6	11	4 $\frac{1}{4}$ - $\frac{1}{16}$
2	9 $\frac{3}{8}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{3}{4}$	10	2 $\frac{7}{8}$	3	6 $\frac{1}{8}$	11	4 $\frac{5}{8}$ - $\frac{1}{16}$
2	9 $\frac{1}{2}$	9	1 $\frac{5}{8}$	3	1 $\frac{7}{8}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$	3	6 $\frac{1}{4}$	11	5 $\frac{1}{16}$
2	9 $\frac{5}{8}$	9	2	3	2	10	3 $\frac{5}{8}$ - $\frac{1}{16}$	3	6 $\frac{3}{8}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$
2	9 $\frac{3}{4}$	9	2 $\frac{3}{8}$	3	2 $\frac{1}{8}$	10	4 $\frac{1}{8}$	3	6 $\frac{1}{2}$	11	5 $\frac{3}{4}$ - $\frac{1}{16}$
2	9 $\frac{7}{8}$	9	2 $\frac{3}{4}$	3	2 $\frac{1}{4}$	10	4 $\frac{1}{2}$	3	6 $\frac{3}{8}$	11	6 $\frac{1}{8}$ - $\frac{1}{16}$
2	10	9	3 $\frac{1}{8}$	3	2 $\frac{3}{8}$	10	4 $\frac{7}{8}$	3	6 $\frac{3}{4}$	11	6 $\frac{1}{2}$ - $\frac{1}{16}$
2	10 $\frac{1}{8}$	9	3 $\frac{1}{2}$	3	2 $\frac{1}{2}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	6 $\frac{7}{8}$	11	7
2	10 $\frac{1}{4}$	9	3 $\frac{7}{8}$	3	2 $\frac{5}{8}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	7	11	7 $\frac{3}{8}$
2	10 $\frac{3}{8}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{3}{4}$	10	6 $\frac{1}{16}$	3	7 $\frac{1}{8}$	11	7 $\frac{3}{4}$ - $\frac{1}{16}$
2	10 $\frac{1}{2}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	2 $\frac{7}{8}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{4}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$
2	10 $\frac{5}{8}$	9	5 $\frac{1}{16}$	3	3	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{3}{8}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$
2	10 $\frac{3}{4}$	9	5 $\frac{1}{2}$	3	3 $\frac{1}{8}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{2}$	11	9
2	10 $\frac{7}{8}$	9	5 $\frac{7}{8}$	3	3 $\frac{1}{4}$	10	7 $\frac{5}{8}$	3	7 $\frac{5}{8}$	11	9 $\frac{3}{8}$
2	11	9	6 $\frac{1}{4}$ - $\frac{1}{16}$	3	3 $\frac{3}{8}$	10	8	3	7 $\frac{3}{4}$	11	9 $\frac{3}{4}$ - $\frac{1}{16}$
2	11 $\frac{1}{8}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$	3	3 $\frac{1}{2}$	10	8 $\frac{3}{8}$	3	7 $\frac{7}{8}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$
2	11 $\frac{1}{4}$	9	7 $\frac{1}{16}$	3	3 $\frac{5}{8}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$	3	8	11	10 $\frac{1}{2}$ - $\frac{1}{16}$
2	11 $\frac{3}{8}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	3 $\frac{3}{4}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{1}{8}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$
2	11 $\frac{1}{2}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	3 $\frac{7}{8}$	10	9 $\frac{5}{8}$	3	8 $\frac{1}{4}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$
2	11 $\frac{5}{8}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	4	10	10	3	8 $\frac{3}{8}$	11	11 $\frac{5}{8}$ - $\frac{1}{16}$
2	11 $\frac{3}{4}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	4 $\frac{1}{8}$	10	10 $\frac{3}{8}$	3	8 $\frac{1}{2}$	12	0 $\frac{1}{16}$
2	11 $\frac{7}{8}$	9	9	3	4 $\frac{1}{4}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	8 $\frac{5}{8}$	12	0 $\frac{1}{2}$
3	0	9	9 $\frac{3}{8}$	3	4 $\frac{3}{8}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{3}{4}$	12	0 $\frac{7}{8}$
3	0 $\frac{1}{8}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	4 $\frac{1}{2}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$	3	8 $\frac{7}{8}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$
3	0 $\frac{1}{4}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{5}{8}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$	3	9	12	1 $\frac{5}{8}$ - $\frac{1}{16}$
3	0 $\frac{3}{8}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	4 $\frac{3}{4}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{1}{8}$	12	2 $\frac{1}{16}$
3	0 $\frac{1}{2}$	9	11	3	4 $\frac{7}{8}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{1}{4}$	12	2 $\frac{1}{2}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$9\frac{3}{8}$	12	$2\frac{7}{8}$	4	$1\frac{3}{4}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	$6\frac{1}{8}$	14	$6\frac{3}{8}$
3	$9\frac{1}{2}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	$1\frac{7}{8}$	13	5	4	$6\frac{1}{4}$	14	$6\frac{3}{4}$
3	$9\frac{5}{8}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	2	13	$5\frac{3}{8}$	4	$6\frac{3}{8}$	14	$7\frac{1}{8}$
3	$9\frac{3}{4}$	12	$4\frac{1}{8}$	4	$2\frac{1}{8}$	13	$5\frac{3}{4}-\frac{1}{16}$	4	$6\frac{1}{2}$	14	$7\frac{1}{2}$
3	$9\frac{7}{8}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$2\frac{1}{4}$	13	$6\frac{1}{8}-\frac{1}{16}$	4	$6\frac{5}{8}$	14	$7\frac{7}{8}$
3	10	12	$4\frac{3}{4}-\frac{1}{16}$	4	$2\frac{3}{8}$	13	$6\frac{1}{2}-\frac{1}{16}$	4	$6\frac{3}{4}$	14	$8\frac{1}{4}-\frac{1}{16}$
3	$10\frac{1}{8}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$2\frac{1}{2}$	13	7	4	$6\frac{7}{8}$	14	$8\frac{5}{8}-\frac{1}{16}$
3	$10\frac{1}{4}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	$2\frac{5}{8}$	13	$7\frac{3}{8}$	4	7	14	$9\frac{1}{8}$
3	$10\frac{3}{8}$	12	6	4	$2\frac{3}{4}$	13	$7\frac{3}{4}$	4	$7\frac{1}{8}$	14	$9\frac{1}{2}$
3	$10\frac{1}{2}$	12	$6\frac{3}{8}$	4	$2\frac{7}{8}$	13	$8\frac{1}{8}$	4	$7\frac{1}{4}$	14	$9\frac{7}{8}$
3	$10\frac{5}{8}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	3	13	$8\frac{1}{2}$	4	$7\frac{3}{8}$	14	$10\frac{1}{4}$
3	$10\frac{3}{4}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$3\frac{1}{8}$	13	$8\frac{7}{8}$	4	$7\frac{1}{2}$	14	$10\frac{5}{8}-\frac{1}{16}$
3	$10\frac{7}{8}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	$3\frac{1}{4}$	13	$9\frac{1}{4}-\frac{1}{16}$	4	$7\frac{5}{8}$	14	$11\frac{1}{8}$
3	11	12	8	4	$3\frac{3}{8}$	13	$9\frac{5}{8}-\frac{1}{16}$	4	$7\frac{3}{4}$	14	$11\frac{1}{2}$
3	$11\frac{1}{8}$	12	$8\frac{3}{8}$	4	$3\frac{1}{2}$	13	$10\frac{1}{8}$	4	$7\frac{7}{8}$	14	$11\frac{7}{8}$
3	$11\frac{1}{4}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	$3\frac{3}{8}$	13	$10\frac{1}{2}$	4	8	15	$0\frac{1}{4}$
3	$11\frac{3}{8}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	$3\frac{3}{4}$	13	$10\frac{7}{8}$	4	$8\frac{1}{8}$	15	$0\frac{5}{8}$
3	$11\frac{1}{2}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	$3\frac{7}{8}$	13	$11\frac{1}{4}-\frac{1}{16}$	4	$8\frac{1}{4}$	15	1
3	$11\frac{5}{8}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	4	13	$11\frac{5}{8}-\frac{1}{16}$	4	$8\frac{3}{8}$	15	$1\frac{3}{8}$
3	$11\frac{3}{4}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$4\frac{1}{8}$	14	$0\frac{1}{16}$	4	$8\frac{1}{2}$	15	$1\frac{3}{4}-\frac{1}{16}$
3	$11\frac{7}{8}$	12	$10\frac{5}{8}-\frac{1}{16}$	4	$4\frac{1}{4}$	14	$0\frac{1}{2}$	4	$8\frac{3}{8}$	15	$2\frac{1}{8}-\frac{1}{16}$
4	0	12	$11\frac{1}{16}$	4	$4\frac{3}{8}$	14	$0\frac{7}{8}$	4	$8\frac{3}{4}$	15	$2\frac{1}{2}-\frac{1}{16}$
4	$0\frac{1}{8}$	12	$11\frac{1}{2}$	4	$4\frac{1}{2}$	14	$1\frac{1}{4}$	4	$8\frac{7}{8}$	15	3
4	$0\frac{1}{4}$	12	$11\frac{7}{8}$	4	$4\frac{5}{8}$	14	$1\frac{5}{8}$	4	9	15	$3\frac{3}{8}$
4	$0\frac{3}{8}$	13	$0\frac{1}{4}-\frac{1}{16}$	4	$4\frac{3}{4}$	14	2	4	$9\frac{1}{8}$	15	$3\frac{3}{4}-\frac{1}{16}$
4	$0\frac{1}{2}$	13	$0\frac{5}{8}-\frac{1}{16}$	4	$4\frac{7}{8}$	14	$2\frac{3}{8}$	4	$9\frac{1}{4}$	15	$4\frac{1}{8}-\frac{1}{16}$
4	$0\frac{5}{8}$	13	$1\frac{1}{16}$	4	5	14	$2\frac{3}{4}-\frac{1}{16}$	4	$9\frac{3}{8}$	15	$4\frac{1}{2}-\frac{1}{16}$
4	$0\frac{3}{4}$	13	$1\frac{1}{2}$	4	$5\frac{1}{8}$	14	$3\frac{1}{8}-\frac{1}{16}$	4	$9\frac{1}{2}$	15	5
4	$0\frac{7}{8}$	13	$1\frac{7}{8}$	4	$5\frac{1}{4}$	14	$3\frac{1}{2}-\frac{1}{16}$	4	$9\frac{5}{8}$	15	$5\frac{3}{8}$
4	1	13	$2\frac{1}{4}-\frac{1}{16}$	4	$5\frac{3}{8}$	14	4	4	$9\frac{3}{4}$	15	$5\frac{3}{4}$
4	$1\frac{1}{8}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	$5\frac{1}{2}$	14	$4\frac{3}{8}$	4	$9\frac{7}{8}$	15	$6\frac{1}{8}$
4	$1\frac{1}{4}$	13	$3\frac{1}{16}$	4	$5\frac{5}{8}$	14	$4\frac{3}{4}-\frac{1}{16}$	4	10	15	$6\frac{1}{2}$
4	$1\frac{3}{8}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	$5\frac{3}{4}$	14	$5\frac{1}{8}-\frac{1}{16}$	4	$10\frac{1}{8}$	15	$6\frac{7}{8}$
4	$1\frac{1}{2}$	13	$3\frac{3}{4}-\frac{1}{16}$	4	$5\frac{7}{8}$	14	$5\frac{1}{2}-\frac{1}{16}$	4	$10\frac{1}{4}$	15	$7\frac{1}{4}-\frac{1}{16}$
4	$1\frac{5}{8}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	6	14	6	4	$10\frac{3}{8}$	15	$7\frac{3}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE).

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	10 $\frac{1}{2}$	15	8 $\frac{1}{8}$	5	2 $\frac{7}{8}$	16	9 $\frac{7}{8}$	5	7 $\frac{1}{4}$	17	11 $\frac{1}{2}$ - $\frac{1}{16}$
4	10 $\frac{5}{8}$	15	8 $\frac{1}{2}$	5	3	16	10 $\frac{1}{4}$	5	7 $\frac{3}{8}$	18	0
4	10 $\frac{3}{4}$	15	8 $\frac{7}{8}$	5	3 $\frac{1}{8}$	16	10 $\frac{5}{8}$	5	7 $\frac{1}{2}$	18	0 $\frac{3}{8}$
4	10 $\frac{7}{8}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$	5	3 $\frac{1}{4}$	16	11	5	7 $\frac{5}{8}$	18	0 $\frac{3}{4}$ - $\frac{1}{16}$
4	11	15	9 $\frac{5}{8}$ - $\frac{1}{16}$	5	3 $\frac{3}{8}$	16	11 $\frac{3}{8}$	5	7 $\frac{3}{4}$	18	1 $\frac{1}{8}$ - $\frac{1}{16}$
4	11 $\frac{1}{8}$	15	10 $\frac{1}{16}$	5	3 $\frac{1}{2}$	16	11 $\frac{3}{4}$ - $\frac{1}{16}$	5	7 $\frac{7}{8}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$
4	11 $\frac{1}{4}$	15	10 $\frac{1}{2}$	5	3 $\frac{5}{8}$	17	0 $\frac{1}{8}$ - $\frac{1}{16}$	5	8	18	1 $\frac{7}{8}$ - $\frac{1}{16}$
4	11 $\frac{3}{8}$	15	10 $\frac{7}{8}$	5	3 $\frac{3}{4}$	17	0 $\frac{1}{2}$ - $\frac{1}{16}$	5	8 $\frac{1}{8}$	18	2 $\frac{1}{4}$ - $\frac{1}{16}$
4	11 $\frac{1}{2}$	15	11 $\frac{1}{4}$	5	3 $\frac{7}{8}$	17	1	5	8 $\frac{1}{4}$	18	2 $\frac{5}{8}$ - $\frac{1}{16}$
4	11 $\frac{5}{8}$	15	11 $\frac{5}{8}$	5	4	17	1 $\frac{3}{8}$	5	8 $\frac{3}{8}$	18	3 $\frac{1}{8}$
4	11 $\frac{3}{4}$	16	0	5	4 $\frac{1}{8}$	17	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	8 $\frac{1}{2}$	18	3 $\frac{1}{2}$
4	11 $\frac{7}{8}$	16	0 $\frac{3}{8}$	5	4 $\frac{1}{4}$	17	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	8 $\frac{5}{8}$	18	3 $\frac{7}{8}$
5	0	16	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	4 $\frac{3}{8}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	8 $\frac{3}{4}$	18	4 $\frac{1}{4}$ - $\frac{1}{16}$
5	0 $\frac{1}{8}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$	5	4 $\frac{1}{2}$	17	3	5	8 $\frac{7}{8}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$
5	0 $\frac{1}{4}$	16	1 $\frac{1}{2}$ - $\frac{1}{16}$	5	4 $\frac{5}{8}$	17	3 $\frac{3}{8}$	5	9	18	5 $\frac{1}{8}$
5	0 $\frac{3}{8}$	16	2	5	4 $\frac{3}{4}$	17	3 $\frac{3}{4}$	5	9 $\frac{1}{8}$	18	5 $\frac{1}{2}$
5	0 $\frac{1}{2}$	16	2 $\frac{3}{8}$	5	4 $\frac{7}{8}$	17	4 $\frac{1}{8}$	5	9 $\frac{1}{4}$	18	5 $\frac{7}{8}$
5	0 $\frac{5}{8}$	16	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	5	17	4 $\frac{1}{2}$	5	9 $\frac{3}{8}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$
5	0 $\frac{3}{4}$	16	3 $\frac{1}{8}$ - $\frac{1}{16}$	5	5 $\frac{1}{8}$	17	4 $\frac{7}{8}$	5	9 $\frac{1}{2}$	18	6 $\frac{5}{8}$ - $\frac{1}{16}$
5	0 $\frac{7}{8}$	16	3 $\frac{1}{2}$ - $\frac{1}{16}$	5	5 $\frac{1}{4}$	17	5 $\frac{1}{4}$	5	9 $\frac{5}{8}$	18	7 $\frac{1}{16}$
5	1	16	4	5	5 $\frac{3}{8}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$	5	9 $\frac{3}{4}$	18	7 $\frac{3}{8}$ - $\frac{1}{16}$
5	1 $\frac{1}{8}$	16	4 $\frac{3}{8}$	5	5 $\frac{1}{2}$	17	6 $\frac{1}{8}$	5	9 $\frac{7}{8}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$
5	1 $\frac{1}{4}$	16	4 $\frac{3}{4}$	5	5 $\frac{5}{8}$	17	6 $\frac{1}{2}$	5	10	18	8 $\frac{1}{8}$ - $\frac{1}{16}$
5	1 $\frac{3}{8}$	16	5 $\frac{1}{8}$	5	5 $\frac{3}{4}$	17	6 $\frac{7}{8}$	5	10 $\frac{1}{8}$	18	8 $\frac{1}{2}$ - $\frac{1}{16}$
5	1 $\frac{1}{2}$	16	5 $\frac{1}{2}$	5	5 $\frac{7}{8}$	17	7 $\frac{1}{4}$	5	10 $\frac{1}{4}$	18	9
5	1 $\frac{5}{8}$	16	5 $\frac{7}{8}$	5	6	17	7 $\frac{5}{8}$ - $\frac{1}{16}$	5	10 $\frac{3}{8}$	18	9 $\frac{3}{8}$
5	1 $\frac{3}{4}$	16	6 $\frac{1}{4}$ - $\frac{1}{16}$	5	6 $\frac{1}{8}$	17	8 $\frac{1}{8}$	5	10 $\frac{1}{2}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$
5	1 $\frac{7}{8}$	16	6 $\frac{5}{8}$ - $\frac{1}{16}$	5	6 $\frac{1}{4}$	17	8 $\frac{1}{2}$	5	10 $\frac{5}{8}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$
5	2	16	7 $\frac{1}{8}$	5	6 $\frac{3}{8}$	17	8 $\frac{7}{8}$	5	10 $\frac{3}{4}$	18	10 $\frac{1}{2}$ - $\frac{1}{16}$
5	2 $\frac{1}{8}$	16	7 $\frac{1}{2}$	5	6 $\frac{1}{2}$	17	9 $\frac{1}{4}$	5	10 $\frac{7}{8}$	18	11
5	2 $\frac{1}{4}$	16	7 $\frac{7}{8}$	5	6 $\frac{5}{8}$	17	9 $\frac{5}{8}$	5	11	18	11 $\frac{3}{8}$
5	2 $\frac{3}{8}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	6 $\frac{3}{4}$	17	10	5	11 $\frac{1}{8}$	18	11 $\frac{3}{4}$ - $\frac{1}{16}$
5	2 $\frac{1}{2}$	16	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	6 $\frac{7}{8}$	17	10 $\frac{3}{8}$	5	11 $\frac{1}{4}$	19	0 $\frac{1}{8}$ - $\frac{1}{16}$
5	2 $\frac{5}{8}$	16	9 $\frac{1}{8}$	5	7	17	10 $\frac{3}{4}$ - $\frac{1}{16}$	5	11 $\frac{3}{8}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$
5	2 $\frac{3}{4}$	16	9 $\frac{1}{2}$	5	7 $\frac{1}{8}$	17	11 $\frac{1}{8}$ - $\frac{1}{16}$	5	11 $\frac{1}{2}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	11 $\frac{5}{8}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	4	20	3 $\frac{1}{8}$	6	8 $\frac{3}{8}$	21	4 $\frac{3}{4}$ - $\frac{1}{16}$
5	11 $\frac{3}{4}$	19	1 $\frac{3}{8}$ - $\frac{1}{16}$	6	4 $\frac{1}{8}$	20	3 $\frac{1}{2}$	6	8 $\frac{1}{2}$	21	5 $\frac{1}{8}$ - $\frac{1}{16}$
5	11 $\frac{7}{8}$	19	2 $\frac{1}{8}$	6	4 $\frac{1}{4}$	20	3 $\frac{7}{8}$	6	8 $\frac{5}{8}$	21	5 $\frac{1}{2}$ - $\frac{1}{16}$
6	0	19	2 $\frac{1}{2}$	6	4 $\frac{3}{8}$	20	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{3}{4}$	21	6
6	0 $\frac{1}{8}$	19	2 $\frac{7}{8}$	6	4 $\frac{1}{2}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	8 $\frac{7}{8}$	21	6 $\frac{3}{8}$
6	0 $\frac{1}{4}$	19	3 $\frac{1}{4}$ - $\frac{1}{16}$	6	4 $\frac{5}{8}$	20	5 $\frac{1}{16}$	6	9	21	6 $\frac{3}{4}$ - $\frac{1}{16}$
6	0 $\frac{3}{8}$	19	3 $\frac{3}{8}$ - $\frac{1}{16}$	6	4 $\frac{3}{4}$	20	5 $\frac{3}{8}$ - $\frac{1}{16}$	6	9 $\frac{1}{8}$	21	7 $\frac{1}{8}$ - $\frac{1}{16}$
6	0 $\frac{1}{2}$	19	4 $\frac{1}{8}$	6	4 $\frac{7}{8}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$	6	9 $\frac{1}{4}$	21	7 $\frac{1}{2}$ - $\frac{1}{16}$
6	0 $\frac{5}{8}$	19	4 $\frac{1}{2}$	6	5	20	6 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{3}{8}$	21	8
6	0 $\frac{3}{4}$	19	4 $\frac{7}{8}$	6	5 $\frac{1}{8}$	20	6 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{1}{2}$	21	8 $\frac{3}{8}$
6	0 $\frac{7}{8}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	5 $\frac{1}{4}$	20	7	6	9 $\frac{5}{8}$	21	8 $\frac{3}{4}$
6	1	19	5 $\frac{5}{8}$ - $\frac{1}{16}$	6	5 $\frac{3}{8}$	20	7 $\frac{3}{8}$	6	9 $\frac{3}{4}$	21	9 $\frac{1}{8}$
6	1 $\frac{1}{8}$	19	6 $\frac{1}{8}$	6	5 $\frac{1}{2}$	20	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	9 $\frac{7}{8}$	21	9 $\frac{1}{2}$
6	1 $\frac{1}{4}$	19	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	5 $\frac{5}{8}$	20	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	10	21	9 $\frac{7}{8}$
6	1 $\frac{3}{8}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{3}{4}$	20	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	10 $\frac{1}{8}$	21	10 $\frac{1}{4}$ - $\frac{1}{16}$
6	1 $\frac{1}{2}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{7}{8}$	20	9	6	10 $\frac{1}{4}$	21	10 $\frac{3}{8}$ - $\frac{1}{16}$
6	1 $\frac{5}{8}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$	6	6	20	9 $\frac{3}{8}$	6	10 $\frac{3}{8}$	21	11 $\frac{1}{8}$
6	1 $\frac{3}{4}$	19	8	6	6 $\frac{1}{8}$	20	9 $\frac{3}{4}$	6	10 $\frac{1}{2}$	21	11 $\frac{1}{2}$
6	1 $\frac{7}{8}$	19	8 $\frac{3}{8}$	6	6 $\frac{1}{4}$	20	10 $\frac{1}{8}$	6	10 $\frac{5}{8}$	21	11 $\frac{7}{8}$
6	2	19	8 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{3}{8}$	20	10 $\frac{1}{2}$	6	10 $\frac{3}{4}$	22	0 $\frac{1}{4}$ - $\frac{1}{16}$
6	2 $\frac{1}{8}$	19	9 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{1}{2}$	20	10 $\frac{7}{8}$	6	10 $\frac{7}{8}$	22	0 $\frac{5}{8}$ - $\frac{1}{16}$
6	2 $\frac{1}{4}$	19	9 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{5}{8}$	20	11 $\frac{1}{4}$ - $\frac{1}{16}$	6	11	22	1 $\frac{1}{8}$
6	2 $\frac{3}{8}$	19	10	6	6 $\frac{3}{4}$	20	11 $\frac{5}{8}$ - $\frac{1}{16}$	6	11 $\frac{1}{8}$	22	1 $\frac{1}{2}$
6	2 $\frac{1}{2}$	19	10 $\frac{3}{8}$	6	6 $\frac{7}{8}$	21	0 $\frac{1}{8}$	6	11 $\frac{1}{4}$	22	1 $\frac{7}{8}$
6	2 $\frac{5}{8}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	7	21	0 $\frac{1}{2}$	6	11 $\frac{3}{8}$	22	2 $\frac{1}{4}$
6	2 $\frac{3}{4}$	19	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	7 $\frac{1}{8}$	21	0 $\frac{7}{8}$	6	11 $\frac{1}{2}$	22	2 $\frac{5}{8}$
6	2 $\frac{7}{8}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	7 $\frac{1}{4}$	21	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	11 $\frac{5}{8}$	22	3
6	3	19	11 $\frac{7}{8}$ - $\frac{1}{16}$	6	7 $\frac{3}{8}$	21	1 $\frac{5}{8}$ - $\frac{1}{16}$	6	11 $\frac{3}{4}$	22	3 $\frac{3}{8}$
6	3 $\frac{1}{8}$	20	0 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{1}{2}$	21	2 $\frac{1}{8}$	6	11 $\frac{7}{8}$	22	3 $\frac{3}{4}$ - $\frac{1}{16}$
6	3 $\frac{1}{4}$	20	0 $\frac{5}{8}$ - $\frac{1}{16}$	6	7 $\frac{5}{8}$	21	2 $\frac{1}{2}$	7	0	22	4 $\frac{1}{8}$ - $\frac{1}{16}$
6	3 $\frac{3}{8}$	20	1 $\frac{1}{8}$	6	7 $\frac{3}{4}$	21	2 $\frac{7}{8}$	7	0 $\frac{1}{8}$	22	4 $\frac{1}{2}$ - $\frac{1}{16}$
6	3 $\frac{1}{2}$	20	1 $\frac{1}{2}$	6	7 $\frac{7}{8}$	21	3 $\frac{1}{4}$	7	0 $\frac{1}{4}$	22	5
6	3 $\frac{5}{8}$	20	1 $\frac{7}{8}$	6	8	21	3 $\frac{5}{8}$	7	0 $\frac{3}{8}$	22	5 $\frac{3}{8}$
6	3 $\frac{3}{4}$	20	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{1}{8}$	21	4	7	0 $\frac{1}{2}$	22	5 $\frac{3}{4}$ - $\frac{1}{16}$
6	3 $\frac{7}{8}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	8 $\frac{1}{4}$	21	4 $\frac{3}{8}$	7	0 $\frac{5}{8}$	22	6 $\frac{1}{8}$ - $\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE OUTSIDE).

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DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	$0\frac{3}{4}$	22	$6\frac{1}{2}-\frac{1}{16}$	7	$5\frac{1}{8}$	23	$8\frac{1}{4}-\frac{1}{16}$	7	$9\frac{1}{2}$	24	$10\frac{1}{16}$
7	$0\frac{7}{8}$	22	7	7	$5\frac{1}{4}$	23	$8\frac{5}{8}-\frac{1}{16}$	7	$9\frac{5}{8}$	24	$10\frac{3}{8}-\frac{1}{16}$
7	1	22	$7\frac{3}{8}$	7	$5\frac{3}{8}$	23	$9-\frac{1}{16}$	7	$9\frac{3}{4}$	24	$10\frac{3}{4}-\frac{1}{16}$
7	$1\frac{1}{8}$	22	$7\frac{3}{4}$	7	$5\frac{1}{2}$	23	$9\frac{1}{2}$	7	$9\frac{7}{8}$	24	$11\frac{1}{8}-\frac{1}{16}$
7	$1\frac{1}{4}$	22	$8\frac{1}{8}$	7	$5\frac{5}{8}$	23	$9\frac{7}{8}$	7	10	24	$11\frac{1}{2}-\frac{1}{16}$
7	$1\frac{3}{8}$	22	$8\frac{1}{2}$	7	$5\frac{3}{4}$	23	$10\frac{1}{4}-\frac{1}{16}$	7	$10\frac{1}{8}$	25	0
7	$1\frac{1}{2}$	22	$8\frac{7}{8}$	7	$5\frac{7}{8}$	23	$10\frac{5}{8}-\frac{1}{16}$	7	$10\frac{1}{4}$	25	$0\frac{3}{8}$
7	$1\frac{5}{8}$	22	$9\frac{1}{4}-\frac{1}{16}$	7	6	23	$11-\frac{1}{16}$	7	$10\frac{3}{8}$	25	$0\frac{3}{4}-\frac{1}{16}$
7	$1\frac{3}{4}$	22	$9\frac{5}{8}-\frac{1}{16}$	7	$6\frac{1}{8}$	23	$11\frac{3}{8}-\frac{1}{16}$	7	$10\frac{1}{2}$	25	$1\frac{1}{8}-\frac{1}{16}$
7	$1\frac{7}{8}$	22	$10\frac{1}{8}$	7	$6\frac{1}{4}$	23	$11\frac{3}{4}-\frac{1}{16}$	7	$10\frac{5}{8}$	25	$1\frac{1}{2}-\frac{1}{16}$
7	2	22	$10\frac{1}{2}$	7	$6\frac{3}{8}$	24	$0\frac{1}{8}-\frac{1}{16}$	7	$10\frac{3}{4}$	25	2
7	$2\frac{1}{8}$	22	$10\frac{7}{8}$	7	$6\frac{1}{2}$	24	$0\frac{1}{2}-\frac{1}{16}$	7	$10\frac{7}{8}$	25	$2\frac{3}{8}$
7	$2\frac{1}{4}$	22	$11\frac{1}{4}-\frac{1}{16}$	7	$6\frac{5}{8}$	24	1	7	11	25	$2\frac{3}{4}-\frac{1}{16}$
7	$2\frac{3}{8}$	22	$11\frac{5}{8}-\frac{1}{16}$	7	$6\frac{3}{4}$	24	$1\frac{3}{8}$	7	$11\frac{1}{8}$	25	$3\frac{1}{8}-\frac{1}{16}$
7	$2\frac{1}{2}$	23	$0\frac{1}{8}$	7	$6\frac{7}{8}$	24	$1\frac{3}{4}-\frac{1}{16}$	7	$11\frac{1}{4}$	25	$3\frac{1}{2}-\frac{1}{16}$
7	$2\frac{5}{8}$	23	$0\frac{1}{2}$	7	7	24	$2\frac{1}{8}-\frac{1}{16}$	7	$11\frac{3}{8}$	25	$3\frac{7}{8}-\frac{1}{16}$
7	$2\frac{3}{4}$	23	$0\frac{7}{8}$	7	$7\frac{1}{8}$	24	$2\frac{1}{2}-\frac{1}{16}$	7	$11\frac{1}{2}$	25	$4\frac{1}{4}-\frac{1}{16}$
7	$2\frac{7}{8}$	23	$1\frac{1}{4}$	7	$7\frac{1}{4}$	24	3	7	$11\frac{5}{8}$	25	$4\frac{5}{8}-\frac{1}{16}$
7	3	23	$1\frac{5}{8}$	7	$7\frac{3}{8}$	24	$3\frac{3}{8}$	7	$11\frac{3}{4}$	25	$5\frac{1}{8}$
7	$3\frac{1}{8}$	23	2	7	$7\frac{1}{2}$	24	$3\frac{3}{4}-\frac{1}{16}$	7	$11\frac{7}{8}$	25	$5\frac{1}{2}$
7	$3\frac{1}{4}$	23	$2\frac{3}{8}$	7	$7\frac{5}{8}$	24	$4\frac{1}{8}-\frac{1}{16}$	8	0	25	$5\frac{7}{8}$
7	$3\frac{3}{8}$	23	$2\frac{3}{4}-\frac{1}{16}$	7	$7\frac{3}{4}$	24	$4\frac{1}{2}-\frac{1}{16}$	8	$0\frac{1}{8}$	25	$6\frac{1}{4}-\frac{1}{16}$
7	$3\frac{1}{2}$	23	$3\frac{1}{8}-\frac{1}{16}$	7	$7\frac{7}{8}$	24	5	8	$0\frac{1}{4}$	25	$6\frac{5}{8}-\frac{1}{16}$
7	$3\frac{5}{8}$	23	$3\frac{1}{2}-\frac{1}{16}$	7	8	24	$5\frac{3}{8}$	8	$0\frac{3}{8}$	25	$7\frac{1}{8}$
7	$3\frac{3}{4}$	23	4	7	$8\frac{1}{8}$	24	$5\frac{3}{4}$	8	$0\frac{1}{2}$	25	$7\frac{1}{2}$
7	$3\frac{7}{8}$	23	$4\frac{3}{8}$	7	$8\frac{1}{4}$	24	$6\frac{1}{8}$	8	$0\frac{5}{8}$	25	$7\frac{7}{8}$
7	4	23	$4\frac{3}{4}-\frac{1}{16}$	7	$8\frac{3}{8}$	24	$6\frac{1}{2}$	8	$0\frac{3}{4}$	25	$8\frac{1}{4}-\frac{1}{16}$
7	$4\frac{1}{8}$	23	$5\frac{1}{8}-\frac{1}{16}$	7	$8\frac{1}{2}$	24	$6\frac{7}{8}$	8	$0\frac{7}{8}$	25	$8\frac{5}{8}-\frac{1}{16}$
7	$4\frac{1}{4}$	23	$5\frac{1}{2}-\frac{1}{16}$	7	$8\frac{5}{8}$	24	$7\frac{1}{4}-\frac{1}{16}$	8	1	25	$9-\frac{1}{16}$
7	$4\frac{3}{8}$	23	6	7	$8\frac{3}{4}$	24	$7\frac{5}{8}-\frac{1}{16}$	8	$1\frac{1}{8}$	25	$9\frac{3}{8}-\frac{1}{16}$
7	$4\frac{1}{2}$	23	$6\frac{3}{8}$	7	$8\frac{7}{8}$	24	$8\frac{1}{8}$	8	$1\frac{1}{4}$	25	$9\frac{3}{4}-\frac{1}{16}$
7	$4\frac{5}{8}$	23	$6\frac{3}{4}$	7	9	24	$8\frac{1}{2}$	8	$1\frac{3}{8}$	25	$10\frac{1}{8}-\frac{1}{16}$
7	$4\frac{3}{4}$	23	$7\frac{1}{8}$	7	$9\frac{1}{8}$	24	$8\frac{7}{8}$	8	$1\frac{1}{2}$	25	$10\frac{1}{2}-\frac{1}{16}$
7	$4\frac{7}{8}$	23	$7\frac{1}{2}$	7	$9\frac{1}{4}$	24	$9\frac{1}{4}-\frac{1}{16}$	8	$1\frac{5}{8}$	25	11
7	5	23	$7\frac{7}{8}$	7	$9\frac{3}{8}$	24	$9\frac{5}{8}-\frac{1}{16}$	8	$1\frac{3}{4}$	25	$11\frac{3}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$1\frac{7}{8}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$5\frac{3}{8}$	26	$10\frac{3}{4}$	8	$8\frac{7}{8}$	27	$9\frac{3}{4}$
8	2	26	$0\frac{1}{8}-\frac{1}{16}$	8	$5\frac{1}{2}$	26	$11\frac{1}{8}-\frac{1}{16}$	8	9	27	$10\frac{1}{4}$
8	$2\frac{1}{8}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	$5\frac{5}{8}$	26	$11\frac{1}{2}-\frac{1}{16}$	8	$9\frac{1}{8}$	27	$10\frac{1}{2}$
8	$2\frac{1}{4}$	26	1	8	$5\frac{3}{4}$	26	$11\frac{3}{8}-\frac{1}{16}$	8	$9\frac{1}{4}$	27	$10\frac{7}{8}-\frac{1}{16}$
8	$2\frac{3}{8}$	26	$1\frac{3}{8}$	8	$5\frac{7}{8}$	27	$0\frac{1}{4}-\frac{1}{16}$	8	$9\frac{3}{8}$	27	$11\frac{1}{4}-\frac{1}{16}$
8	$2\frac{1}{2}$	26	$1\frac{3}{4}-\frac{1}{16}$	8	6	27	$0\frac{3}{8}-\frac{1}{16}$	8	$9\frac{1}{2}$	27	$11\frac{3}{4}$
8	$2\frac{5}{8}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$6\frac{1}{8}$	27	$1\frac{1}{16}$	8	$9\frac{5}{8}$	28	$0\frac{1}{8}$
8	$2\frac{3}{4}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	$6\frac{1}{4}$	27	$1\frac{1}{2}$	8	$9\frac{3}{4}$	28	$0\frac{1}{2}$
8	$2\frac{7}{8}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$6\frac{3}{8}$	27	$1\frac{7}{8}-\frac{1}{16}$	8	$9\frac{7}{8}$	28	$0\frac{7}{8}$
8	3	26	$3\frac{1}{4}-\frac{1}{16}$	8	$6\frac{1}{2}$	27	$2\frac{1}{4}-\frac{1}{16}$	8	10	28	$1\frac{1}{4}-\frac{1}{16}$
8	$3\frac{1}{8}$	26	$3\frac{5}{8}-\frac{1}{16}$	8	$6\frac{3}{8}$	27	$2\frac{3}{8}-\frac{1}{16}$	8	$10\frac{1}{8}$	28	$1\frac{5}{8}-\frac{1}{16}$
8	$3\frac{1}{4}$	26	$4\frac{1}{8}$	8	$6\frac{3}{4}$	27	$3\frac{1}{16}$	8	$10\frac{1}{4}$	28	$2\frac{1}{16}$
8	$3\frac{3}{8}$	26	$4\frac{1}{2}$	8	$6\frac{7}{8}$	27	$3\frac{1}{2}$	8	$10\frac{3}{8}$	28	$2\frac{1}{2}$
8	$3\frac{1}{2}$	26	$4\frac{7}{8}$	8	7	27	$3\frac{7}{8}$	8	$10\frac{1}{2}$	28	$2\frac{7}{8}$
8	$3\frac{5}{8}$	26	$5\frac{1}{4}-\frac{1}{16}$	8	$7\frac{1}{8}$	27	$4\frac{1}{4}$	8	$10\frac{5}{8}$	28	$3\frac{1}{4}$
8	$3\frac{3}{4}$	26	$5\frac{5}{8}-\frac{1}{16}$	8	$7\frac{1}{4}$	27	$4\frac{5}{8}-\frac{1}{16}$	8	$10\frac{3}{4}$	28	$3\frac{5}{8}$
8	$3\frac{7}{8}$	26	$6\frac{1}{16}$	8	$7\frac{3}{8}$	27	$5\frac{1}{16}$	8	$10\frac{7}{8}$	28	4
8	4	26	$6\frac{3}{8}-\frac{1}{16}$	8	$7\frac{1}{2}$	27	$5\frac{3}{8}-\frac{1}{16}$	8	11	28	$4\frac{3}{8}-\frac{1}{16}$
8	$4\frac{1}{8}$	26	$6\frac{3}{4}-\frac{1}{16}$	8	$7\frac{5}{8}$	27	$5\frac{3}{4}-\frac{1}{16}$	8	$11\frac{1}{8}$	28	$4\frac{7}{8}$
8	$4\frac{1}{4}$	26	$7\frac{1}{4}$	8	$7\frac{3}{4}$	27	$6\frac{1}{4}$	8	$11\frac{1}{4}$	28	$5\frac{1}{4}$
8	$4\frac{3}{8}$	26	$7\frac{5}{8}$	8	$7\frac{7}{8}$	27	$6\frac{5}{8}$	8	$11\frac{3}{8}$	28	$5\frac{5}{8}$
8	$4\frac{1}{2}$	26	8	8	8	27	7	8	$11\frac{1}{2}$	28	6
8	$4\frac{5}{8}$	26	$8\frac{3}{8}-\frac{1}{16}$	8	$8\frac{1}{8}$	27	$7\frac{3}{8}-\frac{1}{16}$	8	$11\frac{5}{8}$	28	$6\frac{3}{8}$
8	$4\frac{3}{4}$	26	$8\frac{3}{4}-\frac{1}{16}$	8	$8\frac{1}{4}$	27	$7\frac{3}{4}-\frac{1}{16}$	8	$11\frac{3}{4}$	28	$6\frac{3}{4}-\frac{1}{16}$
8	$4\frac{7}{8}$	26	$9\frac{1}{8}-\frac{1}{16}$	8	$8\frac{3}{8}$	27	$8\frac{1}{8}-\frac{1}{16}$	8	$11\frac{7}{8}$	28	$7\frac{1}{8}-\frac{1}{16}$
8	5	26	$9\frac{1}{2}-\frac{1}{16}$	8	$8\frac{1}{2}$	27	$8\frac{1}{2}-\frac{1}{16}$	9	0	28	$7\frac{1}{2}-\frac{1}{16}$
8	$5\frac{1}{8}$	26	10	8	$8\frac{5}{8}$	27	9				
8	$5\frac{1}{4}$	26	$10\frac{3}{8}$	8	$8\frac{3}{4}$	27	$9\frac{3}{8}$				

ANGLE-IRON RINGS (FLANGE OUTSIDE). 63

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	$6\frac{3}{8}$	1	$4\frac{3}{8}$	4	$8\frac{1}{8}$	1	$8\frac{3}{4}$	5	$9\frac{7}{8}$
1	$0\frac{1}{8}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	$4\frac{1}{2}$	4	$8\frac{1}{2}$	1	$8\frac{7}{8}$	5	$10\frac{1}{4}$
1	$0\frac{1}{4}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	$4\frac{5}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	9	5	$10\frac{5}{8}$
1	$0\frac{3}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$4\frac{3}{4}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$9\frac{1}{8}$	5	$11\frac{1}{16}$
1	$0\frac{1}{2}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$4\frac{7}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	1	$9\frac{1}{4}$	5	$11\frac{3}{8}-\frac{1}{16}$
1	$0\frac{5}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	5	4	$10\frac{1}{16}$	1	$9\frac{3}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$0\frac{3}{4}$	3	$8\frac{3}{4}$	1	$5\frac{1}{8}$	4	$10\frac{1}{2}$	1	$9\frac{1}{2}$	6	$0\frac{1}{4}$
1	$0\frac{7}{8}$	3	$9\frac{1}{8}$	1	$5\frac{1}{4}$	4	$10\frac{7}{8}$	1	$9\frac{5}{8}$	6	$0\frac{5}{8}$
1	1	3	$9\frac{1}{2}-\frac{1}{16}$	1	$5\frac{3}{8}$	4	$11\frac{1}{4}$	1	$9\frac{3}{4}$	6	1
1	$1\frac{1}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$5\frac{1}{2}$	4	$11\frac{5}{8}-\frac{1}{16}$	1	$9\frac{7}{8}$	6	$1\frac{3}{8}$
1	$1\frac{1}{4}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$5\frac{5}{8}$	5	$0\frac{1}{16}$	1	10	6	$1\frac{3}{4}-\frac{1}{16}$
1	$1\frac{3}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$5\frac{3}{4}$	5	$0\frac{3}{8}-\frac{1}{16}$	1	$10\frac{1}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	$1\frac{1}{2}$	3	$11\frac{1}{16}$	1	$5\frac{7}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{4}$	6	$2\frac{1}{2}-\frac{1}{16}$
1	$1\frac{5}{8}$	3	$11\frac{1}{2}$	1	6	5	$1\frac{1}{4}$	1	$10\frac{3}{8}$	6	3
1	$1\frac{3}{4}$	3	$11\frac{7}{8}$	1	$6\frac{1}{8}$	5	$1\frac{5}{8}$	1	$10\frac{1}{2}$	6	$3\frac{3}{8}$
1	$1\frac{7}{8}$	4	$0\frac{1}{4}$	1	$6\frac{1}{4}$	5	2	1	$10\frac{5}{8}$	6	$3\frac{3}{4}$
1	2	4	$0\frac{5}{8}-\frac{1}{16}$	1	$6\frac{3}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	1	$10\frac{3}{4}$	6	$4\frac{1}{8}$
1	$2\frac{1}{8}$	4	$1\frac{1}{16}$	1	$6\frac{1}{2}$	5	$2\frac{3}{4}-\frac{1}{16}$	1	$10\frac{7}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$
1	$2\frac{1}{4}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$6\frac{5}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	1	11	6	$4\frac{7}{8}-\frac{1}{16}$
1	$2\frac{3}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$6\frac{3}{4}$	5	$3\frac{1}{2}-\frac{1}{16}$	1	$11\frac{1}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	$2\frac{1}{2}$	4	$2\frac{1}{4}$	1	$6\frac{7}{8}$	5	4	1	$11\frac{1}{4}$	6	$5\frac{3}{4}$
1	$2\frac{5}{8}$	4	$2\frac{5}{8}$	1	7	5	$4\frac{3}{8}$	1	$11\frac{3}{8}$	6	$6\frac{1}{8}$
1	$2\frac{3}{4}$	4	$3\frac{1}{16}$	1	$7\frac{1}{8}$	5	$4\frac{3}{4}$	1	$11\frac{1}{2}$	6	$6\frac{1}{2}$
1	$2\frac{7}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$7\frac{1}{4}$	5	$5\frac{1}{8}-\frac{1}{16}$	1	$11\frac{5}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	3	4	$3\frac{3}{4}-\frac{1}{16}$	1	$7\frac{3}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	1	$11\frac{3}{4}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	$3\frac{1}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$7\frac{1}{2}$	5	$5\frac{7}{8}-\frac{1}{16}$	1	$11\frac{7}{8}$	6	$7\frac{3}{4}$
1	$3\frac{1}{4}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$7\frac{5}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	0	6	$8\frac{1}{8}$
1	$3\frac{3}{8}$	4	5	1	$7\frac{3}{4}$	5	$6\frac{3}{4}$	2	$0\frac{1}{8}$	6	$8\frac{1}{2}$
1	$3\frac{1}{2}$	4	$5\frac{3}{8}$	1	$7\frac{7}{8}$	5	$7\frac{1}{8}$	2	$0\frac{1}{4}$	6	$8\frac{7}{8}$
1	$3\frac{5}{8}$	4	$5\frac{3}{4}$	1	8	5	$7\frac{1}{2}$	2	$0\frac{3}{8}$	6	$9\frac{1}{4}$
1	$3\frac{3}{4}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$8\frac{1}{8}$	5	$7\frac{7}{8}$	2	$0\frac{1}{2}$	6	$9\frac{5}{8}-\frac{1}{16}$
1	$3\frac{7}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$8\frac{1}{4}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$0\frac{5}{8}$	6	$10\frac{1}{16}$
1	4	4	$6\frac{7}{8}-\frac{1}{16}$	1	$8\frac{3}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$0\frac{3}{4}$	6	$10\frac{3}{8}-\frac{1}{16}$
1	$4\frac{1}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$8\frac{1}{2}$	5	$9\frac{1}{16}$	2	$0\frac{7}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	$4\frac{1}{4}$	4	$7\frac{3}{4}$	1	$8\frac{5}{8}$	5	$9\frac{1}{2}$	2	1	6	$11\frac{1}{4}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	$1\frac{1}{8}$	6	$11\frac{5}{8}$	2	$5\frac{1}{2}$	8	$13\frac{3}{8}$	2	$9\frac{7}{8}$	9	$3\frac{1}{8}$
2	$1\frac{1}{4}$	7	0	2	$5\frac{5}{8}$	8	$13\frac{3}{4}-\frac{1}{16}$	2	10	9	$3\frac{1}{2}$
2	$1\frac{3}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$5\frac{3}{4}$	8	$2\frac{1}{8}-\frac{1}{16}$	2	$10\frac{1}{8}$	9	$3\frac{7}{8}$
2	$1\frac{1}{2}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	$5\frac{7}{8}$	8	$2\frac{1}{2}-\frac{1}{16}$	2	$10\frac{1}{4}$	9	$4\frac{1}{4}-\frac{1}{16}$
2	$1\frac{5}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	6	8	3	2	$10\frac{3}{8}$	9	$4\frac{5}{8}-\frac{1}{16}$
2	$1\frac{3}{4}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	$6\frac{1}{8}$	8	$3\frac{3}{8}$	2	$10\frac{1}{2}$	9	$5\frac{1}{16}$
2	$1\frac{7}{8}$	7	2	2	$6\frac{1}{4}$	8	$3\frac{3}{4}$	2	$10\frac{5}{8}$	9	$5\frac{1}{2}$
2	2	7	$2\frac{3}{8}$	2	$6\frac{3}{8}$	8	$4\frac{1}{8}$	2	$10\frac{3}{4}$	9	$5\frac{7}{8}$
2	$2\frac{1}{8}$	7	$2\frac{3}{4}$	2	$6\frac{1}{2}$	8	$4\frac{1}{2}$	2	$10\frac{7}{8}$	9	$6\frac{1}{4}-\frac{1}{16}$
2	$2\frac{1}{4}$	7	$3\frac{1}{8}$	2	$6\frac{5}{8}$	8	$4\frac{7}{8}$	2	11	9	$6\frac{5}{8}-\frac{1}{16}$
2	$2\frac{3}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$6\frac{3}{4}$	8	$5\frac{1}{4}-\frac{1}{16}$	2	$11\frac{1}{8}$	9	$7\frac{1}{16}$
2	$2\frac{1}{2}$	7	$3\frac{7}{8}-\frac{1}{16}$	2	$6\frac{7}{8}$	8	$5\frac{5}{8}-\frac{1}{16}$	2	$11\frac{1}{4}$	9	$7\frac{3}{8}-\frac{1}{16}$
2	$2\frac{5}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$	2	7	8	$6\frac{1}{16}$	2	$11\frac{3}{8}$	9	$7\frac{3}{4}-\frac{1}{16}$
2	$2\frac{3}{4}$	7	$4\frac{3}{4}$	2	$7\frac{1}{8}$	8	$6\frac{1}{2}$	2	$11\frac{1}{2}$	9	$8\frac{1}{8}-\frac{1}{16}$
2	$2\frac{7}{8}$	7	$5\frac{1}{8}$	2	$7\frac{1}{4}$	8	$6\frac{7}{8}$	2	$11\frac{5}{8}$	9	$8\frac{1}{2}-\frac{1}{16}$
2	3	7	$5\frac{1}{2}$	2	$7\frac{3}{8}$	8	$7\frac{1}{4}-\frac{1}{16}$	2	$11\frac{3}{4}$	9	9
2	$3\frac{1}{8}$	7	$5\frac{7}{8}$	2	$7\frac{1}{2}$	8	$7\frac{5}{8}-\frac{1}{16}$	2	$11\frac{7}{8}$	9	$9\frac{3}{8}$
2	$3\frac{1}{4}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	$7\frac{5}{8}$	8	$8\frac{1}{16}$	3	0	9	$9\frac{3}{4}-\frac{1}{16}$
2	$3\frac{3}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$	2	$7\frac{3}{4}$	8	$8\frac{1}{2}$	3	$0\frac{1}{8}$	9	$10\frac{1}{8}-\frac{1}{16}$
2	$3\frac{1}{2}$	7	$7\frac{1}{16}$	2	$7\frac{7}{8}$	8	$8\frac{7}{8}$	3	$0\frac{1}{4}$	9	$10\frac{1}{2}-\frac{1}{16}$
2	$3\frac{5}{8}$	7	$7\frac{3}{8}-\frac{1}{16}$	2	8	8	$9\frac{1}{8}-\frac{1}{16}$	3	$0\frac{3}{8}$	9	11
2	$3\frac{3}{4}$	7	$7\frac{7}{8}$	2	$8\frac{1}{8}$	8	$9\frac{1}{2}-\frac{1}{16}$	3	$0\frac{1}{2}$	9	$11\frac{3}{8}$
2	$3\frac{7}{8}$	7	$8\frac{1}{4}$	2	$8\frac{1}{4}$	8	10	3	$0\frac{5}{8}$	9	$11\frac{3}{4}-\frac{1}{16}$
2	4	7	$8\frac{5}{8}$	2	$8\frac{3}{8}$	8	$10\frac{3}{8}$	3	$0\frac{3}{4}$	10	$0\frac{1}{8}-\frac{1}{16}$
2	$4\frac{1}{8}$	7	$9\frac{1}{16}$	2	$8\frac{1}{2}$	8	$10\frac{3}{4}-\frac{1}{16}$	3	$0\frac{7}{8}$	10	$0\frac{1}{2}-\frac{1}{16}$
2	$4\frac{1}{4}$	7	$9\frac{3}{8}-\frac{1}{16}$	2	$8\frac{5}{8}$	8	$11\frac{1}{8}-\frac{1}{16}$	3	1	10	1
2	$4\frac{1}{2}$	7	$9\frac{3}{4}-\frac{1}{16}$	2	$8\frac{3}{4}$	8	$11\frac{5}{8}$	3	$1\frac{1}{8}$	10	$1\frac{3}{8}$
2	$4\frac{1}{2}$	7	$10\frac{1}{4}$	2	$8\frac{7}{8}$	9	0	3	$1\frac{1}{4}$	10	$1\frac{3}{4}$
2	$4\frac{3}{8}$	7	$10\frac{5}{8}$	2	9	9	$0\frac{3}{8}$	3	$1\frac{3}{8}$	10	$2\frac{1}{8}$
2	$4\frac{3}{4}$	7	11	2	$9\frac{1}{8}$	9	$0\frac{3}{4}-\frac{1}{16}$	3	$1\frac{1}{2}$	10	$2\frac{1}{2}$
2	$4\frac{7}{8}$	7	$11\frac{3}{8}$	2	$9\frac{1}{4}$	9	$1\frac{1}{8}-\frac{1}{16}$	3	$1\frac{5}{8}$	10	$2\frac{7}{8}$
2	5	7	$11\frac{3}{4}-\frac{1}{16}$	2	$9\frac{3}{8}$	9	$1\frac{3}{8}$	3	$1\frac{3}{4}$	10	$3\frac{1}{4}-\frac{1}{16}$
2	$5\frac{1}{8}$	8	$0\frac{1}{8}-\frac{1}{16}$	2	$9\frac{1}{2}$	9	2	3	$1\frac{7}{8}$	10	$3\frac{5}{8}-\frac{1}{16}$
2	$5\frac{1}{4}$	8	$0\frac{1}{2}-\frac{1}{16}$	2	$9\frac{5}{8}$	9	$2\frac{3}{8}$	3	2	10	$4\frac{1}{8}$
2	$5\frac{3}{8}$	8	1	2	$9\frac{3}{4}$	9	$2\frac{3}{4}$	3	$2\frac{1}{8}$	10	$4\frac{1}{2}$

ANGLE-IRON RINGS (FLANGE OUTSIDE).

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	2 $\frac{1}{4}$	10	4 $\frac{7}{8}$	3	6 $\frac{5}{8}$	11	6 $\frac{1}{2}$ - $\frac{1}{16}$	3	11	12	8 $\frac{3}{8}$
3	2 $\frac{3}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	6 $\frac{3}{4}$	11	7	3	11 $\frac{1}{8}$	12	8 $\frac{3}{4}$ - $\frac{1}{16}$
3	2 $\frac{1}{2}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	6 $\frac{7}{8}$	11	7 $\frac{3}{8}$	3	11 $\frac{1}{4}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$
3	2 $\frac{5}{8}$	10	6 $\frac{1}{16}$	3	7	11	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	11 $\frac{3}{8}$	12	9 $\frac{1}{2}$ - $\frac{1}{16}$
3	2 $\frac{3}{4}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{8}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	11 $\frac{1}{2}$	12	9 $\frac{7}{8}$ - $\frac{1}{16}$
3	2 $\frac{7}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{1}{4}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	11 $\frac{5}{8}$	12	10 $\frac{1}{4}$ - $\frac{1}{16}$
3	3	10	7 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{3}{8}$	11	9	3	11 $\frac{3}{4}$	12	10 $\frac{5}{8}$ - $\frac{1}{16}$
3	3 $\frac{1}{8}$	10	7 $\frac{5}{8}$	3	7 $\frac{1}{2}$	11	9 $\frac{3}{8}$	3	11 $\frac{7}{8}$	12	11 $\frac{1}{16}$
3	3 $\frac{1}{4}$	10	8	3	7 $\frac{5}{8}$	11	9 $\frac{3}{4}$ - $\frac{1}{16}$	4	0	12	11 $\frac{1}{2}$
3	3 $\frac{3}{8}$	10	8 $\frac{3}{8}$	3	7 $\frac{3}{4}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$	4	0 $\frac{1}{8}$	12	11 $\frac{7}{8}$
3	3 $\frac{1}{2}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{7}{8}$	11	10 $\frac{1}{2}$ - $\frac{1}{16}$	4	0 $\frac{1}{4}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$
3	3 $\frac{5}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	8	11	10 $\frac{7}{8}$ - $\frac{1}{16}$	4	0 $\frac{3}{8}$	13	0 $\frac{5}{8}$ - $\frac{1}{16}$
3	3 $\frac{3}{4}$	10	9 $\frac{5}{8}$	3	8 $\frac{1}{8}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	0 $\frac{1}{2}$	13	1 $\frac{1}{16}$
3	3 $\frac{7}{8}$	10	10	3	8 $\frac{1}{4}$	11	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{5}{8}$	13	1 $\frac{1}{2}$
3	4	10	10 $\frac{3}{8}$	3	8 $\frac{3}{8}$	12	0 $\frac{1}{16}$	4	0 $\frac{3}{4}$	13	1 $\frac{7}{8}$
3	4 $\frac{1}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	8 $\frac{1}{2}$	12	0 $\frac{1}{2}$	4	0 $\frac{7}{8}$	13	2 $\frac{1}{4}$ - $\frac{1}{16}$
3	4 $\frac{1}{4}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{5}{8}$	12	0 $\frac{7}{8}$	4	1	13	2 $\frac{5}{8}$ - $\frac{1}{16}$
3	4 $\frac{3}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$	3	8 $\frac{3}{4}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$	4	1 $\frac{1}{8}$	13	3 $\frac{1}{16}$
3	4 $\frac{1}{2}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$	3	8 $\frac{7}{8}$	12	1 $\frac{5}{8}$ - $\frac{1}{16}$	4	1 $\frac{1}{4}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$
3	4 $\frac{5}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$	3	9	12	2 $\frac{1}{16}$	4	1 $\frac{3}{8}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$
3	4 $\frac{3}{4}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{1}{8}$	12	2 $\frac{1}{2}$	4	1 $\frac{1}{2}$	13	4 $\frac{1}{8}$ - $\frac{1}{16}$
3	4 $\frac{7}{8}$	11	1 $\frac{1}{16}$	3	9 $\frac{1}{4}$	12	2 $\frac{7}{8}$	4	1 $\frac{5}{8}$	13	4 $\frac{1}{2}$ - $\frac{1}{16}$
3	5	11	1 $\frac{1}{2}$	3	9 $\frac{3}{8}$	12	3 $\frac{1}{4}$ - $\frac{1}{16}$	4	1 $\frac{3}{4}$	13	5
3	5 $\frac{1}{8}$	11	1 $\frac{7}{8}$	3	9 $\frac{1}{2}$	12	3 $\frac{5}{8}$ - $\frac{1}{16}$	4	1 $\frac{7}{8}$	13	5 $\frac{3}{8}$
3	5 $\frac{1}{4}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{5}{8}$	12	4 $\frac{1}{16}$	4	2	13	5 $\frac{3}{4}$ - $\frac{1}{16}$
3	5 $\frac{3}{8}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{3}{4}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$	4	2 $\frac{1}{8}$	13	6 $\frac{1}{8}$ - $\frac{1}{16}$
3	5 $\frac{1}{2}$	11	3 $\frac{1}{16}$	3	9 $\frac{7}{8}$	12	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{1}{4}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$
3	5 $\frac{5}{8}$	11	3 $\frac{1}{2}$	3	10	12	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{3}{8}$	13	7
3	5 $\frac{3}{4}$	11	3 $\frac{7}{8}$	3	10 $\frac{1}{8}$	12	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	2 $\frac{1}{2}$	13	7 $\frac{3}{8}$
3	5 $\frac{7}{8}$	11	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	10 $\frac{1}{4}$	12	6	4	2 $\frac{5}{8}$	13	7 $\frac{3}{4}$
3	6	11	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	10 $\frac{3}{8}$	12	6 $\frac{3}{8}$	4	2 $\frac{3}{4}$	13	8 $\frac{1}{8}$
3	6 $\frac{1}{8}$	11	5 $\frac{1}{16}$	3	10 $\frac{1}{2}$	12	6 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{7}{8}$	13	8 $\frac{1}{2}$
3	6 $\frac{1}{4}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$	3	10 $\frac{5}{8}$	12	7 $\frac{1}{8}$ - $\frac{1}{16}$	4	3	13	8 $\frac{7}{8}$
3	6 $\frac{3}{8}$	11	5 $\frac{3}{4}$ - $\frac{1}{16}$	3	10 $\frac{3}{4}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$	4	3 $\frac{1}{8}$	13	9 $\frac{1}{4}$ - $\frac{1}{16}$
3	6 $\frac{1}{2}$	11	6 $\frac{1}{8}$ - $\frac{1}{16}$	3	10 $\frac{7}{8}$	12	8	4	3 $\frac{1}{4}$	13	9 $\frac{5}{8}$ - $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	$3\frac{3}{8}$	13	$10-\frac{1}{16}$	4	$7\frac{3}{4}$	14	$11\frac{7}{8}$	5	$0\frac{1}{8}$	16	$1\frac{1}{2}-\frac{1}{16}$
4	$3\frac{1}{2}$	13	$10\frac{1}{2}$	4	$7\frac{7}{8}$	15	$0\frac{1}{4}$	5	$0\frac{1}{4}$	16	2
4	$3\frac{5}{8}$	13	$10\frac{7}{8}$	4	8	15	$0\frac{5}{8}$	5	$0\frac{3}{8}$	16	$2\frac{3}{8}$
4	$3\frac{3}{4}$	13	$11\frac{1}{4}-\frac{1}{16}$	4	$8\frac{1}{8}$	15	1	5	$0\frac{1}{2}$	16	$2\frac{3}{4}-\frac{1}{16}$
4	$3\frac{7}{8}$	13	$11\frac{5}{8}-\frac{1}{16}$	4	$8\frac{1}{4}$	15	$1\frac{3}{8}$	5	$0\frac{5}{8}$	16	$3\frac{1}{8}-\frac{1}{16}$
4	4	14	$0\frac{1}{16}$	4	$8\frac{3}{8}$	15	$1\frac{3}{4}-\frac{1}{16}$	5	$0\frac{3}{4}$	16	$3\frac{1}{2}-\frac{1}{16}$
4	$4\frac{1}{8}$	14	$0\frac{1}{2}$	4	$8\frac{1}{2}$	15	$2\frac{3}{8}-\frac{1}{16}$	5	$0\frac{7}{8}$	16	4
4	$4\frac{1}{4}$	14	$0\frac{7}{8}$	4	$8\frac{5}{8}$	15	$2\frac{1}{2}-\frac{1}{16}$	5	1	16	$4\frac{3}{8}$
4	$4\frac{3}{8}$	14	$1\frac{1}{4}$	4	$8\frac{3}{4}$	15	3	5	$1\frac{1}{8}$	16	$4\frac{3}{4}$
4	$4\frac{1}{2}$	14	$1\frac{5}{8}$	4	$8\frac{7}{8}$	15	$3\frac{3}{8}$	5	$1\frac{1}{4}$	16	$5\frac{1}{8}$
4	$4\frac{5}{8}$	14	2	4	9	15	$3\frac{3}{4}-\frac{1}{16}$	5	$1\frac{3}{8}$	16	$5\frac{1}{2}$
4	$4\frac{3}{4}$	14	$2\frac{3}{8}$	4	$9\frac{1}{8}$	15	$4\frac{1}{8}-\frac{1}{16}$	5	$1\frac{1}{2}$	16	$5\frac{7}{8}$
4	$4\frac{7}{8}$	14	$2\frac{3}{4}-\frac{1}{16}$	4	$9\frac{1}{4}$	15	$4\frac{1}{2}-\frac{1}{16}$	5	$1\frac{5}{8}$	16	$6\frac{1}{4}-\frac{1}{16}$
4	5	14	$3\frac{1}{8}-\frac{1}{16}$	4	$9\frac{3}{8}$	15	5	5	$1\frac{3}{4}$	16	$6\frac{5}{8}-\frac{1}{16}$
4	$5\frac{1}{8}$	14	$3\frac{1}{2}-\frac{1}{16}$	4	$9\frac{1}{2}$	15	$5\frac{3}{8}$	5	$1\frac{7}{8}$	16	$7\frac{1}{8}$
4	$5\frac{1}{4}$	14	4	4	$9\frac{5}{8}$	15	$5\frac{3}{4}$	5	2	16	$7\frac{1}{2}$
4	$5\frac{3}{8}$	14	$4\frac{3}{8}$	4	$9\frac{3}{4}$	15	$6\frac{1}{8}$	5	$2\frac{1}{8}$	16	$7\frac{7}{8}$
4	$5\frac{1}{2}$	14	$4\frac{3}{4}-\frac{1}{16}$	4	$9\frac{7}{8}$	15	$6\frac{1}{2}$	5	$2\frac{1}{4}$	16	$8\frac{1}{4}-\frac{1}{16}$
4	$5\frac{5}{8}$	14	$5\frac{1}{8}-\frac{1}{16}$	4	10	15	$6\frac{7}{8}$	5	$2\frac{3}{8}$	16	$8\frac{5}{8}-\frac{1}{16}$
4	$5\frac{3}{4}$	14	$5\frac{1}{2}-\frac{1}{16}$	4	$10\frac{1}{8}$	15	$7\frac{1}{4}-\frac{1}{16}$	5	$2\frac{1}{2}$	16	$9\frac{1}{8}$
4	$5\frac{7}{8}$	14	6	4	$10\frac{1}{4}$	15	$7\frac{5}{8}-\frac{1}{16}$	5	$2\frac{5}{8}$	16	$9\frac{1}{2}$
4	6	14	$6\frac{3}{8}$	4	$10\frac{3}{8}$	15	$8\frac{1}{8}$	5	$2\frac{3}{4}$	16	$9\frac{7}{8}$
4	$6\frac{1}{8}$	14	$6\frac{3}{4}$	4	$10\frac{1}{2}$	15	$8\frac{1}{2}$	5	$2\frac{7}{8}$	16	$10\frac{1}{4}$
4	$6\frac{1}{4}$	14	$7\frac{1}{8}$	4	$10\frac{5}{8}$	15	$8\frac{7}{8}$	5	3	16	$10\frac{5}{8}$
4	$6\frac{3}{8}$	14	$7\frac{1}{2}$	4	$10\frac{3}{4}$	15	$9\frac{1}{4}-\frac{1}{16}$	5	$3\frac{1}{8}$	16	11
4	$6\frac{1}{2}$	14	$7\frac{7}{8}$	4	$10\frac{7}{8}$	15	$9\frac{5}{8}-\frac{1}{16}$	5	$3\frac{1}{4}$	16	$11\frac{3}{8}$
4	$6\frac{5}{8}$	14	$8\frac{1}{4}-\frac{1}{16}$	4	11	15	$10\frac{1}{16}$	5	$3\frac{3}{8}$	16	$11\frac{3}{4}-\frac{1}{16}$
4	$6\frac{3}{4}$	14	$8\frac{5}{8}-\frac{1}{16}$	4	$11\frac{1}{8}$	15	$10\frac{1}{2}$	5	$3\frac{1}{2}$	17	$0\frac{1}{8}-\frac{1}{16}$
4	$6\frac{7}{8}$	14	$9\frac{1}{8}$	4	$11\frac{1}{4}$	15	$10\frac{7}{8}$	5	$3\frac{5}{8}$	17	$0\frac{1}{2}-\frac{1}{16}$
4	7	14	$9\frac{1}{2}$	4	$11\frac{3}{8}$	15	$11\frac{1}{4}$	5	$3\frac{3}{4}$	17	1
4	$7\frac{1}{8}$	14	$9\frac{7}{8}$	4	$11\frac{1}{2}$	15	$11\frac{5}{8}$	5	$3\frac{7}{8}$	17	$1\frac{3}{8}$
4	$7\frac{1}{4}$	14	$10\frac{1}{4}$	4	$11\frac{5}{8}$	16	0	5	4	17	$1\frac{3}{4}-\frac{1}{16}$
4	$7\frac{3}{8}$	14	$10\frac{5}{8}-\frac{1}{16}$	4	$11\frac{3}{4}$	16	$0\frac{3}{8}$	5	$4\frac{1}{8}$	17	$2\frac{1}{8}-\frac{1}{16}$
4	$7\frac{1}{2}$	14	$11\frac{1}{8}$	4	$11\frac{7}{8}$	16	$0\frac{3}{4}-\frac{1}{16}$	5	$4\frac{1}{4}$	17	$2\frac{1}{2}-\frac{1}{16}$
4	$7\frac{5}{8}$	14	$11\frac{1}{2}$	5	0	16	$1\frac{1}{8}-\frac{1}{16}$	5	$4\frac{3}{8}$	17	3

ANGLE-IRON RINGS (FLANGE OUTSIDE).

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	4 $\frac{1}{2}$	17	3 $\frac{3}{8}$	5	8 $\frac{7}{8}$	18	5 $\frac{1}{8}$	6	1 $\frac{1}{4}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$
5	4 $\frac{5}{8}$	17	3 $\frac{3}{4}$	5	9	18	5 $\frac{1}{2}$	6	1 $\frac{3}{8}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$
5	4 $\frac{3}{4}$	17	4 $\frac{1}{8}$	5	9 $\frac{1}{8}$	18	5 $\frac{7}{8}$	6	1 $\frac{1}{2}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$
5	4 $\frac{7}{8}$	17	4 $\frac{1}{2}$	5	9 $\frac{1}{4}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$	6	1 $\frac{5}{8}$	19	8
5	5	17	4 $\frac{7}{8}$	5	9 $\frac{3}{8}$	18	6 $\frac{5}{8}$ - $\frac{1}{16}$	6	1 $\frac{3}{4}$	19	8 $\frac{3}{8}$
5	5 $\frac{1}{8}$	17	5 $\frac{1}{4}$	5	9 $\frac{1}{2}$	18	7 $\frac{1}{16}$	6	1 $\frac{7}{8}$	19	8 $\frac{3}{4}$ - $\frac{1}{16}$
5	5 $\frac{1}{4}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$	5	9 $\frac{5}{8}$	18	7 $\frac{3}{8}$ - $\frac{1}{16}$	6	2	19	9 $\frac{1}{8}$ - $\frac{1}{16}$
5	5 $\frac{3}{8}$	17	6 $\frac{1}{8}$	5	9 $\frac{3}{4}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	2 $\frac{1}{8}$	19	9 $\frac{1}{2}$ - $\frac{1}{16}$
5	5 $\frac{1}{2}$	17	6 $\frac{1}{2}$	5	9 $\frac{7}{8}$	18	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	2 $\frac{1}{4}$	19	10
5	5 $\frac{5}{8}$	17	6 $\frac{7}{8}$	5	10	18	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	2 $\frac{3}{8}$	19	10 $\frac{3}{8}$
5	5 $\frac{3}{4}$	17	7 $\frac{1}{4}$	5	10 $\frac{1}{8}$	18	9	6	2 $\frac{1}{2}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$
5	5 $\frac{7}{8}$	17	7 $\frac{5}{8}$ - $\frac{1}{16}$	5	10 $\frac{1}{4}$	18	9 $\frac{3}{8}$	6	2 $\frac{5}{8}$	19	11 $\frac{1}{8}$ - $\frac{1}{16}$
5	6	17	8 $\frac{1}{8}$	5	10 $\frac{3}{8}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$	6	2 $\frac{3}{4}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$
5	6 $\frac{1}{8}$	17	8 $\frac{1}{2}$	5	10 $\frac{1}{2}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$	6	2 $\frac{7}{8}$	19	11 $\frac{7}{8}$ - $\frac{1}{16}$
5	6 $\frac{1}{4}$	17	8 $\frac{7}{8}$	5	10 $\frac{5}{8}$	18	10 $\frac{1}{2}$ - $\frac{1}{16}$	6	3	20	0 $\frac{1}{4}$ - $\frac{1}{16}$
5	6 $\frac{3}{8}$	17	9 $\frac{1}{4}$	5	10 $\frac{3}{4}$	18	11	6	3 $\frac{1}{8}$	20	0 $\frac{5}{8}$ - $\frac{1}{16}$
5	6 $\frac{1}{2}$	17	9 $\frac{5}{8}$	5	10 $\frac{7}{8}$	18	11 $\frac{3}{8}$	6	3 $\frac{1}{4}$	20	1 $\frac{1}{8}$
5	6 $\frac{5}{8}$	17	10	5	11	18	11 $\frac{3}{4}$ - $\frac{1}{16}$	6	3 $\frac{3}{8}$	20	1 $\frac{1}{2}$
5	6 $\frac{3}{4}$	17	10 $\frac{3}{8}$	5	11 $\frac{1}{8}$	19	0 $\frac{1}{8}$ - $\frac{1}{16}$	6	3 $\frac{1}{2}$	20	1 $\frac{7}{8}$
5	6 $\frac{7}{8}$	17	10 $\frac{3}{4}$ - $\frac{1}{16}$	5	11 $\frac{1}{4}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$	6	3 $\frac{5}{8}$	20	2 $\frac{1}{4}$ - $\frac{1}{16}$
5	7	17	11 $\frac{1}{8}$ - $\frac{1}{16}$	5	11 $\frac{3}{8}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$	6	3 $\frac{3}{4}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$
5	7 $\frac{1}{8}$	17	11 $\frac{1}{2}$ - $\frac{1}{16}$	5	11 $\frac{1}{2}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	3 $\frac{7}{8}$	20	3 $\frac{1}{8}$
5	7 $\frac{1}{4}$	18	0	5	11 $\frac{5}{8}$	19	1 $\frac{5}{8}$ - $\frac{1}{16}$	6	4	20	3 $\frac{1}{2}$
5	7 $\frac{3}{8}$	18	0 $\frac{3}{8}$	5	11 $\frac{3}{4}$	19	2 $\frac{1}{8}$	6	4 $\frac{1}{8}$	20	3 $\frac{7}{8}$
5	7 $\frac{1}{2}$	18	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	11 $\frac{7}{8}$	19	2 $\frac{1}{2}$	6	4 $\frac{1}{4}$	20	4 $\frac{1}{4}$ - $\frac{1}{16}$
5	7 $\frac{5}{8}$	18	1 $\frac{1}{8}$ - $\frac{1}{16}$	6	0	19	2 $\frac{7}{8}$	6	4 $\frac{3}{8}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$
5	7 $\frac{3}{4}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$	6	0 $\frac{1}{8}$	19	3 $\frac{1}{4}$ - $\frac{1}{16}$	6	4 $\frac{1}{2}$	20	5 $\frac{1}{16}$
5	7 $\frac{7}{8}$	18	1 $\frac{7}{8}$ - $\frac{1}{16}$	6	0 $\frac{1}{4}$	19	3 $\frac{5}{8}$ - $\frac{1}{16}$	6	4 $\frac{5}{8}$	20	5 $\frac{3}{8}$ - $\frac{1}{16}$
5	8	18	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	0 $\frac{3}{8}$	19	4 $\frac{1}{8}$	6	4 $\frac{3}{4}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$
5	8 $\frac{1}{8}$	18	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	0 $\frac{1}{2}$	19	4 $\frac{1}{2}$	6	4 $\frac{7}{8}$	20	6 $\frac{1}{8}$ - $\frac{1}{16}$
5	8 $\frac{1}{4}$	18	3 $\frac{1}{8}$	6	0 $\frac{5}{8}$	19	4 $\frac{7}{8}$	6	5	20	6 $\frac{1}{2}$ - $\frac{1}{16}$
5	8 $\frac{3}{8}$	18	3 $\frac{1}{2}$	6	0 $\frac{3}{4}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	5 $\frac{1}{8}$	20	7
5	8 $\frac{1}{2}$	18	3 $\frac{7}{8}$	6	0 $\frac{7}{8}$	19	5 $\frac{5}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{4}$	20	7 $\frac{3}{8}$
5	8 $\frac{5}{8}$	18	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	1	19	6 $\frac{1}{16}$	6	5 $\frac{3}{8}$	20	7 $\frac{3}{4}$ - $\frac{1}{16}$
5	8 $\frac{3}{4}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	1 $\frac{1}{8}$	19	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{2}$	20	8 $\frac{1}{8}$ - $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$5\frac{5}{8}$	20	$8\frac{1}{2}-\frac{1}{16}$	6	10	21	$10\frac{1}{4}-\frac{1}{16}$	7	$2\frac{3}{8}$	23	$0\frac{1}{8}$
6	$5\frac{3}{4}$	20	9	6	$10\frac{1}{8}$	21	$10\frac{5}{8}-\frac{1}{16}$	7	$2\frac{1}{2}$	23	$0\frac{1}{2}$
6	$5\frac{7}{8}$	20	$9\frac{3}{8}$	6	$10\frac{1}{4}$	21	$11\frac{1}{8}$	7	$2\frac{5}{8}$	23	$0\frac{7}{8}$
6	6	20	$9\frac{3}{4}$	6	$10\frac{3}{8}$	21	$11\frac{1}{2}$	7	$2\frac{3}{4}$	23	$1\frac{1}{4}$
6	$6\frac{1}{8}$	20	$10\frac{1}{8}$	6	$10\frac{1}{2}$	21	$11\frac{7}{8}$	7	$2\frac{7}{8}$	23	$1\frac{5}{8}$
6	$6\frac{1}{4}$	20	$10\frac{1}{2}$	6	$10\frac{5}{8}$	22	$0\frac{1}{4}-\frac{1}{16}$	7	3	23	2
6	$6\frac{3}{8}$	20	$10\frac{7}{8}$	6	$10\frac{3}{4}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	$3\frac{1}{8}$	23	$2\frac{3}{8}$
6	$6\frac{1}{2}$	20	$11\frac{1}{4}-\frac{1}{16}$	6	$10\frac{7}{8}$	22	$1\frac{1}{8}$	7	$3\frac{1}{4}$	23	$2\frac{3}{4}-\frac{1}{16}$
6	$6\frac{5}{8}$	20	$11\frac{5}{8}-\frac{1}{16}$	6	11	22	$1\frac{1}{2}$	7	$3\frac{3}{8}$	23	$3\frac{1}{8}-\frac{1}{16}$
6	$6\frac{3}{4}$	21	$0\frac{1}{8}$	6	$11\frac{1}{8}$	22	$1\frac{7}{8}$	7	$3\frac{1}{2}$	23	$3\frac{1}{2}-\frac{1}{16}$
6	$6\frac{7}{8}$	21	$0\frac{1}{2}$	6	$11\frac{1}{4}$	22	$2\frac{1}{4}$	7	$3\frac{5}{8}$	23	4
6	7	21	$0\frac{7}{8}$	6	$11\frac{3}{8}$	22	$2\frac{5}{8}$	7	$3\frac{3}{4}$	23	$4\frac{3}{8}$
6	$7\frac{1}{8}$	21	$1\frac{1}{4}-\frac{1}{16}$	6	$11\frac{1}{2}$	22	3	7	$3\frac{7}{8}$	23	$4\frac{3}{4}-\frac{1}{16}$
6	$7\frac{1}{4}$	21	$1\frac{5}{8}-\frac{1}{16}$	6	$11\frac{5}{8}$	22	$3\frac{3}{8}$	7	4	23	$5\frac{1}{8}-\frac{1}{16}$
6	$7\frac{3}{8}$	21	$2\frac{1}{8}$	6	$11\frac{3}{4}$	22	$3\frac{3}{4}-\frac{1}{16}$	7	$4\frac{1}{8}$	23	$5\frac{1}{2}-\frac{1}{16}$
6	$7\frac{1}{2}$	21	$2\frac{1}{2}$	6	$11\frac{7}{8}$	22	$4\frac{1}{8}-\frac{1}{16}$	7	$4\frac{1}{4}$	23	6
6	$7\frac{5}{8}$	21	$2\frac{7}{8}$	7	0	22	$4\frac{1}{2}-\frac{1}{16}$	7	$4\frac{3}{8}$	23	$6\frac{3}{8}$
6	$7\frac{3}{4}$	21	$3\frac{1}{4}-\frac{1}{16}$	7	$0\frac{1}{8}$	22	5	7	$4\frac{1}{2}$	23	$6\frac{3}{4}$
6	$7\frac{7}{8}$	21	$3\frac{5}{8}$	7	$0\frac{1}{4}$	22	$5\frac{3}{8}$	7	$4\frac{5}{8}$	23	$7\frac{1}{8}$
6	8	21	4	7	$0\frac{3}{8}$	22	$5\frac{3}{4}-\frac{1}{16}$	7	$4\frac{3}{4}$	23	$7\frac{1}{2}$
6	$8\frac{1}{8}$	21	$4\frac{3}{8}$	7	$0\frac{1}{2}$	22	$6\frac{1}{8}-\frac{1}{16}$	7	$4\frac{7}{8}$	23	$7\frac{7}{8}$
6	$8\frac{1}{4}$	21	$4\frac{3}{4}-\frac{1}{16}$	7	$0\frac{5}{8}$	22	$6\frac{1}{2}-\frac{1}{16}$	7	5	23	$8\frac{1}{4}-\frac{1}{16}$
6	$8\frac{3}{8}$	21	$5\frac{1}{8}-\frac{1}{16}$	7	$0\frac{3}{4}$	22	7	7	$5\frac{1}{8}$	23	$8\frac{5}{8}-\frac{1}{16}$
6	$8\frac{1}{2}$	21	$5\frac{1}{2}-\frac{1}{16}$	7	$0\frac{7}{8}$	22	$7\frac{3}{8}$	7	$5\frac{1}{4}$	23	$9\frac{1}{16}$
6	$8\frac{5}{8}$	21	6	7	1	22	$7\frac{3}{4}$	7	$5\frac{3}{8}$	23	$9\frac{1}{2}$
6	$8\frac{3}{4}$	21	$6\frac{3}{8}$	7	$1\frac{1}{8}$	22	$8\frac{1}{8}$	7	$5\frac{1}{2}$	23	$9\frac{7}{8}$
6	$8\frac{7}{8}$	21	$6\frac{3}{4}-\frac{1}{16}$	7	$1\frac{1}{4}$	22	$8\frac{1}{2}$	7	$5\frac{5}{8}$	23	$10\frac{1}{4}-\frac{1}{16}$
6	9	21	$7\frac{1}{8}-\frac{1}{16}$	7	$1\frac{3}{8}$	22	$8\frac{7}{8}$	7	$5\frac{3}{4}$	23	$10\frac{5}{8}-\frac{1}{16}$
6	$9\frac{1}{8}$	21	$7\frac{1}{2}-\frac{1}{16}$	7	$1\frac{1}{2}$	22	$9\frac{1}{4}-\frac{1}{16}$	7	$5\frac{7}{8}$	23	$11\frac{1}{16}$
6	$9\frac{1}{4}$	21	8	7	$1\frac{5}{8}$	22	$9\frac{5}{8}-\frac{1}{16}$	7	6	23	$11\frac{3}{8}-\frac{1}{16}$
6	$9\frac{3}{8}$	21	$8\frac{3}{8}$	7	$1\frac{3}{4}$	22	$10\frac{1}{8}$	7	$6\frac{1}{8}$	23	$11\frac{3}{4}-\frac{1}{16}$
6	$9\frac{1}{2}$	21	$8\frac{3}{4}$	7	$1\frac{7}{8}$	22	$10\frac{1}{2}$	7	$6\frac{1}{4}$	24	$0\frac{1}{8}-\frac{1}{16}$
6	$9\frac{5}{8}$	21	$9\frac{1}{8}$	7	2	22	$10\frac{7}{8}$	7	$6\frac{3}{8}$	24	$0\frac{1}{2}-\frac{1}{16}$
6	$9\frac{3}{4}$	21	$9\frac{1}{2}$	7	$2\frac{1}{8}$	22	$11\frac{1}{4}-\frac{1}{16}$	7	$6\frac{1}{2}$	24	1
6	$9\frac{7}{8}$	21	$9\frac{7}{8}$	7	$2\frac{1}{4}$	22	$11\frac{5}{8}-\frac{1}{16}$	7	$6\frac{5}{8}$	24	$1\frac{3}{8}$



ANGLE-IRON RINGS (FLANGE OUTSIDE).

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	$6\frac{3}{4}$	24	$13\frac{3}{4}-\frac{1}{16}$	7	$11\frac{1}{8}$	25	$3\frac{1}{2}-\frac{1}{16}$	8	$3\frac{1}{2}$	26	$5\frac{1}{4}-\frac{1}{16}$
	$6\frac{7}{8}$	24	$2\frac{1}{8}-\frac{1}{16}$	7	$11\frac{1}{4}$	25	$3\frac{7}{8}-\frac{1}{16}$	8	$3\frac{5}{8}$	26	$5\frac{3}{8}-\frac{1}{16}$
	7	24	$2\frac{1}{2}-\frac{1}{16}$	7	$11\frac{3}{8}$	25	$4\frac{1}{4}-\frac{1}{16}$	8	$3\frac{3}{4}$	26	$6\frac{1}{16}$
	$7\frac{1}{8}$	24	3	7	$11\frac{1}{2}$	25	$4\frac{5}{8}-\frac{1}{16}$	8	$3\frac{7}{8}$	26	$6\frac{3}{8}-\frac{1}{16}$
	$7\frac{1}{4}$	24	$3\frac{3}{8}$	7	$11\frac{5}{8}$	25	$5\frac{1}{8}$	8	4	26	$6\frac{3}{4}-\frac{1}{16}$
	$7\frac{3}{8}$	24	$3\frac{3}{4}-\frac{1}{16}$	7	$11\frac{3}{4}$	25	$5\frac{1}{2}$	8	$4\frac{1}{8}$	26	$7\frac{1}{4}$
	$7\frac{1}{2}$	24	$4\frac{1}{8}-\frac{1}{16}$	7	$11\frac{7}{8}$	25	$5\frac{7}{8}$	8	$4\frac{1}{4}$	26	$7\frac{5}{8}$
	$7\frac{5}{8}$	24	$4\frac{1}{2}-\frac{1}{16}$	8	0	25	$6\frac{1}{4}-\frac{1}{16}$	8	$4\frac{3}{8}$	26	8
	$7\frac{3}{4}$	24	5	8	$0\frac{1}{8}$	25	$6\frac{5}{8}-\frac{1}{16}$	8	$4\frac{1}{2}$	26	$8\frac{3}{8}-\frac{1}{16}$
	$7\frac{7}{8}$	24	$5\frac{3}{8}$	8	$0\frac{1}{4}$	25	$7\frac{1}{8}$	8	$4\frac{5}{8}$	26	$8\frac{3}{4}-\frac{1}{16}$
	8	24	$5\frac{3}{4}$	8	$0\frac{3}{8}$	25	$7\frac{1}{2}$	8	$4\frac{3}{4}$	26	$9\frac{1}{8}-\frac{1}{16}$
	$8\frac{1}{8}$	24	$6\frac{1}{8}$	8	$0\frac{1}{2}$	25	$7\frac{7}{8}$	8	$4\frac{7}{8}$	26	$9\frac{1}{2}-\frac{1}{16}$
	$8\frac{1}{4}$	24	$6\frac{1}{2}$	8	$0\frac{5}{8}$	25	$8\frac{1}{4}-\frac{1}{16}$	8	5	26	10
	$8\frac{3}{8}$	24	$6\frac{7}{8}$	8	$0\frac{3}{4}$	25	$8\frac{5}{8}-\frac{1}{16}$	8	$5\frac{1}{8}$	26	$10\frac{3}{8}$
	$8\frac{1}{2}$	24	$7\frac{1}{4}-\frac{1}{16}$	8	$0\frac{7}{8}$	25	$9\frac{1}{16}$	8	$5\frac{1}{4}$	26	$10\frac{3}{4}$
	$8\frac{5}{8}$	24	$7\frac{5}{8}-\frac{1}{16}$	8	1	25	$9\frac{3}{8}-\frac{1}{16}$	8	$5\frac{3}{8}$	26	$11\frac{1}{8}-\frac{1}{16}$
	$8\frac{3}{4}$	24	$8\frac{1}{8}$	8	$1\frac{1}{8}$	25	$9\frac{3}{4}-\frac{1}{16}$	8	$5\frac{1}{2}$	26	$11\frac{1}{2}-\frac{1}{16}$
	$8\frac{7}{8}$	24	$8\frac{1}{2}$	8	$1\frac{1}{4}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	$5\frac{5}{8}$	26	$11\frac{7}{8}-\frac{1}{16}$
	9	24	$8\frac{7}{8}$	8	$1\frac{3}{8}$	25	$10\frac{1}{2}-\frac{1}{16}$	8	$5\frac{3}{4}$	27	$0\frac{1}{4}-\frac{1}{16}$
	$9\frac{1}{8}$	24	$9\frac{1}{4}-\frac{1}{16}$	8	$1\frac{1}{2}$	25	11	8	$5\frac{7}{8}$	27	$0\frac{3}{8}-\frac{1}{16}$
	$9\frac{1}{4}$	24	$9\frac{5}{8}-\frac{1}{16}$	8	$1\frac{5}{8}$	25	$11\frac{3}{8}$	8	6	27	$1\frac{1}{16}$
	$9\frac{3}{8}$	24	$10\frac{1}{16}$	8	$1\frac{3}{4}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$6\frac{1}{8}$	27	$1\frac{1}{2}$
	$9\frac{1}{2}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	$1\frac{7}{8}$	26	$0\frac{1}{8}-\frac{1}{16}$	8	$6\frac{1}{4}$	27	$1\frac{7}{8}-\frac{1}{16}$
	$9\frac{5}{8}$	24	$10\frac{3}{4}-\frac{1}{16}$	8	2	26	$0\frac{1}{2}-\frac{1}{16}$	8	$6\frac{3}{8}$	27	$2\frac{1}{4}-\frac{1}{16}$
	$9\frac{3}{4}$	24	$11\frac{1}{8}-\frac{1}{16}$	8	$2\frac{1}{8}$	26	1	8	$6\frac{1}{2}$	27	$2\frac{3}{8}-\frac{1}{16}$
	$9\frac{7}{8}$	24	$11\frac{1}{2}-\frac{1}{16}$	8	$2\frac{1}{4}$	26	$1\frac{3}{8}$	8	$6\frac{5}{8}$	27	$3\frac{1}{16}$
	10	25	0	8	$2\frac{3}{8}$	26	$1\frac{3}{4}-\frac{1}{16}$	8	$6\frac{3}{4}$	27	$3\frac{1}{2}$
	$10\frac{1}{8}$	25	$0\frac{3}{8}$	8	$2\frac{1}{2}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$6\frac{7}{8}$	27	$3\frac{7}{8}$
	$10\frac{1}{4}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	$2\frac{5}{8}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	7	27	$4\frac{1}{4}$
	$10\frac{3}{8}$	25	$1\frac{1}{8}-\frac{1}{16}$	8	$2\frac{3}{4}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$7\frac{1}{8}$	27	$4\frac{5}{8}-\frac{1}{16}$
	$10\frac{1}{2}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$2\frac{7}{8}$	26	$3\frac{1}{4}-\frac{1}{16}$	8	$7\frac{1}{4}$	27	$5\frac{1}{16}$
	$10\frac{5}{8}$	25	2	8	3	26	$3\frac{5}{8}-\frac{1}{16}$	8	$7\frac{3}{8}$	27	$5\frac{3}{8}-\frac{1}{16}$
	$10\frac{3}{4}$	25	$2\frac{3}{8}$	8	$3\frac{1}{8}$	26	$4\frac{1}{8}$	8	$7\frac{1}{2}$	27	$5\frac{3}{4}-\frac{1}{16}$
	$10\frac{7}{8}$	25	$2\frac{3}{4}-\frac{1}{16}$	8	$3\frac{1}{4}$	26	$4\frac{1}{2}$	8	$7\frac{5}{8}$	27	$6\frac{1}{4}$
	11	25	$3\frac{1}{8}-\frac{1}{16}$	8	$3\frac{3}{8}$	26	$4\frac{7}{8}$	8	$7\frac{3}{4}$	27	$6\frac{3}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$7\frac{7}{8}$	27	7	9	$0\frac{1}{4}$	28	$8\frac{3}{4}$	9	$4\frac{5}{8}$	29	$10\frac{1}{2}$
8	8	27	$7\frac{3}{8}-\frac{1}{16}$	9	$0\frac{3}{8}$	28	$9\frac{1}{8}$	9	$4\frac{3}{4}$	29	$10\frac{7}{8}$
8	$8\frac{1}{8}$	27	$7\frac{3}{4}-\frac{1}{16}$	9	$0\frac{1}{2}$	28	$9\frac{1}{2}$	9	$4\frac{7}{8}$	29	$11\frac{1}{4}-\frac{1}{16}$
8	$8\frac{1}{4}$	27	$8\frac{1}{8}-\frac{1}{16}$	9	$0\frac{5}{8}$	28	$9\frac{7}{8}-\frac{1}{16}$	9	5	29	$11\frac{5}{8}-\frac{1}{16}$
8	$8\frac{3}{8}$	27	$8\frac{1}{2}-\frac{1}{16}$	9	$0\frac{3}{4}$	28	$10\frac{1}{4}-\frac{1}{16}$	9	$5\frac{1}{8}$	30	$0\frac{1}{16}$
8	$8\frac{1}{2}$	27	9	9	$0\frac{7}{8}$	28	$10\frac{3}{4}$	9	$5\frac{1}{4}$	30	$0\frac{3}{8}-\frac{1}{16}$
8	$8\frac{5}{8}$	27	$9\frac{3}{8}$	9	1	28	$11\frac{1}{8}$	9	$5\frac{3}{8}$	30	$0\frac{7}{8}$
8	$8\frac{3}{4}$	27	$9\frac{3}{4}$	9	$1\frac{1}{8}$	28	$11\frac{1}{2}$	9	$5\frac{1}{2}$	30	$1\frac{1}{4}$
8	$8\frac{7}{8}$	27	$10\frac{1}{8}$	9	$1\frac{1}{4}$	28	$11\frac{3}{8}$	9	$5\frac{5}{8}$	30	$1\frac{5}{8}$
8	9	27	$10\frac{1}{2}$	9	$1\frac{3}{8}$	29	$0\frac{1}{4}-\frac{1}{16}$	9	$5\frac{3}{4}$	30	2
8	$9\frac{1}{8}$	27	$10\frac{7}{8}-\frac{1}{16}$	9	$1\frac{1}{2}$	29	$0\frac{3}{8}-\frac{1}{16}$	9	$5\frac{7}{8}$	30	$2\frac{3}{8}-\frac{1}{16}$
8	$9\frac{1}{4}$	27	$11\frac{1}{4}-\frac{1}{16}$	9	$1\frac{5}{8}$	29	$1\frac{1}{16}$	9	6	30	$2\frac{3}{4}-\frac{1}{16}$
8	$9\frac{3}{8}$	27	$11\frac{3}{4}$	9	$1\frac{3}{4}$	29	$1\frac{1}{2}$	9	$6\frac{1}{8}$	30	$3\frac{1}{4}$
8	$9\frac{1}{2}$	28	$0\frac{1}{8}$	9	$1\frac{7}{8}$	29	$1\frac{7}{8}$	9	$6\frac{1}{4}$	30	$3\frac{5}{8}$
8	$9\frac{5}{8}$	28	$0\frac{1}{2}$	9	2	29	$2\frac{1}{4}$	9	$6\frac{3}{8}$	30	4
8	$9\frac{3}{4}$	28	$0\frac{7}{8}$	9	$2\frac{1}{8}$	29	$2\frac{5}{8}$	9	$6\frac{1}{2}$	30	$4\frac{3}{8}$
8	$9\frac{7}{8}$	28	$1\frac{1}{4}-\frac{1}{16}$	9	$2\frac{1}{4}$	29	3	9	$6\frac{5}{8}$	30	$4\frac{3}{4}$
8	10	28	$1\frac{5}{8}-\frac{1}{16}$	9	$2\frac{3}{8}$	29	$3\frac{3}{8}-\frac{1}{16}$	9	$6\frac{3}{4}$	30	$5\frac{1}{8}-\frac{1}{16}$
8	$10\frac{1}{8}$	28	$2\frac{1}{16}$	9	$2\frac{1}{2}$	29	$3\frac{3}{4}-\frac{1}{16}$	9	$6\frac{7}{8}$	30	$5\frac{1}{2}-\frac{1}{16}$
8	$10\frac{1}{4}$	28	$2\frac{1}{2}$	9	$2\frac{5}{8}$	29	$4\frac{1}{4}$	9	7	30	6
8	$10\frac{3}{8}$	28	$2\frac{7}{8}$	9	$2\frac{3}{4}$	29	$4\frac{5}{8}$	9	$7\frac{1}{8}$	30	$6\frac{3}{8}$
8	$10\frac{1}{2}$	28	$3\frac{1}{4}$	9	$2\frac{7}{8}$	29	5	9	$7\frac{1}{4}$	30	$6\frac{3}{4}$
8	$10\frac{5}{8}$	28	$3\frac{5}{8}$	9	3	29	$5\frac{3}{8}$	9	$7\frac{3}{8}$	30	$7\frac{1}{8}$
8	$10\frac{3}{4}$	28	4	9	$3\frac{1}{8}$	29	$5\frac{3}{4}-\frac{1}{16}$	9	$7\frac{1}{2}$	30	$7\frac{1}{2}$
8	$10\frac{7}{8}$	28	$4\frac{3}{8}-\frac{1}{16}$	9	$3\frac{1}{4}$	29	$6\frac{1}{8}-\frac{1}{16}$	9	$7\frac{5}{8}$	30	$7\frac{7}{8}-\frac{1}{16}$
8	11	28	$4\frac{7}{8}$	9	$3\frac{3}{8}$	29	$6\frac{1}{2}-\frac{1}{16}$	9	$7\frac{3}{4}$	30	$8\frac{1}{4}-\frac{1}{16}$
8	$11\frac{1}{8}$	28	$5\frac{1}{4}$	9	$3\frac{1}{2}$	29	7	9	$7\frac{7}{8}$	30	$8\frac{3}{4}$
8	$11\frac{1}{4}$	28	$5\frac{5}{8}$	9	$3\frac{5}{8}$	29	$7\frac{3}{8}$	9	8	30	$9\frac{1}{8}$
8	$11\frac{3}{8}$	28	6	9	$3\frac{3}{4}$	29	$7\frac{3}{4}$	9	$8\frac{1}{8}$	30	$9\frac{1}{2}$
8	$11\frac{1}{2}$	28	$6\frac{3}{8}$	9	$3\frac{7}{8}$	29	$8\frac{1}{8}$	9	$8\frac{1}{4}$	30	$9\frac{7}{8}$
8	$11\frac{5}{8}$	28	$6\frac{3}{4}-\frac{1}{16}$	9	4	29	$8\frac{1}{2}-\frac{1}{16}$	9	$8\frac{3}{8}$	30	$10\frac{1}{4}$
8	$11\frac{3}{4}$	28	$7\frac{1}{8}-\frac{1}{16}$	9	$4\frac{1}{8}$	29	$8\frac{7}{8}-\frac{1}{16}$	9	$8\frac{1}{2}$	30	$10\frac{5}{8}-\frac{1}{16}$
8	$11\frac{7}{8}$	28	$7\frac{1}{2}-\frac{1}{16}$	9	$4\frac{1}{4}$	29	$9\frac{1}{4}-\frac{1}{16}$	9	$8\frac{5}{8}$	30	$11\frac{1}{16}$
9	0	28	8	9	$4\frac{3}{8}$	29	$9\frac{3}{4}$	9	$8\frac{3}{4}$	30	$11\frac{3}{8}-\frac{1}{16}$
9	$0\frac{1}{8}$	28	$8\frac{3}{8}$	9	$4\frac{1}{2}$	29	$10\frac{1}{8}$	9	$8\frac{7}{8}$	30	$11\frac{3}{4}-\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	31	0 $\frac{1}{4}$		10	1 $\frac{3}{8}$	32	2	10	5 $\frac{3}{4}$	33	3 $\frac{3}{4}$
9 $\frac{1}{8}$	31	0 $\frac{5}{8}$		10	1 $\frac{1}{2}$	32	2 $\frac{3}{8}$	10	5 $\frac{7}{8}$	33	4 $\frac{1}{8}$
9 $\frac{1}{4}$	31	1		10	1 $\frac{5}{8}$	32	2 $\frac{3}{4}$ - $\frac{1}{16}$	10	6	33	4 $\frac{1}{2}$
9 $\frac{3}{8}$	31	1 $\frac{3}{8}$ - $\frac{1}{16}$		10	1 $\frac{3}{4}$	32	3 $\frac{1}{8}$ - $\frac{1}{16}$	10	6 $\frac{1}{8}$	33	4 $\frac{7}{8}$
9 $\frac{1}{2}$	31	1 $\frac{3}{4}$ - $\frac{1}{16}$		10	1 $\frac{7}{8}$	32	3 $\frac{1}{2}$ - $\frac{1}{16}$	10	6 $\frac{1}{4}$	33	5 $\frac{1}{4}$ - $\frac{1}{16}$
9 $\frac{5}{8}$	31	2 $\frac{1}{4}$		10	2	32	3 $\frac{7}{8}$ - $\frac{1}{16}$	10	6 $\frac{3}{8}$	33	5 $\frac{5}{8}$ - $\frac{1}{16}$
9 $\frac{3}{4}$	31	2 $\frac{5}{8}$		10	2 $\frac{1}{8}$	32	4 $\frac{3}{8}$	10	6 $\frac{1}{2}$	33	6 $\frac{1}{16}$
9 $\frac{7}{8}$	31	3		10	2 $\frac{1}{4}$	32	4 $\frac{3}{4}$	10	6 $\frac{5}{8}$	33	6 $\frac{1}{2}$
10	31	3 $\frac{3}{8}$		10	2 $\frac{3}{8}$	32	5 $\frac{1}{8}$	10	6 $\frac{3}{4}$	33	6 $\frac{7}{8}$
10 $\frac{1}{8}$	31	3 $\frac{3}{4}$		10	2 $\frac{1}{2}$	32	5 $\frac{1}{2}$	10	6 $\frac{7}{8}$	33	7 $\frac{1}{4}$
10 $\frac{1}{4}$	31	4 $\frac{1}{8}$		10	2 $\frac{5}{8}$	32	5 $\frac{7}{8}$ - $\frac{1}{16}$	10	7	33	7 $\frac{5}{8}$ - $\frac{1}{16}$
10 $\frac{3}{8}$	31	4 $\frac{1}{2}$ - $\frac{1}{16}$		10	2 $\frac{3}{4}$	32	6 $\frac{1}{4}$ - $\frac{1}{16}$	10	7 $\frac{1}{8}$	33	8 $\frac{1}{16}$
10 $\frac{1}{2}$	31	5		10	2 $\frac{7}{8}$	32	6 $\frac{5}{8}$ - $\frac{1}{16}$	10	7 $\frac{1}{4}$	33	8 $\frac{3}{4}$ - $\frac{1}{16}$
10 $\frac{5}{8}$	31	5 $\frac{3}{8}$		10	3	32	7 $\frac{1}{8}$	10	7 $\frac{3}{8}$	33	8 $\frac{7}{8}$
10 $\frac{3}{4}$	31	5 $\frac{3}{4}$		10	3 $\frac{1}{8}$	32	7 $\frac{1}{2}$	10	7 $\frac{1}{2}$	33	9 $\frac{1}{4}$
10 $\frac{7}{8}$	31	6 $\frac{1}{8}$		10	3 $\frac{1}{4}$	32	7 $\frac{7}{8}$	10	7 $\frac{5}{8}$	33	9 $\frac{5}{8}$
11	31	6 $\frac{1}{2}$		10	3 $\frac{3}{8}$	32	8 $\frac{1}{4}$	10	7 $\frac{3}{4}$	33	10
11 $\frac{1}{8}$	31	6 $\frac{7}{8}$		10	3 $\frac{1}{2}$	32	8 $\frac{5}{8}$ - $\frac{1}{16}$	10	7 $\frac{7}{8}$	33	10 $\frac{3}{8}$ - $\frac{1}{16}$
11 $\frac{1}{4}$	31	7 $\frac{1}{4}$ - $\frac{1}{16}$		10	3 $\frac{5}{8}$	32	9 $\frac{1}{16}$	10	8	33	10 $\frac{3}{4}$ - $\frac{1}{16}$
11 $\frac{3}{8}$	31	7 $\frac{5}{8}$ - $\frac{1}{16}$		10	3 $\frac{3}{4}$	32	9 $\frac{3}{8}$ - $\frac{1}{16}$	10	8 $\frac{1}{8}$	33	11 $\frac{1}{8}$ - $\frac{1}{16}$
11 $\frac{1}{2}$	31	8 $\frac{1}{8}$		10	3 $\frac{7}{8}$	32	9 $\frac{3}{4}$ - $\frac{1}{16}$	10	8 $\frac{1}{4}$	33	11 $\frac{1}{2}$ - $\frac{1}{16}$
11 $\frac{5}{8}$	31	8 $\frac{1}{2}$		10	4	32	10 $\frac{1}{4}$	10	8 $\frac{3}{8}$	34	0
11 $\frac{3}{4}$	31	8 $\frac{7}{8}$		10	4 $\frac{1}{8}$	32	10 $\frac{5}{8}$	10	8 $\frac{1}{2}$	34	0 $\frac{3}{8}$
11 $\frac{7}{8}$	31	9 $\frac{1}{4}$		10	4 $\frac{1}{4}$	32	11	10	8 $\frac{5}{8}$	34	0 $\frac{3}{4}$
0	31	9 $\frac{5}{8}$ - $\frac{1}{16}$		10	4 $\frac{3}{8}$	32	11 $\frac{3}{8}$ - $\frac{1}{16}$	10	8 $\frac{3}{4}$	34	1 $\frac{1}{8}$ - $\frac{1}{16}$
0 $\frac{1}{8}$	31	10 $\frac{1}{16}$		10	4 $\frac{1}{2}$	32	11 $\frac{3}{4}$ - $\frac{1}{16}$	10	8 $\frac{7}{8}$	34	1 $\frac{1}{2}$ - $\frac{1}{16}$
0 $\frac{1}{4}$	31	10 $\frac{3}{8}$ - $\frac{1}{16}$		10	4 $\frac{5}{8}$	33	0 $\frac{1}{4}$	10	9	34	1 $\frac{7}{8}$ - $\frac{1}{16}$
0 $\frac{3}{8}$	31	10 $\frac{7}{8}$		10	4 $\frac{3}{4}$	33	0 $\frac{5}{8}$	10	9 $\frac{1}{8}$	34	2 $\frac{1}{4}$ - $\frac{1}{16}$
0 $\frac{1}{2}$	31	11 $\frac{1}{4}$		10	4 $\frac{7}{8}$	33	1	10	9 $\frac{1}{4}$	34	2 $\frac{3}{4}$
0 $\frac{5}{8}$	31	11 $\frac{5}{8}$		10	5	33	1 $\frac{3}{8}$	10	9 $\frac{3}{8}$	34	3 $\frac{1}{8}$
0 $\frac{3}{4}$	32	0		10	5 $\frac{1}{8}$	33	1 $\frac{3}{4}$	10	9 $\frac{1}{2}$	34	3 $\frac{1}{2}$
0 $\frac{7}{8}$	32	0 $\frac{3}{8}$ - $\frac{1}{16}$		10	5 $\frac{1}{4}$	33	2 $\frac{1}{8}$ - $\frac{1}{16}$	10	9 $\frac{5}{8}$	34	3 $\frac{7}{8}$ - $\frac{1}{16}$
1	32	0 $\frac{3}{4}$ - $\frac{1}{16}$		10	5 $\frac{3}{8}$	33	2 $\frac{1}{2}$ - $\frac{1}{16}$	10	9 $\frac{3}{4}$	34	4 $\frac{1}{4}$ - $\frac{1}{16}$
1 $\frac{1}{8}$	32	1 $\frac{1}{8}$ - $\frac{1}{16}$		10	5 $\frac{1}{2}$	33	3	10	9 $\frac{7}{8}$	34	4 $\frac{5}{8}$ - $\frac{1}{16}$
1 $\frac{1}{4}$	32	1 $\frac{5}{8}$		10	5 $\frac{5}{8}$	33	3 $\frac{3}{8}$	10	10	34	5 $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	10 $\frac{1}{8}$	34	5 $\frac{1}{2}$	10	10 $\frac{7}{8}$	34	7 $\frac{3}{4}$ - $\frac{1}{16}$	10	11 $\frac{1}{2}$	34	9 $\frac{3}{4}$ - $\frac{1}{16}$
10	10 $\frac{1}{4}$	34	5 $\frac{7}{8}$	10	11	34	8 $\frac{1}{4}$	10	11 $\frac{5}{8}$	34	10 $\frac{1}{8}$ - $\frac{1}{16}$
10	10 $\frac{3}{8}$	34	6 $\frac{1}{4}$	10	11 $\frac{1}{8}$	34	8 $\frac{5}{8}$	10	11 $\frac{3}{4}$	34	10 $\frac{1}{2}$ - $\frac{1}{16}$
10	10 $\frac{1}{2}$	34	6 $\frac{3}{8}$ - $\frac{1}{16}$	10	11 $\frac{1}{4}$	34	9	10	11 $\frac{7}{8}$	34	11
10	10 $\frac{5}{8}$	34	7 $\frac{1}{16}$	10	11 $\frac{3}{8}$	34	9 $\frac{3}{8}$	11	0	34	11 $\frac{3}{8}$
10	10 $\frac{3}{4}$	34	7 $\frac{3}{8}$ - $\frac{1}{16}$								

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	6 $\frac{3}{4}$ - $\frac{1}{16}$	1	2 $\frac{5}{8}$	4	3 $\frac{1}{16}$	1	5 $\frac{1}{4}$	4	11 $\frac{1}{4}$
1	0 $\frac{1}{8}$	3	7 $\frac{1}{8}$ - $\frac{1}{16}$	1	2 $\frac{3}{4}$	4	3 $\frac{3}{8}$ - $\frac{1}{16}$	1	5 $\frac{3}{8}$	4	11 $\frac{5}{8}$ - $\frac{1}{16}$
1	0 $\frac{1}{4}$	3	7 $\frac{1}{2}$ - $\frac{1}{16}$	1	2 $\frac{7}{8}$	4	3 $\frac{3}{4}$ - $\frac{1}{16}$	1	5 $\frac{1}{2}$	5	0 $\frac{1}{16}$
1	0 $\frac{3}{8}$	3	7 $\frac{7}{8}$ - $\frac{1}{16}$	1	3	4	4 $\frac{1}{8}$ - $\frac{1}{16}$	1	5 $\frac{5}{8}$	5	0 $\frac{3}{8}$ - $\frac{1}{16}$
1	0 $\frac{1}{2}$	3	8 $\frac{1}{4}$ - $\frac{1}{16}$	1	3 $\frac{1}{8}$	4	4 $\frac{1}{2}$ - $\frac{1}{16}$	1	5 $\frac{3}{4}$	5	0 $\frac{3}{4}$ - $\frac{1}{16}$
1	0 $\frac{5}{8}$	3	8 $\frac{3}{4}$	1	3 $\frac{1}{4}$	4	5	1	5 $\frac{7}{8}$	5	1 $\frac{1}{4}$
1	0 $\frac{3}{4}$	3	9 $\frac{1}{8}$	1	3 $\frac{3}{8}$	4	5 $\frac{3}{8}$	1	6	5	1 $\frac{5}{8}$
1	0 $\frac{7}{8}$	3	9 $\frac{1}{2}$ - $\frac{1}{16}$	1	3 $\frac{1}{2}$	4	5 $\frac{3}{4}$ - $\frac{1}{16}$	1	6 $\frac{1}{8}$	5	2
1	1	3	9 $\frac{7}{8}$ - $\frac{1}{16}$	1	3 $\frac{5}{8}$	4	6 $\frac{1}{8}$ - $\frac{1}{16}$	1	6 $\frac{1}{4}$	5	2 $\frac{3}{8}$ - $\frac{1}{16}$
1	1 $\frac{1}{8}$	3	10 $\frac{1}{4}$ - $\frac{1}{16}$	1	3 $\frac{3}{4}$	4	6 $\frac{1}{2}$ - $\frac{1}{16}$	1	6 $\frac{3}{8}$	5	2 $\frac{3}{4}$ - $\frac{1}{16}$
1	1 $\frac{1}{4}$	3	10 $\frac{5}{8}$ - $\frac{1}{16}$	1	3 $\frac{7}{8}$	4	6 $\frac{7}{8}$ - $\frac{1}{16}$	1	6 $\frac{1}{2}$	5	3 $\frac{1}{8}$ - $\frac{1}{16}$
1	1 $\frac{3}{8}$	3	11 $\frac{1}{16}$	1	4	4	7 $\frac{1}{4}$ - $\frac{1}{16}$	1	6 $\frac{5}{8}$	5	3 $\frac{1}{2}$ - $\frac{1}{16}$
1	1 $\frac{1}{2}$	3	11 $\frac{1}{2}$	1	4 $\frac{1}{8}$	4	7 $\frac{3}{4}$	1	6 $\frac{3}{4}$	5	4
1	1 $\frac{5}{8}$	3	11 $\frac{7}{8}$	1	4 $\frac{1}{4}$	4	8 $\frac{1}{8}$	1	6 $\frac{7}{8}$	5	4 $\frac{3}{8}$
1	1 $\frac{3}{4}$	4	0 $\frac{1}{4}$	1	4 $\frac{3}{8}$	4	8 $\frac{1}{2}$	1	7	5	4 $\frac{3}{4}$
1	1 $\frac{7}{8}$	4	0 $\frac{5}{8}$ - $\frac{1}{16}$	1	4 $\frac{1}{2}$	4	8 $\frac{5}{8}$ - $\frac{1}{16}$	1	7 $\frac{1}{8}$	5	5 $\frac{1}{8}$ - $\frac{1}{16}$
1	2	4	1 $\frac{1}{16}$	1	4 $\frac{5}{8}$	4	9 $\frac{1}{4}$ - $\frac{1}{16}$	1	7 $\frac{1}{4}$	5	5 $\frac{1}{2}$ - $\frac{1}{16}$
1	2 $\frac{1}{8}$	4	1 $\frac{3}{8}$ - $\frac{1}{16}$	1	4 $\frac{3}{4}$	4	9 $\frac{5}{8}$ - $\frac{1}{16}$	1	7 $\frac{3}{8}$	5	5 $\frac{7}{8}$ - $\frac{1}{16}$
1	2 $\frac{1}{4}$	4	1 $\frac{3}{4}$ - $\frac{1}{16}$	1	4 $\frac{7}{8}$	4	10 $\frac{1}{16}$	1	7 $\frac{1}{2}$	5	6 $\frac{1}{4}$ - $\frac{1}{16}$
1	2 $\frac{3}{8}$	4	2 $\frac{1}{4}$	1	5	4	10 $\frac{1}{2}$	1	7 $\frac{5}{8}$	5	6 $\frac{3}{4}$
1	2 $\frac{1}{2}$	4	2 $\frac{5}{8}$	1	5 $\frac{1}{8}$	4	10 $\frac{7}{8}$	1	7 $\frac{3}{4}$	5	7 $\frac{1}{8}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 73

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$7\frac{7}{8}$	5	$7\frac{1}{2}$	2	$0\frac{1}{4}$	6	$9\frac{1}{4}$	2	$4\frac{5}{8}$	7	11
1	8	5	$7\frac{7}{8}$	2	$0\frac{3}{8}$	6	$9\frac{5}{8}-\frac{1}{16}$	2	$4\frac{3}{4}$	7	$11\frac{3}{8}$
1	$8\frac{1}{8}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{2}$	6	$10\frac{1}{16}$	2	$4\frac{7}{8}$	7	$11\frac{3}{4}-\frac{1}{16}$
1	$8\frac{1}{4}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$0\frac{5}{8}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	5	8	$0\frac{9}{8}-\frac{1}{16}$
1	$8\frac{3}{8}$	5	$9\frac{1}{16}$	2	$0\frac{3}{4}$	6	$10\frac{3}{4}-\frac{1}{16}$	2	$5\frac{1}{8}$	8	$0\frac{1}{2}-\frac{1}{16}$
1	$8\frac{1}{2}$	5	$9\frac{1}{2}$	2	$0\frac{7}{8}$	6	$11\frac{1}{4}$	2	$5\frac{1}{4}$	8	1
1	$8\frac{5}{8}$	5	$9\frac{7}{8}$	2	1	6	$11\frac{5}{8}$	2	$5\frac{3}{8}$	8	$1\frac{3}{8}$
1	$8\frac{3}{4}$	5	$10\frac{1}{4}$	2	$1\frac{1}{8}$	7	0	2	$5\frac{1}{2}$	8	$1\frac{3}{4}-\frac{1}{16}$
1	$8\frac{7}{8}$	5	$10\frac{5}{8}$	2	$1\frac{1}{4}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$5\frac{5}{8}$	8	$2\frac{1}{8}-\frac{1}{16}$
1	9	5	$11\frac{1}{16}$	2	$1\frac{3}{8}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	$5\frac{3}{4}$	8	$2\frac{1}{2}-\frac{1}{16}$
1	$9\frac{1}{8}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$1\frac{1}{2}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	$5\frac{7}{8}$	8	3
1	$9\frac{1}{4}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	$1\frac{5}{8}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	6	8	$3\frac{3}{8}$
1	$9\frac{3}{8}$	6	$0\frac{1}{4}$	2	$1\frac{3}{4}$	7	2	2	$6\frac{1}{8}$	8	$3\frac{3}{4}$
1	$9\frac{1}{2}$	6	$0\frac{5}{8}$	2	$1\frac{7}{8}$	7	$2\frac{3}{8}$	2	$6\frac{1}{4}$	8	$4\frac{1}{8}$
1	$9\frac{5}{8}$	6	1	2	2	7	$2\frac{3}{4}$	2	$6\frac{3}{8}$	8	$4\frac{1}{2}$
1	$9\frac{3}{4}$	6	$1\frac{3}{8}$	2	$2\frac{1}{8}$	7	$3\frac{1}{8}$	2	$6\frac{1}{2}$	8	$4\frac{7}{8}$
1	$9\frac{7}{8}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	$2\frac{1}{4}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$6\frac{3}{8}$	8	$5\frac{1}{4}-\frac{1}{16}$
1	10	6	$2\frac{1}{8}-\frac{1}{16}$	2	$2\frac{3}{8}$	7	$3\frac{7}{8}-\frac{1}{16}$	2	$6\frac{3}{4}$	8	$5\frac{5}{8}-\frac{1}{16}$
1	$10\frac{1}{8}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$2\frac{1}{2}$	7	$4\frac{1}{4}-\frac{1}{16}$	2	$6\frac{7}{8}$	8	$6\frac{1}{16}$
1	$10\frac{1}{4}$	6	3	2	$2\frac{5}{8}$	7	$4\frac{3}{4}$	2	7	8	$6\frac{1}{2}$
1	$10\frac{3}{8}$	6	$3\frac{3}{8}$	2	$2\frac{3}{4}$	7	$5\frac{1}{8}$	2	$7\frac{1}{8}$	8	$6\frac{7}{8}$
1	$10\frac{1}{2}$	6	$3\frac{3}{4}$	2	$2\frac{7}{8}$	7	$5\frac{1}{2}$	2	$7\frac{1}{4}$	8	$7\frac{1}{4}-\frac{1}{16}$
1	$10\frac{5}{8}$	6	$4\frac{1}{8}$	2	3	7	$5\frac{7}{8}$	2	$7\frac{3}{8}$	8	$7\frac{5}{8}-\frac{1}{16}$
1	$10\frac{3}{4}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$3\frac{1}{8}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	$7\frac{1}{2}$	8	$8\frac{1}{16}$
1	$10\frac{7}{8}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$3\frac{1}{4}$	7	$6\frac{5}{8}-\frac{1}{16}$	2	$7\frac{5}{8}$	8	$8\frac{1}{2}$
1	11	6	$5\frac{1}{4}-\frac{1}{16}$	2	$3\frac{3}{8}$	7	$7\frac{1}{16}$	2	$7\frac{3}{4}$	8	$8\frac{7}{8}$
1	$11\frac{1}{8}$	6	$5\frac{3}{4}$	2	$3\frac{1}{2}$	7	$7\frac{3}{8}-\frac{1}{16}$	2	$7\frac{7}{8}$	8	$9\frac{1}{4}$
1	$11\frac{1}{4}$	6	$6\frac{1}{8}$	2	$3\frac{5}{8}$	7	$7\frac{7}{8}$	2	8	8	$9\frac{5}{8}$
1	$11\frac{3}{8}$	6	$6\frac{1}{2}$	2	$3\frac{3}{4}$	7	$8\frac{1}{4}$	2	$8\frac{1}{8}$	8	10
1	$11\frac{1}{2}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	$3\frac{7}{8}$	7	$8\frac{5}{8}$	2	$8\frac{1}{4}$	8	$10\frac{3}{8}$
1	$11\frac{5}{8}$	6	$7\frac{1}{4}-\frac{1}{16}$	2	4	7	$9\frac{1}{16}$	2	$8\frac{3}{8}$	8	$10\frac{3}{4}-\frac{1}{16}$
1	$11\frac{3}{4}$	6	$7\frac{3}{4}$	2	$4\frac{1}{8}$	7	$9\frac{3}{8}-\frac{1}{16}$	2	$8\frac{1}{2}$	8	$11\frac{1}{8}-\frac{1}{16}$
1	$11\frac{7}{8}$	6	$8\frac{1}{8}$	2	$4\frac{1}{4}$	7	$9\frac{3}{4}-\frac{1}{16}$	2	$8\frac{5}{8}$	8	$11\frac{5}{8}$
2	0	6	$8\frac{1}{2}$	2	$4\frac{3}{8}$	7	$10\frac{1}{4}$	2	$8\frac{3}{4}$	9	0
2	$0\frac{1}{8}$	6	$8\frac{7}{8}$	2	$4\frac{1}{2}$	7	$10\frac{5}{8}$	2	$8\frac{7}{8}$	9	$0\frac{3}{8}$

DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	9	9	$0\frac{3}{4}-\frac{1}{16}$	3	$1\frac{3}{8}$	10	$2\frac{1}{2}$	3	$5\frac{3}{4}$	11	$4\frac{1}{4}-\frac{1}{16}$
2	$9\frac{1}{8}$	9	$1\frac{1}{8}-\frac{1}{16}$	3	$1\frac{1}{2}$	10	$2\frac{7}{8}$	3	$5\frac{7}{8}$	11	$4\frac{5}{8}-\frac{1}{16}$
2	$9\frac{1}{4}$	9	$1\frac{5}{8}$	3	$1\frac{5}{8}$	10	$3\frac{1}{4}-\frac{1}{16}$	3	6	11	$5\frac{1}{16}$
2	$9\frac{3}{8}$	9	2	3	$1\frac{3}{4}$	10	$3\frac{5}{8}-\frac{1}{16}$	3	$6\frac{1}{8}$	11	$5\frac{3}{8}-\frac{1}{16}$
2	$9\frac{1}{2}$	9	$2\frac{3}{8}$	3	$1\frac{7}{8}$	10	$4\frac{1}{8}$	3	$6\frac{1}{4}$	11	$5\frac{3}{4}-\frac{1}{16}$
2	$9\frac{5}{8}$	9	$2\frac{3}{4}$	3	2	10	$4\frac{1}{2}$	3	$6\frac{3}{8}$	11	$6\frac{3}{8}-\frac{1}{16}$
2	$9\frac{3}{4}$	9	$3\frac{1}{8}$	3	$2\frac{1}{8}$	10	$4\frac{7}{8}$	3	$6\frac{1}{2}$	11	$6\frac{1}{2}-\frac{1}{16}$
2	$9\frac{7}{8}$	9	$3\frac{1}{2}$	3	$2\frac{1}{4}$	10	$5\frac{1}{4}-\frac{1}{16}$	3	$6\frac{5}{8}$	11	7
2	10	9	$3\frac{7}{8}$	3	$2\frac{3}{8}$	10	$5\frac{5}{8}-\frac{1}{16}$	3	$6\frac{3}{4}$	11	$7\frac{3}{8}$
2	$10\frac{1}{8}$	9	$4\frac{1}{4}-\frac{1}{16}$	3	$2\frac{1}{2}$	10	$6\frac{1}{16}$	3	$6\frac{7}{8}$	11	$7\frac{3}{4}-\frac{1}{16}$
2	$10\frac{1}{4}$	9	$4\frac{5}{8}-\frac{1}{16}$	3	$2\frac{5}{8}$	10	$6\frac{3}{8}-\frac{1}{16}$	3	7	11	$8\frac{3}{8}-\frac{1}{16}$
2	$10\frac{3}{8}$	9	$5\frac{1}{16}$	3	$2\frac{3}{4}$	10	$6\frac{3}{4}-\frac{1}{16}$	3	$7\frac{1}{8}$	11	$8\frac{3}{8}-\frac{1}{16}$
2	$10\frac{1}{2}$	9	$5\frac{1}{2}$	3	$2\frac{7}{8}$	10	$7\frac{1}{8}-\frac{1}{16}$	3	$7\frac{1}{4}$	11	9
2	$10\frac{3}{8}$	9	$5\frac{7}{8}$	3	3	10	$7\frac{3}{8}$	3	$7\frac{3}{8}$	11	$9\frac{3}{8}$
2	$10\frac{3}{4}$	9	$6\frac{1}{4}-\frac{1}{16}$	3	$3\frac{1}{8}$	10	8	3	$7\frac{1}{2}$	11	$9\frac{3}{4}-\frac{1}{16}$
2	$10\frac{7}{8}$	9	$6\frac{5}{8}-\frac{1}{16}$	3	$3\frac{1}{4}$	10	$8\frac{3}{8}$	3	$7\frac{5}{8}$	11	$10\frac{1}{8}-\frac{1}{16}$
2	11	9	$7\frac{1}{16}$	3	$3\frac{3}{8}$	10	$8\frac{3}{4}-\frac{1}{16}$	3	$7\frac{3}{4}$	11	$10\frac{1}{2}-\frac{1}{16}$
2	$11\frac{1}{8}$	9	$7\frac{3}{8}-\frac{1}{16}$	3	$3\frac{1}{2}$	10	$9\frac{1}{8}-\frac{1}{16}$	3	$7\frac{7}{8}$	11	$10\frac{7}{8}-\frac{1}{16}$
2	$11\frac{1}{4}$	9	$7\frac{3}{4}-\frac{1}{16}$	3	$3\frac{5}{8}$	10	$9\frac{5}{8}$	3	8	11	$11\frac{1}{4}-\frac{1}{16}$
2	$11\frac{3}{8}$	9	$8\frac{1}{8}-\frac{1}{16}$	3	$3\frac{3}{4}$	10	10	3	$8\frac{1}{8}$	11	$11\frac{5}{8}-\frac{1}{16}$
2	$11\frac{1}{2}$	9	$8\frac{1}{2}-\frac{1}{16}$	3	$3\frac{7}{8}$	10	$10\frac{3}{8}$	3	$8\frac{1}{4}$	12	$0\frac{1}{16}$
2	$11\frac{5}{8}$	9	9	3	4	10	$10\frac{3}{4}-\frac{1}{16}$	3	$8\frac{3}{8}$	12	$0\frac{1}{2}$
2	$11\frac{3}{4}$	9	$9\frac{3}{8}$	3	$4\frac{1}{8}$	10	$11\frac{1}{8}-\frac{1}{16}$	3	$8\frac{1}{2}$	12	$0\frac{7}{8}$
2	$11\frac{7}{8}$	9	$9\frac{3}{4}-\frac{1}{16}$	3	$4\frac{1}{4}$	10	$11\frac{1}{2}-\frac{1}{16}$	3	$8\frac{5}{8}$	12	$1\frac{1}{4}-\frac{1}{16}$
3	0	9	$10\frac{1}{8}-\frac{1}{16}$	3	$4\frac{3}{8}$	10	$11\frac{7}{8}-\frac{1}{16}$	3	$8\frac{3}{4}$	12	$1\frac{5}{8}-\frac{1}{16}$
3	$0\frac{1}{8}$	9	$10\frac{1}{2}-\frac{1}{16}$	3	$4\frac{1}{2}$	11	$0\frac{1}{4}-\frac{1}{16}$	3	$8\frac{7}{8}$	12	$2\frac{1}{16}$
3	$0\frac{1}{4}$	9	11	3	$4\frac{5}{8}$	11	$0\frac{5}{8}-\frac{1}{16}$	3	9	12	$2\frac{1}{2}$
3	$0\frac{3}{8}$	9	$11\frac{3}{8}$	3	$4\frac{3}{4}$	11	$1\frac{1}{16}$	3	$9\frac{1}{8}$	12	$2\frac{7}{8}$
3	$0\frac{1}{2}$	9	$11\frac{3}{4}-\frac{1}{16}$	3	$4\frac{7}{8}$	11	$1\frac{1}{2}$	3	$9\frac{1}{4}$	12	$3\frac{1}{4}-\frac{1}{16}$
3	$0\frac{5}{8}$	10	$0\frac{1}{8}-\frac{1}{16}$	3	5	11	$1\frac{7}{8}$	3	$9\frac{3}{8}$	12	$3\frac{5}{8}-\frac{1}{16}$
3	$0\frac{3}{4}$	10	$0\frac{1}{2}-\frac{1}{16}$	3	$5\frac{1}{8}$	11	$2\frac{1}{4}-\frac{1}{16}$	3	$9\frac{1}{2}$	12	$4\frac{1}{16}$
3	$0\frac{7}{8}$	10	1	3	$5\frac{1}{4}$	11	$2\frac{5}{8}-\frac{1}{16}$	3	$9\frac{5}{8}$	12	$4\frac{3}{8}-\frac{1}{16}$
3	-1	10	$1\frac{3}{8}$	3	$5\frac{3}{8}$	11	$3\frac{1}{16}$	3	$9\frac{3}{4}$	12	$4\frac{3}{4}-\frac{1}{16}$
3	$1\frac{1}{8}$	10	$1\frac{3}{4}$	3	$5\frac{1}{2}$	11	$3\frac{1}{2}$	3	$9\frac{7}{8}$	12	$5\frac{1}{8}-\frac{1}{16}$
3	$1\frac{1}{4}$	10	$2\frac{1}{8}$	3	$5\frac{5}{8}$	11	$3\frac{7}{8}$	3	10	12	$5\frac{1}{2}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE).

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	10 $\frac{1}{8}$	12	6	4	2 $\frac{1}{2}$	13	7 $\frac{3}{4}$	4	6 $\frac{7}{8}$	14	9 $\frac{1}{2}$
3	10 $\frac{1}{4}$	12	6 $\frac{3}{8}$	4	2 $\frac{5}{8}$	13	8 $\frac{1}{8}$	4	7	14	9 $\frac{7}{8}$
3	10 $\frac{3}{8}$	12	6 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{3}{4}$	13	8 $\frac{1}{2}$	4	7 $\frac{1}{8}$	14	10 $\frac{1}{4}$
3	10 $\frac{1}{2}$	12	7 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{7}{8}$	13	8 $\frac{7}{8}$	4	7 $\frac{1}{4}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$
3	10 $\frac{5}{8}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$	4	3	13	9 $\frac{1}{4}$ - $\frac{1}{16}$	4	7 $\frac{3}{8}$	14	11 $\frac{1}{8}$
3	10 $\frac{3}{4}$	12	8	4	3 $\frac{1}{8}$	13	9 $\frac{5}{8}$ - $\frac{1}{16}$	4	7 $\frac{1}{2}$	14	11 $\frac{1}{2}$
3	10 $\frac{7}{8}$	12	8 $\frac{3}{8}$	4	3 $\frac{1}{4}$	13	10 $\frac{1}{16}$	4	7 $\frac{5}{8}$	14	11 $\frac{7}{8}$
3	11	12	8 $\frac{3}{4}$ - $\frac{1}{16}$	4	3 $\frac{3}{8}$	13	10 $\frac{1}{2}$	4	7 $\frac{3}{4}$	15	0 $\frac{1}{4}$
3	11 $\frac{1}{8}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$	4	3 $\frac{1}{2}$	13	10 $\frac{7}{8}$	4	7 $\frac{7}{8}$	15	0 $\frac{3}{8}$
3	11 $\frac{1}{4}$	12	9 $\frac{1}{2}$ - $\frac{1}{16}$	4	3 $\frac{5}{8}$	13	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	8	15	1
3	11 $\frac{3}{8}$	12	9 $\frac{7}{8}$ - $\frac{1}{16}$	4	3 $\frac{3}{4}$	13	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	8 $\frac{1}{8}$	15	1 $\frac{3}{8}$
3	11 $\frac{1}{2}$	12	10 $\frac{1}{4}$ - $\frac{1}{16}$	4	3 $\frac{7}{8}$	14	0 $\frac{1}{16}$	4	8 $\frac{1}{4}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$
3	11 $\frac{5}{8}$	12	10 $\frac{5}{8}$ - $\frac{1}{16}$	4	4	14	0 $\frac{1}{2}$	4	8 $\frac{3}{8}$	15	2 $\frac{1}{8}$ - $\frac{1}{16}$
3	11 $\frac{3}{4}$	12	11 $\frac{1}{16}$	4	4 $\frac{1}{8}$	14	0 $\frac{7}{8}$	4	8 $\frac{1}{2}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$
3	11 $\frac{7}{8}$	12	11 $\frac{1}{2}$	4	4 $\frac{1}{4}$	14	1 $\frac{1}{4}$	4	8 $\frac{5}{8}$	15	3
4	0	12	11 $\frac{7}{8}$	4	4 $\frac{3}{8}$	14	1 $\frac{5}{8}$	4	8 $\frac{3}{4}$	15	3 $\frac{3}{8}$
4	0 $\frac{1}{8}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$	4	4 $\frac{1}{2}$	14	2	4	8 $\frac{7}{8}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$
4	0 $\frac{1}{4}$	13	0 $\frac{5}{8}$ - $\frac{1}{16}$	4	4 $\frac{5}{8}$	14	2 $\frac{3}{8}$	4	9	15	4 $\frac{1}{8}$ - $\frac{1}{16}$
4	0 $\frac{3}{8}$	13	1 $\frac{1}{16}$	4	4 $\frac{3}{4}$	14	2 $\frac{3}{4}$ - $\frac{1}{16}$	4	9 $\frac{1}{8}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$
4	0 $\frac{1}{2}$	13	1 $\frac{1}{2}$	4	4 $\frac{7}{8}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$	4	9 $\frac{1}{4}$	15	5
4	0 $\frac{5}{8}$	13	1 $\frac{7}{8}$	4	5	14	3 $\frac{1}{2}$ - $\frac{1}{16}$	4	9 $\frac{3}{8}$	15	5 $\frac{3}{8}$
4	0 $\frac{3}{4}$	13	2 $\frac{1}{4}$ - $\frac{1}{16}$	4	5 $\frac{1}{8}$	14	4	4	9 $\frac{1}{2}$	15	5 $\frac{3}{4}$
4	0 $\frac{7}{8}$	13	2 $\frac{5}{8}$ - $\frac{1}{16}$	4	5 $\frac{1}{4}$	14	4 $\frac{3}{8}$	4	9 $\frac{5}{8}$	15	6 $\frac{1}{8}$
4	1	13	3 $\frac{1}{16}$	4	5 $\frac{3}{8}$	14	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	9 $\frac{3}{4}$	15	6 $\frac{1}{2}$
4	1 $\frac{1}{8}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$	4	5 $\frac{1}{2}$	14	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	9 $\frac{7}{8}$	15	6 $\frac{7}{8}$
4	1 $\frac{1}{4}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$	4	5 $\frac{5}{8}$	14	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	10	15	7 $\frac{1}{4}$ - $\frac{1}{16}$
4	1 $\frac{3}{8}$	13	4 $\frac{1}{8}$ - $\frac{1}{16}$	4	5 $\frac{3}{4}$	14	6	4	10 $\frac{1}{8}$	15	7 $\frac{5}{8}$ - $\frac{1}{16}$
4	1 $\frac{1}{2}$	13	4 $\frac{1}{2}$ - $\frac{1}{16}$	4	5 $\frac{7}{8}$	14	6 $\frac{3}{8}$	4	10 $\frac{1}{4}$	15	8 $\frac{1}{8}$
4	1 $\frac{5}{8}$	13	5	4	6	14	6 $\frac{3}{4}$	4	10 $\frac{3}{8}$	15	8 $\frac{1}{2}$
4	1 $\frac{3}{4}$	13	5 $\frac{3}{8}$	4	6 $\frac{1}{8}$	14	7 $\frac{1}{8}$	4	10 $\frac{1}{2}$	15	8 $\frac{7}{8}$
4	1 $\frac{7}{8}$	13	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	6 $\frac{1}{4}$	14	7 $\frac{1}{2}$	4	10 $\frac{5}{8}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$
4	2	13	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	6 $\frac{3}{8}$	14	7 $\frac{7}{8}$	4	10 $\frac{3}{4}$	15	9 $\frac{5}{8}$ - $\frac{1}{16}$
4	2 $\frac{1}{8}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	6 $\frac{1}{2}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$	4	10 $\frac{7}{8}$	15	10 $\frac{1}{16}$
4	2 $\frac{1}{4}$	13	7	4	6 $\frac{5}{8}$	14	8 $\frac{5}{8}$ - $\frac{1}{16}$	4	11	15	10 $\frac{1}{2}$
4	2 $\frac{3}{8}$	13	7 $\frac{3}{8}$	4	6 $\frac{3}{4}$	14	9 $\frac{1}{8}$	4	11 $\frac{1}{8}$	15	10 $\frac{7}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	11 $\frac{1}{4}$	15	11 $\frac{1}{4}$	5	3 $\frac{5}{8}$	17	1	5	8	18	2 $\frac{5}{8}$ - $\frac{1}{16}$
4	11 $\frac{3}{8}$	15	11 $\frac{5}{8}$	5	3 $\frac{3}{4}$	17	1 $\frac{3}{8}$	5	8 $\frac{1}{8}$	18	3 $\frac{1}{8}$
4	11 $\frac{1}{2}$	16	0	5	3 $\frac{1}{2}$	17	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	8 $\frac{1}{4}$	18	3 $\frac{1}{2}$
4	11 $\frac{5}{8}$	16	0 $\frac{3}{8}$	5	4	17	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	8 $\frac{3}{8}$	18	3 $\frac{7}{8}$
4	11 $\frac{3}{4}$	16	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	4 $\frac{1}{8}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	8 $\frac{1}{2}$	18	4 $\frac{1}{4}$ - $\frac{1}{16}$
4	11 $\frac{7}{8}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$	5	4 $\frac{1}{4}$	17	3	5	8 $\frac{5}{8}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$
5	0	16	1 $\frac{1}{2}$ - $\frac{1}{16}$	5	4 $\frac{3}{8}$	17	3 $\frac{3}{8}$	5	8 $\frac{3}{4}$	18	5 $\frac{1}{8}$
5	0 $\frac{1}{8}$	16	2	5	4 $\frac{1}{2}$	17	3 $\frac{3}{4}$	5	8 $\frac{7}{8}$	18	5 $\frac{1}{2}$
5	0 $\frac{1}{4}$	16	2 $\frac{3}{8}$	5	4 $\frac{5}{8}$	17	4 $\frac{1}{8}$	5	9	18	5 $\frac{7}{8}$
5	0 $\frac{3}{8}$	16	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	4 $\frac{3}{4}$	17	4 $\frac{1}{2}$	5	9 $\frac{1}{8}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$
5	0 $\frac{1}{2}$	16	3 $\frac{1}{8}$ - $\frac{1}{16}$	5	4 $\frac{7}{8}$	17	4 $\frac{7}{8}$	5	9 $\frac{1}{4}$	18	6 $\frac{5}{8}$ - $\frac{1}{16}$
5	0 $\frac{5}{8}$	16	3 $\frac{1}{2}$ - $\frac{1}{16}$	5	5	17	5 $\frac{1}{4}$	5	9 $\frac{3}{8}$	18	7 $\frac{1}{16}$
5	0 $\frac{3}{4}$	16	4	5	5 $\frac{1}{8}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$	5	9 $\frac{1}{2}$	18	7 $\frac{3}{8}$ - $\frac{1}{16}$
5	0 $\frac{7}{8}$	16	4 $\frac{3}{8}$	5	5 $\frac{1}{4}$	17	6 $\frac{1}{8}$	5	9 $\frac{5}{8}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$
5	1	16	4 $\frac{3}{4}$	5	5 $\frac{3}{8}$	17	6 $\frac{1}{2}$	5	9 $\frac{3}{4}$	18	8 $\frac{1}{8}$ - $\frac{1}{16}$
5	1 $\frac{1}{8}$	16	5 $\frac{1}{8}$	5	5 $\frac{1}{2}$	17	6 $\frac{7}{8}$	5	9 $\frac{7}{8}$	18	8 $\frac{1}{2}$ - $\frac{1}{16}$
5	1 $\frac{1}{4}$	16	5 $\frac{1}{2}$	5	5 $\frac{5}{8}$	17	7 $\frac{1}{4}$	5	10	18	9
5	1 $\frac{3}{8}$	16	5 $\frac{7}{8}$	5	5 $\frac{3}{4}$	17	7 $\frac{5}{8}$ - $\frac{1}{16}$	5	10 $\frac{1}{8}$	18	9 $\frac{3}{8}$
5	1 $\frac{1}{2}$	16	6 $\frac{1}{4}$ - $\frac{1}{16}$	5	5 $\frac{7}{8}$	17	8 $\frac{1}{8}$	5	10 $\frac{1}{4}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$
5	1 $\frac{5}{8}$	16	6 $\frac{5}{8}$ - $\frac{1}{16}$	5	6	17	8 $\frac{1}{2}$	5	10 $\frac{3}{8}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$
5	1 $\frac{3}{4}$	16	7 $\frac{1}{8}$	5	6 $\frac{1}{8}$	17	8 $\frac{3}{8}$	5	10 $\frac{1}{2}$	18	10 $\frac{1}{2}$ - $\frac{1}{16}$
5	1 $\frac{7}{8}$	16	7 $\frac{1}{2}$	5	6 $\frac{1}{4}$	17	9 $\frac{1}{4}$	5	10 $\frac{5}{8}$	18	11
5	2	16	7 $\frac{7}{8}$	5	6 $\frac{3}{8}$	17	9 $\frac{5}{8}$	5	10 $\frac{3}{4}$	18	11 $\frac{3}{8}$
5	2 $\frac{1}{8}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	6 $\frac{1}{2}$	17	10	5	10 $\frac{7}{8}$	18	11 $\frac{3}{4}$ - $\frac{1}{16}$
5	2 $\frac{1}{4}$	16	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	6 $\frac{5}{8}$	17	10 $\frac{3}{8}$	5	11	19	0 $\frac{1}{8}$ - $\frac{1}{16}$
5	2 $\frac{3}{8}$	16	9 $\frac{1}{8}$	5	6 $\frac{3}{4}$	17	10 $\frac{3}{4}$ - $\frac{1}{16}$	5	11 $\frac{1}{8}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$
5	2 $\frac{1}{2}$	16	9 $\frac{1}{2}$	5	6 $\frac{7}{8}$	17	11 $\frac{1}{8}$ - $\frac{1}{16}$	5	11 $\frac{1}{4}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$
5	2 $\frac{5}{8}$	16	9 $\frac{7}{8}$	5	7	17	11 $\frac{1}{2}$ - $\frac{1}{16}$	5	11 $\frac{3}{8}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$
5	2 $\frac{3}{4}$	16	10 $\frac{1}{4}$	5	7 $\frac{1}{8}$	18	0	5	11 $\frac{1}{2}$	19	1 $\frac{5}{8}$ - $\frac{1}{16}$
5	2 $\frac{7}{8}$	16	10 $\frac{5}{8}$	5	7 $\frac{1}{4}$	18	0 $\frac{3}{8}$	5	11 $\frac{5}{8}$	19	2 $\frac{1}{8}$
5	3	16	11	5	7 $\frac{3}{8}$	18	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	11 $\frac{3}{4}$	19	2 $\frac{1}{2}$
5	3 $\frac{1}{8}$	16	11 $\frac{3}{8}$	5	7 $\frac{1}{2}$	18	1 $\frac{1}{8}$ - $\frac{1}{16}$	5	11 $\frac{7}{8}$	19	2 $\frac{7}{8}$
5	3 $\frac{1}{4}$	16	11 $\frac{3}{4}$ - $\frac{1}{16}$	5	7 $\frac{5}{8}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$	6	0	19	3 $\frac{1}{4}$ - $\frac{1}{16}$
5	3 $\frac{3}{8}$	17	0 $\frac{1}{8}$ - $\frac{1}{16}$	5	7 $\frac{3}{4}$	18	1 $\frac{7}{8}$ - $\frac{1}{16}$	6	0 $\frac{1}{8}$	19	3 $\frac{3}{8}$ - $\frac{1}{16}$
5	3 $\frac{1}{2}$	17	0 $\frac{1}{2}$ - $\frac{1}{16}$	5	7 $\frac{7}{8}$	18	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	0 $\frac{1}{4}$	19	4 $\frac{1}{8}$



ANGLE-IRON RINGS (FLANGE OUTSIDE). 77

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	0 $\frac{3}{8}$	19	4 $\frac{1}{2}$	6	4 $\frac{3}{4}$	20	6 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{1}{8}$	21	8
6	0 $\frac{1}{2}$	19	4 $\frac{7}{8}$	6	4 $\frac{7}{8}$	20	6 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{1}{4}$	21	8 $\frac{3}{8}$
6	0 $\frac{5}{8}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	5	20	7	6	9 $\frac{3}{8}$	21	8 $\frac{3}{4}$
6	0 $\frac{3}{4}$	19	5 $\frac{5}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{8}$	20	7 $\frac{3}{8}$	6	9 $\frac{1}{2}$	21	9 $\frac{1}{8}$
6	0 $\frac{7}{8}$	19	6- $\frac{1}{16}$	6	5 $\frac{1}{4}$	20	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	9 $\frac{5}{8}$	21	9 $\frac{1}{2}$
6	1	19	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	5 $\frac{3}{8}$	20	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{3}{4}$	21	9 $\frac{7}{8}$
6	1 $\frac{1}{8}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{1}{2}$	20	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{7}{8}$	21	10 $\frac{1}{4}$ - $\frac{1}{16}$
6	1 $\frac{1}{4}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{5}{8}$	20	9	6	10	21	10 $\frac{5}{8}$ - $\frac{1}{16}$
6	1 $\frac{3}{8}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{3}{4}$	20	9 $\frac{3}{8}$	6	10 $\frac{1}{8}$	21	11 $\frac{1}{8}$
6	1 $\frac{1}{2}$	19	8	6	5 $\frac{7}{8}$	20	9 $\frac{3}{4}$	6	10 $\frac{1}{4}$	21	11 $\frac{1}{2}$
6	1 $\frac{5}{8}$	19	8 $\frac{3}{8}$	6	6	20	10 $\frac{1}{8}$	6	10 $\frac{3}{8}$	21	11 $\frac{7}{8}$
6	1 $\frac{3}{4}$	19	8 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{1}{8}$	20	10 $\frac{1}{2}$	6	10 $\frac{1}{2}$	22	0 $\frac{1}{4}$ - $\frac{1}{16}$
6	1 $\frac{7}{8}$	19	9 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{1}{4}$	20	10 $\frac{7}{8}$	6	10 $\frac{5}{8}$	22	0 $\frac{3}{8}$ - $\frac{1}{16}$
6	2	19	9 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{3}{8}$	20	11 $\frac{1}{4}$ - $\frac{1}{16}$	6	10 $\frac{3}{4}$	22	1 $\frac{1}{8}$
6	2 $\frac{1}{8}$	19	10	6	6 $\frac{1}{2}$	20	11 $\frac{5}{8}$ - $\frac{1}{16}$	6	10 $\frac{7}{8}$	22	1 $\frac{1}{2}$
6	2 $\frac{1}{4}$	19	10 $\frac{3}{8}$	6	6 $\frac{5}{8}$	21	0 $\frac{1}{8}$	6	11	22	1 $\frac{7}{8}$
6	2 $\frac{3}{8}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{3}{4}$	21	0 $\frac{1}{2}$	6	11 $\frac{1}{8}$	22	2 $\frac{1}{4}$
6	2 $\frac{1}{2}$	19	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{7}{8}$	21	0 $\frac{7}{8}$	6	11 $\frac{1}{4}$	22	2 $\frac{5}{8}$
6	2 $\frac{5}{8}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	7	21	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	11 $\frac{3}{8}$	22	3
6	2 $\frac{3}{4}$	19	11 $\frac{7}{8}$ - $\frac{1}{16}$	6	7 $\frac{1}{8}$	21	1 $\frac{5}{8}$ - $\frac{1}{16}$	6	11 $\frac{1}{2}$	22	3 $\frac{3}{8}$
6	2 $\frac{7}{8}$	20	0 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{1}{4}$	21	2 $\frac{1}{8}$	6	11 $\frac{5}{8}$	22	3 $\frac{3}{4}$ - $\frac{1}{16}$
6	3	20	0 $\frac{5}{8}$ - $\frac{1}{16}$	6	7 $\frac{3}{8}$	21	2 $\frac{1}{2}$	6	11 $\frac{3}{4}$	22	4 $\frac{1}{8}$ - $\frac{1}{16}$
6	3 $\frac{1}{8}$	20	1 $\frac{1}{8}$	6	7 $\frac{1}{2}$	21	2 $\frac{7}{8}$	6	11 $\frac{7}{8}$	22	4 $\frac{1}{2}$ - $\frac{1}{16}$
6	3 $\frac{1}{4}$	20	1 $\frac{1}{2}$	6	7 $\frac{5}{8}$	21	3 $\frac{1}{4}$	7	0	22	5
6	3 $\frac{3}{8}$	20	1 $\frac{7}{8}$	6	7 $\frac{3}{4}$	21	3 $\frac{5}{8}$	7	0 $\frac{1}{8}$	22	5 $\frac{3}{8}$
6	3 $\frac{1}{2}$	20	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{7}{8}$	21	4	7	0 $\frac{1}{4}$	22	5 $\frac{3}{4}$ - $\frac{1}{16}$
6	3 $\frac{5}{8}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	8	21	4 $\frac{3}{8}$	7	0 $\frac{3}{8}$	22	6 $\frac{1}{8}$ - $\frac{1}{16}$
6	3 $\frac{3}{4}$	20	3 $\frac{1}{8}$	6	8 $\frac{1}{8}$	21	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	0 $\frac{1}{2}$	22	6 $\frac{1}{2}$ - $\frac{1}{16}$
6	3 $\frac{7}{8}$	20	3 $\frac{1}{2}$	6	8 $\frac{1}{4}$	21	5 $\frac{1}{8}$ - $\frac{1}{16}$	7	0 $\frac{5}{8}$	22	7
6	4	20	3 $\frac{7}{8}$	6	8 $\frac{3}{8}$	21	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	0 $\frac{3}{4}$	22	7 $\frac{3}{8}$
6	4 $\frac{1}{8}$	20	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{1}{2}$	21	6	7	0 $\frac{7}{8}$	22	7 $\frac{3}{4}$
6	4 $\frac{1}{4}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	8 $\frac{5}{8}$	21	6 $\frac{3}{8}$	7	1	22	8 $\frac{1}{8}$
6	4 $\frac{3}{8}$	20	5- $\frac{1}{16}$	6	8 $\frac{3}{4}$	21	6 $\frac{3}{4}$ - $\frac{1}{16}$	7	1 $\frac{1}{8}$	22	8 $\frac{1}{2}$
6	4 $\frac{1}{2}$	20	5 $\frac{3}{8}$ - $\frac{1}{16}$	6	8 $\frac{7}{8}$	21	7 $\frac{1}{8}$ - $\frac{1}{16}$	7	1 $\frac{1}{4}$	22	8 $\frac{7}{8}$
6	4 $\frac{5}{8}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$	6	9	21	7 $\frac{1}{2}$ - $\frac{1}{16}$	7	1 $\frac{3}{8}$	22	9 $\frac{1}{4}$ - $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	1 $\frac{1}{2}$	22	9 $\frac{5}{8}$ - $\frac{1}{16}$	7	5 $\frac{7}{8}$	23	11 $\frac{3}{8}$ - $\frac{1}{16}$	7	10 $\frac{1}{4}$	25	1 $\frac{1}{8}$ - $\frac{1}{16}$
7	1 $\frac{5}{8}$	22	10 $\frac{1}{8}$	7	6	23	11 $\frac{3}{4}$ - $\frac{1}{16}$	7	10 $\frac{3}{8}$	25	1 $\frac{1}{2}$ - $\frac{1}{16}$
7	1 $\frac{3}{4}$	22	10 $\frac{1}{2}$	7	6 $\frac{1}{8}$	24	0 $\frac{1}{8}$ - $\frac{1}{16}$	7	10 $\frac{1}{2}$	25	2
7	1 $\frac{7}{8}$	22	10 $\frac{7}{8}$	7	6 $\frac{1}{4}$	24	0 $\frac{1}{2}$ - $\frac{1}{16}$	7	10 $\frac{5}{8}$	25	2 $\frac{3}{8}$
7	2	22	11 $\frac{1}{4}$ - $\frac{1}{16}$	7	6 $\frac{3}{8}$	24	1	7	10 $\frac{3}{4}$	25	2 $\frac{3}{4}$ - $\frac{1}{16}$
7	2 $\frac{1}{8}$	22	11 $\frac{5}{8}$ - $\frac{1}{16}$	7	6 $\frac{1}{2}$	24	1 $\frac{3}{8}$	7	10 $\frac{7}{8}$	25	3 $\frac{1}{8}$ - $\frac{1}{16}$
7	2 $\frac{1}{4}$	23	0 $\frac{1}{8}$	7	6 $\frac{5}{8}$	24	1 $\frac{3}{4}$ - $\frac{1}{16}$	7	11	25	3 $\frac{1}{2}$ - $\frac{1}{16}$
7	2 $\frac{3}{8}$	23	0 $\frac{1}{2}$	7	6 $\frac{3}{4}$	24	2 $\frac{1}{8}$ - $\frac{1}{16}$	7	11 $\frac{1}{8}$	25	3 $\frac{7}{8}$ - $\frac{1}{16}$
7	2 $\frac{1}{2}$	23	0 $\frac{7}{8}$	7	6 $\frac{7}{8}$	24	2 $\frac{1}{2}$ - $\frac{1}{16}$	7	11 $\frac{1}{4}$	25	4 $\frac{1}{4}$ - $\frac{1}{16}$
7	2 $\frac{5}{8}$	23	1 $\frac{1}{4}$	7	7	24	3	7	11 $\frac{3}{8}$	25	4 $\frac{5}{8}$ - $\frac{1}{16}$
7	2 $\frac{3}{4}$	23	1 $\frac{3}{8}$	7	7 $\frac{1}{8}$	24	3 $\frac{3}{8}$	7	11 $\frac{1}{2}$	25	5 $\frac{1}{8}$
7	2 $\frac{7}{8}$	23	2	7	7 $\frac{1}{4}$	24	3 $\frac{3}{4}$ - $\frac{1}{16}$	7	11 $\frac{5}{8}$	25	5 $\frac{1}{2}$
7	3	23	2 $\frac{3}{8}$	7	7 $\frac{3}{8}$	24	4 $\frac{1}{8}$ - $\frac{1}{16}$	7	11 $\frac{3}{4}$	25	5 $\frac{7}{8}$
7	3 $\frac{1}{8}$	23	2 $\frac{3}{4}$ - $\frac{1}{16}$	7	7 $\frac{1}{2}$	24	4 $\frac{1}{2}$ - $\frac{1}{16}$	7	11 $\frac{7}{8}$	25	6 $\frac{1}{4}$ - $\frac{1}{16}$
7	3 $\frac{1}{4}$	23	3 $\frac{1}{8}$ - $\frac{1}{16}$	7	7 $\frac{5}{8}$	24	5	8	0	25	6 $\frac{3}{8}$ - $\frac{1}{16}$
7	3 $\frac{3}{8}$	23	3 $\frac{1}{2}$ - $\frac{1}{16}$	7	7 $\frac{3}{4}$	24	5 $\frac{3}{8}$	8	0 $\frac{1}{8}$	25	7 $\frac{1}{8}$
7	3 $\frac{1}{2}$	23	4	7	7 $\frac{7}{8}$	24	5 $\frac{3}{4}$	8	0 $\frac{1}{4}$	25	7 $\frac{1}{2}$
7	3 $\frac{5}{8}$	23	4 $\frac{3}{8}$	7	8	24	6 $\frac{1}{8}$	8	0 $\frac{3}{8}$	25	7 $\frac{7}{8}$
7	3 $\frac{3}{4}$	23	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	8 $\frac{1}{8}$	24	6 $\frac{1}{2}$	8	0 $\frac{1}{2}$	25	8 $\frac{1}{4}$ - $\frac{1}{16}$
7	3 $\frac{7}{8}$	23	5 $\frac{1}{8}$ - $\frac{1}{16}$	7	8 $\frac{1}{4}$	24	6 $\frac{7}{8}$	8	0 $\frac{5}{8}$	25	8 $\frac{3}{8}$ - $\frac{1}{16}$
7	4	23	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	8 $\frac{3}{8}$	24	7 $\frac{1}{4}$ - $\frac{1}{16}$	8	0 $\frac{3}{4}$	25	9 $\frac{1}{16}$
7	4 $\frac{1}{8}$	23	6	7	8 $\frac{1}{2}$	24	7 $\frac{5}{8}$ - $\frac{1}{16}$	8	0 $\frac{7}{8}$	25	9 $\frac{3}{8}$ - $\frac{1}{16}$
7	4 $\frac{1}{4}$	23	6 $\frac{3}{8}$	7	8 $\frac{5}{8}$	24	8 $\frac{1}{8}$	8	1	25	9 $\frac{3}{4}$ - $\frac{1}{16}$
7	4 $\frac{3}{8}$	23	6 $\frac{3}{4}$	7	8 $\frac{3}{4}$	24	8 $\frac{1}{2}$	8	1 $\frac{1}{8}$	25	10 $\frac{1}{8}$ - $\frac{1}{16}$
7	4 $\frac{1}{2}$	23	7 $\frac{1}{8}$	7	8 $\frac{7}{8}$	24	8 $\frac{7}{8}$	8	1 $\frac{1}{4}$	25	10 $\frac{1}{2}$ - $\frac{1}{16}$
7	4 $\frac{5}{8}$	23	7 $\frac{1}{2}$	7	9	24	9 $\frac{1}{4}$ - $\frac{1}{16}$	8	1 $\frac{3}{8}$	25	11
7	4 $\frac{3}{4}$	23	7 $\frac{7}{8}$	7	9 $\frac{1}{8}$	24	9 $\frac{5}{8}$ - $\frac{1}{16}$	8	1 $\frac{1}{2}$	25	11 $\frac{3}{8}$
7	4 $\frac{7}{8}$	23	8 $\frac{1}{4}$ - $\frac{1}{16}$	7	9 $\frac{1}{4}$	24	10 $\frac{1}{16}$	8	1 $\frac{5}{8}$	25	11 $\frac{3}{4}$ - $\frac{1}{16}$
7	5	23	8 $\frac{5}{8}$ - $\frac{1}{16}$	7	9 $\frac{3}{8}$	24	10 $\frac{3}{8}$ - $\frac{1}{16}$	8	1 $\frac{3}{4}$	26	0 $\frac{1}{8}$ - $\frac{1}{16}$
7	5 $\frac{1}{8}$	23	9 $\frac{1}{16}$	7	9 $\frac{1}{2}$	24	10 $\frac{3}{4}$ - $\frac{1}{16}$	8	1 $\frac{7}{8}$	26	0 $\frac{1}{2}$ - $\frac{1}{16}$
7	5 $\frac{1}{4}$	23	9 $\frac{1}{2}$	7	9 $\frac{5}{8}$	24	11 $\frac{1}{8}$ - $\frac{1}{16}$	8	2	26	1
7	5 $\frac{3}{8}$	23	9 $\frac{7}{8}$	7	9 $\frac{3}{4}$	24	11 $\frac{1}{2}$ - $\frac{1}{16}$	8	2 $\frac{1}{8}$	26	1 $\frac{3}{8}$
7	5 $\frac{1}{2}$	23	10 $\frac{1}{4}$ - $\frac{1}{16}$	7	9 $\frac{7}{8}$	25	0	8	2 $\frac{1}{4}$	26	1 $\frac{3}{4}$ - $\frac{1}{16}$
7	5 $\frac{5}{8}$	23	10 $\frac{3}{8}$ - $\frac{1}{16}$	7	10	25	0 $\frac{3}{8}$	8	2 $\frac{3}{8}$	26	2 $\frac{1}{8}$ - $\frac{1}{16}$
7	5 $\frac{3}{4}$	23	11 $\frac{1}{16}$	7	10 $\frac{1}{8}$	25	0 $\frac{3}{4}$ - $\frac{1}{16}$	8	2 $\frac{1}{2}$	26	2 $\frac{1}{2}$ - $\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 79

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	2 $\frac{5}{8}$	26	2 $\frac{7}{8}$ - $\frac{1}{16}$	8	7	27	4 $\frac{5}{8}$ - $\frac{1}{16}$	8	11 $\frac{3}{8}$	28	6 $\frac{3}{8}$
8	2 $\frac{3}{4}$	26	3 $\frac{1}{4}$ - $\frac{1}{16}$	8	7 $\frac{1}{8}$	27	5 $\frac{1}{16}$	8	11 $\frac{1}{2}$	28	6 $\frac{3}{4}$ - $\frac{1}{16}$
8	2 $\frac{7}{8}$	26	3 $\frac{5}{8}$ - $\frac{1}{16}$	8	7 $\frac{1}{4}$	27	5 $\frac{3}{8}$ - $\frac{1}{16}$	8	11 $\frac{5}{8}$	28	7 $\frac{1}{8}$ - $\frac{1}{16}$
8	3	26	4 $\frac{1}{8}$	8	7 $\frac{3}{8}$	27	5 $\frac{3}{4}$ - $\frac{1}{16}$	8	11 $\frac{3}{4}$	28	7 $\frac{1}{2}$ - $\frac{1}{16}$
8	3 $\frac{1}{8}$	26	4 $\frac{1}{2}$	8	7 $\frac{1}{2}$	27	6 $\frac{1}{4}$	8	11 $\frac{7}{8}$	28	8
8	3 $\frac{1}{4}$	26	4 $\frac{7}{8}$	8	7 $\frac{5}{8}$	27	6 $\frac{5}{8}$	9	0	28	8 $\frac{3}{8}$
8	3 $\frac{3}{8}$	26	5 $\frac{1}{4}$ - $\frac{1}{16}$	8	7 $\frac{3}{4}$	27	7	9	0 $\frac{1}{8}$	28	8 $\frac{3}{4}$
8	3 $\frac{1}{2}$	26	5 $\frac{5}{8}$ - $\frac{1}{16}$	8	7 $\frac{7}{8}$	27	7 $\frac{3}{8}$ - $\frac{1}{16}$	9	0 $\frac{1}{4}$	28	9 $\frac{1}{8}$
8	3 $\frac{5}{8}$	26	6 $\frac{1}{16}$	8	8	27	7 $\frac{3}{4}$ - $\frac{1}{16}$	9	0 $\frac{3}{8}$	28	9 $\frac{1}{2}$
8	3 $\frac{3}{4}$	26	6 $\frac{3}{8}$ - $\frac{1}{16}$	8	8 $\frac{1}{8}$	27	8 $\frac{1}{8}$ - $\frac{1}{16}$	9	0 $\frac{1}{2}$	28	9 $\frac{7}{8}$ - $\frac{1}{16}$
8	3 $\frac{7}{8}$	26	6 $\frac{3}{4}$ - $\frac{1}{16}$	8	8 $\frac{1}{4}$	27	8 $\frac{1}{2}$ - $\frac{1}{16}$	9	0 $\frac{5}{8}$	28	10 $\frac{1}{4}$ - $\frac{1}{16}$
8	4	26	7 $\frac{1}{4}$	8	8 $\frac{3}{8}$	27	9	9	0 $\frac{3}{4}$	28	10 $\frac{3}{4}$
8	4 $\frac{1}{8}$	26	7 $\frac{5}{8}$	8	8 $\frac{1}{2}$	27	9 $\frac{3}{8}$	9	0 $\frac{7}{8}$	28	11 $\frac{1}{8}$
8	4 $\frac{1}{4}$	26	8	8	8 $\frac{5}{8}$	27	9 $\frac{3}{4}$	9	1	28	11 $\frac{1}{2}$
8	4 $\frac{3}{8}$	26	8 $\frac{3}{8}$ - $\frac{1}{16}$	8	8 $\frac{3}{4}$	27	10 $\frac{1}{8}$	9	1 $\frac{1}{8}$	28	11 $\frac{7}{8}$
8	4 $\frac{1}{2}$	26	8 $\frac{3}{4}$ - $\frac{1}{16}$	8	8 $\frac{7}{8}$	27	10 $\frac{1}{2}$	9	1 $\frac{1}{4}$	29	0 $\frac{1}{4}$ - $\frac{1}{16}$
8	4 $\frac{5}{8}$	26	9 $\frac{1}{8}$ - $\frac{1}{16}$	8	9	27	10 $\frac{5}{8}$ - $\frac{1}{16}$	9	1 $\frac{3}{8}$	29	0 $\frac{5}{8}$ - $\frac{1}{16}$
8	4 $\frac{3}{4}$	26	9 $\frac{1}{2}$ - $\frac{1}{16}$	8	9 $\frac{1}{8}$	27	11 $\frac{1}{4}$ - $\frac{1}{16}$	9	1 $\frac{1}{2}$	29	1 $\frac{1}{16}$
8	4 $\frac{7}{8}$	26	10	8	9 $\frac{1}{4}$	27	11 $\frac{3}{4}$	9	1 $\frac{5}{8}$	29	1 $\frac{1}{2}$
8	5	26	10 $\frac{3}{8}$	8	9 $\frac{3}{8}$	28	0 $\frac{1}{8}$	9	1 $\frac{3}{4}$	29	1 $\frac{7}{8}$
8	5 $\frac{1}{8}$	26	10 $\frac{3}{4}$	8	9 $\frac{1}{2}$	28	0 $\frac{1}{2}$	9	1 $\frac{7}{8}$	29	2 $\frac{1}{4}$
8	5 $\frac{1}{4}$	26	11 $\frac{1}{8}$ - $\frac{1}{16}$	8	9 $\frac{5}{8}$	28	0 $\frac{7}{8}$	9	2	29	2 $\frac{5}{8}$
8	5 $\frac{3}{8}$	26	11 $\frac{1}{2}$ - $\frac{1}{16}$	8	9 $\frac{3}{4}$	28	1 $\frac{1}{4}$ - $\frac{1}{16}$	9	2 $\frac{1}{8}$	29	3
8	5 $\frac{1}{2}$	26	11 $\frac{7}{8}$ - $\frac{1}{16}$	8	9 $\frac{7}{8}$	28	1 $\frac{3}{8}$ - $\frac{1}{16}$	9	2 $\frac{1}{4}$	29	3 $\frac{3}{8}$ - $\frac{1}{16}$
8	5 $\frac{5}{8}$	27	0 $\frac{1}{4}$ - $\frac{1}{16}$	8	10	28	2 $\frac{1}{16}$	9	2 $\frac{3}{8}$	29	3 $\frac{3}{4}$ - $\frac{1}{16}$
8	5 $\frac{3}{4}$	27	0 $\frac{5}{8}$ - $\frac{1}{16}$	8	10 $\frac{1}{8}$	28	2 $\frac{1}{2}$	9	2 $\frac{1}{2}$	29	4 $\frac{1}{4}$
8	5 $\frac{7}{8}$	27	1 $\frac{1}{16}$	8	10 $\frac{1}{4}$	28	2 $\frac{7}{8}$	9	2 $\frac{5}{8}$	29	4 $\frac{5}{8}$
8	6	27	1 $\frac{1}{2}$	8	10 $\frac{3}{8}$	28	3 $\frac{1}{4}$	9	2 $\frac{3}{4}$	29	5
8	6 $\frac{1}{8}$	27	1 $\frac{7}{8}$ - $\frac{1}{16}$	8	10 $\frac{1}{2}$	28	3 $\frac{5}{8}$	9	2 $\frac{7}{8}$	29	5 $\frac{3}{8}$
8	6 $\frac{1}{4}$	27	2 $\frac{1}{4}$ - $\frac{1}{16}$	8	10 $\frac{5}{8}$	28	4	9	3	29	5 $\frac{3}{4}$ - $\frac{1}{16}$
8	6 $\frac{3}{8}$	27	2 $\frac{5}{8}$ - $\frac{1}{16}$	8	10 $\frac{3}{4}$	28	4 $\frac{3}{8}$ - $\frac{1}{16}$	9	3 $\frac{1}{8}$	29	6 $\frac{1}{8}$ - $\frac{1}{16}$
8	6 $\frac{1}{2}$	27	3 $\frac{1}{16}$	8	10 $\frac{7}{8}$	28	4 $\frac{7}{8}$	9	3 $\frac{1}{4}$	29	6 $\frac{1}{2}$ - $\frac{1}{16}$
8	6 $\frac{5}{8}$	27	3 $\frac{1}{2}$	8	11	28	5 $\frac{1}{4}$	9	3 $\frac{3}{8}$	29	7
8	6 $\frac{3}{4}$	27	3 $\frac{7}{8}$	8	11 $\frac{1}{8}$	28	5 $\frac{5}{8}$	9	3 $\frac{1}{2}$	29	7 $\frac{3}{8}$
8	6 $\frac{7}{8}$	27	4 $\frac{1}{4}$	8	11 $\frac{1}{4}$	28	6	9	3 $\frac{5}{8}$	29	7 $\frac{3}{4}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	3 $\frac{3}{4}$	29	8 $\frac{1}{8}$	9	8 $\frac{1}{8}$	30	9 $\frac{7}{8}$	10	0 $\frac{1}{2}$	31	11 $\frac{5}{8}$
9	3 $\frac{7}{8}$	29	8 $\frac{1}{2}$ - $\frac{1}{16}$	9	8 $\frac{1}{4}$	30	10 $\frac{1}{4}$	10	0 $\frac{5}{8}$	32	0
9	4	29	8 $\frac{7}{8}$ - $\frac{1}{16}$	9	8 $\frac{3}{8}$	30	10 $\frac{5}{8}$ - $\frac{1}{16}$	10	0 $\frac{3}{4}$	32	0 $\frac{3}{8}$ - $\frac{1}{16}$
9	4 $\frac{1}{8}$	29	9 $\frac{1}{4}$ - $\frac{1}{16}$	9	8 $\frac{1}{2}$	30	11 $\frac{1}{16}$	10	0 $\frac{7}{8}$	32	0 $\frac{3}{4}$ - $\frac{1}{16}$
9	4 $\frac{1}{4}$	29	9 $\frac{3}{4}$	9	8 $\frac{5}{8}$	30	11 $\frac{3}{8}$ - $\frac{1}{16}$	10	1	32	1 $\frac{1}{8}$ - $\frac{1}{16}$
9	4 $\frac{3}{8}$	29	10 $\frac{1}{8}$	9	8 $\frac{3}{4}$	30	11 $\frac{3}{4}$ - $\frac{1}{16}$	10	1 $\frac{1}{8}$	32	1 $\frac{5}{8}$
9	4 $\frac{1}{2}$	29	10 $\frac{1}{2}$	9	8 $\frac{7}{8}$	31	0 $\frac{1}{4}$	10	1 $\frac{1}{4}$	32	2
9	4 $\frac{5}{8}$	29	10 $\frac{7}{8}$	9	9	31	0 $\frac{5}{8}$	10	1 $\frac{3}{8}$	32	2 $\frac{3}{8}$
9	4 $\frac{3}{4}$	29	11 $\frac{1}{4}$ - $\frac{1}{16}$	9	9 $\frac{1}{8}$	31	1	10	1 $\frac{1}{2}$	32	2 $\frac{3}{4}$ - $\frac{1}{16}$
9	4 $\frac{7}{8}$	29	11 $\frac{5}{8}$ - $\frac{1}{16}$	9	9 $\frac{1}{4}$	31	1 $\frac{3}{8}$ - $\frac{1}{16}$	10	1 $\frac{5}{8}$	32	3 $\frac{1}{8}$ - $\frac{1}{16}$
9	5	30	0 $\frac{1}{16}$	9	9 $\frac{3}{8}$	31	1 $\frac{3}{4}$ - $\frac{1}{16}$	10	1 $\frac{3}{4}$	32	3 $\frac{1}{2}$ - $\frac{1}{16}$
9	5 $\frac{1}{8}$	30	0 $\frac{3}{8}$ - $\frac{1}{16}$	9	9 $\frac{1}{2}$	31	2 $\frac{1}{4}$	10	1 $\frac{7}{8}$	32	3 $\frac{7}{8}$ - $\frac{1}{16}$
9	5 $\frac{1}{4}$	30	0 $\frac{7}{8}$	9	9 $\frac{5}{8}$	31	2 $\frac{5}{8}$	10	2	32	4 $\frac{3}{8}$
9	5 $\frac{3}{8}$	30	1 $\frac{1}{4}$	9	9 $\frac{3}{4}$	31	3	10	2 $\frac{1}{8}$	32	4 $\frac{3}{4}$
9	5 $\frac{1}{2}$	30	1 $\frac{5}{8}$	9	9 $\frac{7}{8}$	31	3 $\frac{3}{8}$	10	2 $\frac{1}{4}$	32	5 $\frac{1}{8}$
9	5 $\frac{5}{8}$	30	2	9	10	31	3 $\frac{3}{4}$	10	2 $\frac{3}{8}$	32	5 $\frac{1}{2}$
9	5 $\frac{3}{4}$	30	2 $\frac{3}{8}$ - $\frac{1}{16}$	9	10 $\frac{1}{8}$	31	4 $\frac{1}{8}$	10	2 $\frac{1}{2}$	32	5 $\frac{7}{8}$ - $\frac{1}{16}$
9	5 $\frac{7}{8}$	30	2 $\frac{3}{4}$ - $\frac{1}{16}$	9	10 $\frac{1}{4}$	31	4 $\frac{1}{2}$ - $\frac{1}{16}$	10	2 $\frac{5}{8}$	32	6 $\frac{1}{4}$ - $\frac{1}{16}$
9	6	30	3 $\frac{1}{4}$	9	10 $\frac{3}{8}$	31	5	10	2 $\frac{3}{4}$	32	6 $\frac{3}{8}$ - $\frac{1}{16}$
9	6 $\frac{1}{8}$	30	3 $\frac{5}{8}$	9	10 $\frac{1}{2}$	31	5 $\frac{3}{8}$	10	2 $\frac{7}{8}$	32	7 $\frac{1}{8}$
9	6 $\frac{1}{4}$	30	4	9	10 $\frac{5}{8}$	31	5 $\frac{3}{4}$	10	3	32	7 $\frac{1}{2}$
9	6 $\frac{3}{8}$	30	4 $\frac{3}{8}$	9	10 $\frac{3}{4}$	31	6 $\frac{1}{8}$	10	3 $\frac{1}{8}$	32	7 $\frac{7}{8}$
9	6 $\frac{1}{2}$	30	4 $\frac{7}{8}$	9	10 $\frac{7}{8}$	31	6 $\frac{1}{2}$	10	3 $\frac{1}{4}$	32	8 $\frac{1}{4}$
9	6 $\frac{5}{8}$	30	5 $\frac{1}{8}$ - $\frac{1}{16}$	9	11	31	6 $\frac{7}{8}$ - $\frac{1}{16}$	10	3 $\frac{3}{8}$	32	8 $\frac{3}{8}$ - $\frac{1}{16}$
9	6 $\frac{3}{4}$	30	5 $\frac{1}{2}$ - $\frac{1}{16}$	9	11 $\frac{1}{8}$	31	7 $\frac{1}{4}$ - $\frac{1}{16}$	10	3 $\frac{1}{2}$	32	9 $\frac{1}{16}$
9	6 $\frac{7}{8}$	30	6	9	11 $\frac{1}{4}$	31	7 $\frac{3}{8}$ - $\frac{1}{16}$	10	3 $\frac{5}{8}$	32	9 $\frac{3}{8}$ - $\frac{1}{16}$
9	7	30	6 $\frac{3}{8}$	9	11 $\frac{3}{8}$	31	8 $\frac{1}{8}$	10	3 $\frac{3}{4}$	32	9 $\frac{3}{4}$ - $\frac{1}{16}$
9	7 $\frac{1}{8}$	30	6 $\frac{3}{4}$	9	11 $\frac{1}{2}$	31	8 $\frac{1}{2}$	10	3 $\frac{7}{8}$	32	10 $\frac{1}{4}$
9	7 $\frac{1}{4}$	30	7 $\frac{1}{8}$	9	11 $\frac{5}{8}$	31	8 $\frac{7}{8}$	10	4	32	10 $\frac{5}{8}$
9	7 $\frac{3}{8}$	30	7 $\frac{1}{2}$	9	11 $\frac{3}{4}$	31	9 $\frac{1}{4}$	10	4 $\frac{1}{8}$	32	11
9	7 $\frac{1}{2}$	30	7 $\frac{7}{8}$ - $\frac{1}{16}$	9	11 $\frac{7}{8}$	31	9 $\frac{5}{8}$ - $\frac{1}{16}$	10	4 $\frac{1}{4}$	32	11 $\frac{3}{8}$ - $\frac{1}{16}$
9	7 $\frac{5}{8}$	30	8 $\frac{1}{4}$ - $\frac{1}{16}$	10	0	31	10 $\frac{1}{16}$	10	4 $\frac{3}{8}$	32	11 $\frac{3}{4}$ - $\frac{1}{16}$
9	7 $\frac{3}{4}$	30	8 $\frac{3}{4}$	10	0 $\frac{1}{8}$	31	10 $\frac{3}{8}$ - $\frac{1}{16}$	10	4 $\frac{1}{2}$	33	0 $\frac{1}{4}$
9	7 $\frac{7}{8}$	30	9 $\frac{1}{8}$	10	0 $\frac{1}{4}$	31	10 $\frac{7}{8}$	10	4 $\frac{5}{8}$	33	0 $\frac{5}{8}$
9	8	30	9 $\frac{1}{2}$	10	0 $\frac{3}{8}$	31	11 $\frac{1}{4}$	10	4 $\frac{3}{4}$	33	1

ANGLE-IRON RINGS (FLANGE OUTSIDE). 81

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	4 $\frac{7}{8}$	33	1 $\frac{3}{8}$	10	9 $\frac{1}{4}$	34	3 $\frac{1}{8}$	11	1 $\frac{5}{8}$	35	4 $\frac{7}{8}$
10	5	33	1 $\frac{3}{4}$	10	9 $\frac{3}{8}$	34	3 $\frac{1}{2}$	11	1 $\frac{3}{4}$	35	5 $\frac{1}{4}$
10	5 $\frac{1}{8}$	33	2 $\frac{1}{8}$ - $\frac{1}{16}$	10	9 $\frac{1}{2}$	34	3 $\frac{7}{8}$ - $\frac{1}{16}$	11	1 $\frac{7}{8}$	35	5 $\frac{3}{8}$
10	5 $\frac{1}{4}$	33	2 $\frac{1}{2}$ - $\frac{1}{16}$	10	9 $\frac{5}{8}$	34	4 $\frac{1}{4}$ - $\frac{1}{16}$	11	2	35	6- $\frac{1}{16}$
10	5 $\frac{3}{8}$	33	3	10	9 $\frac{3}{4}$	34	4 $\frac{5}{8}$ - $\frac{1}{16}$	11	2 $\frac{1}{8}$	35	6 $\frac{3}{8}$ - $\frac{1}{16}$
10	5 $\frac{1}{2}$	33	3 $\frac{3}{8}$	10	9 $\frac{7}{8}$	34	5- $\frac{1}{16}$	11	2 $\frac{1}{4}$	35	6 $\frac{3}{4}$ - $\frac{1}{16}$
10	5 $\frac{3}{4}$	33	3 $\frac{3}{4}$	10	10	34	5 $\frac{1}{2}$	11	2 $\frac{3}{8}$	35	7 $\frac{1}{4}$
10	5 $\frac{3}{4}$	33	4 $\frac{1}{8}$	10	10 $\frac{1}{8}$	34	5 $\frac{7}{8}$	11	2 $\frac{1}{2}$	35	7 $\frac{5}{8}$
10	5 $\frac{7}{8}$	33	4 $\frac{1}{2}$	10	10 $\frac{1}{4}$	34	6 $\frac{1}{4}$	11	2 $\frac{5}{8}$	35	8
10	6	33	4 $\frac{7}{8}$	10	10 $\frac{3}{8}$	34	6 $\frac{5}{8}$ - $\frac{1}{16}$	11	2 $\frac{3}{4}$	35	8 $\frac{3}{8}$ - $\frac{1}{16}$
10	6 $\frac{1}{8}$	33	5 $\frac{1}{4}$ - $\frac{1}{16}$	10	10 $\frac{1}{2}$	34	7- $\frac{1}{16}$	11	2 $\frac{7}{8}$	35	8 $\frac{3}{4}$ - $\frac{1}{16}$
10	6 $\frac{1}{4}$	33	5 $\frac{3}{8}$ - $\frac{1}{16}$	10	10 $\frac{3}{8}$	34	7 $\frac{3}{8}$ - $\frac{1}{16}$	11	3	35	9 $\frac{1}{8}$ - $\frac{1}{16}$
10	6 $\frac{3}{8}$	33	6 $\frac{1}{16}$	10	10 $\frac{3}{4}$	34	7 $\frac{3}{4}$ - $\frac{1}{16}$	11	3 $\frac{1}{8}$	35	9 $\frac{1}{2}$ - $\frac{1}{16}$
10	6 $\frac{1}{2}$	33	6 $\frac{1}{2}$	10	10 $\frac{7}{8}$	34	8 $\frac{1}{4}$	11	3 $\frac{1}{4}$	35	10
10	6 $\frac{5}{8}$	33	6 $\frac{7}{8}$	10	11	34	8 $\frac{5}{8}$	11	3 $\frac{3}{8}$	35	10 $\frac{3}{8}$
10	6 $\frac{3}{4}$	33	7 $\frac{1}{4}$	10	11 $\frac{1}{8}$	34	9	11	3 $\frac{1}{2}$	35	10 $\frac{3}{4}$
10	6 $\frac{7}{8}$	33	7 $\frac{3}{8}$ - $\frac{1}{16}$	10	11 $\frac{1}{4}$	34	9 $\frac{3}{8}$	11	3 $\frac{5}{8}$	35	11 $\frac{1}{8}$
10	7	33	8 $\frac{1}{16}$	10	11 $\frac{3}{8}$	34	9 $\frac{3}{4}$ - $\frac{1}{16}$	11	3 $\frac{3}{4}$	35	11 $\frac{1}{2}$ - $\frac{1}{16}$
10	7 $\frac{1}{8}$	33	8 $\frac{3}{8}$ - $\frac{1}{16}$	10	11 $\frac{1}{2}$	34	10 $\frac{1}{8}$ - $\frac{1}{16}$	11	3 $\frac{7}{8}$	35	11 $\frac{7}{8}$ - $\frac{1}{16}$
10	7 $\frac{1}{4}$	33	8 $\frac{7}{8}$	10	11 $\frac{5}{8}$	34	10 $\frac{1}{2}$ - $\frac{1}{16}$	11	4	36	0 $\frac{1}{4}$ - $\frac{1}{16}$
10	7 $\frac{3}{8}$	33	9 $\frac{1}{4}$	10	11 $\frac{3}{4}$	34	11	11	4 $\frac{1}{8}$	36	0 $\frac{5}{8}$ - $\frac{1}{16}$
10	7 $\frac{1}{2}$	33	9 $\frac{3}{8}$	10	11 $\frac{7}{8}$	34	11 $\frac{3}{8}$	11	4 $\frac{1}{4}$	36	1 $\frac{1}{8}$
10	7 $\frac{5}{8}$	33	10	11	0	34	11 $\frac{3}{4}$	11	4 $\frac{3}{8}$	36	1 $\frac{1}{2}$
10	7 $\frac{3}{4}$	33	10 $\frac{3}{8}$ - $\frac{1}{16}$	11	0 $\frac{1}{8}$	35	0 $\frac{1}{8}$	11	4 $\frac{1}{2}$	36	1 $\frac{7}{8}$
10	7 $\frac{7}{8}$	33	10 $\frac{3}{4}$ - $\frac{1}{16}$	11	0 $\frac{1}{4}$	35	0 $\frac{1}{2}$ - $\frac{1}{16}$	11	4 $\frac{5}{8}$	36	2 $\frac{1}{4}$ - $\frac{1}{16}$
10	8	33	11 $\frac{1}{8}$ - $\frac{1}{16}$	11	0 $\frac{3}{8}$	35	0 $\frac{7}{8}$ - $\frac{1}{16}$	11	4 $\frac{3}{4}$	36	2 $\frac{5}{8}$ - $\frac{1}{16}$
10	8 $\frac{1}{8}$	33	11 $\frac{1}{2}$ - $\frac{1}{16}$	11	0 $\frac{1}{2}$	35	1 $\frac{1}{4}$ - $\frac{1}{16}$	11	4 $\frac{7}{8}$	36	3- $\frac{1}{16}$
10	8 $\frac{1}{4}$	34	0	11	0 $\frac{5}{8}$	35	1 $\frac{1}{4}$	11	5	36	3 $\frac{1}{2}$
10	8 $\frac{3}{8}$	34	0 $\frac{3}{8}$	11	0 $\frac{3}{4}$	35	2 $\frac{1}{8}$	11	5 $\frac{1}{8}$	36	3 $\frac{7}{8}$
10	8 $\frac{1}{2}$	34	0 $\frac{3}{4}$	11	0 $\frac{7}{8}$	35	2 $\frac{1}{2}$	11	5 $\frac{1}{4}$	36	4 $\frac{1}{4}$
10	8 $\frac{5}{8}$	34	1 $\frac{1}{8}$ - $\frac{1}{16}$	11	1	35	2 $\frac{7}{8}$	11	5 $\frac{3}{8}$	36	4 $\frac{5}{8}$
10	8 $\frac{3}{4}$	34	1 $\frac{1}{2}$ - $\frac{1}{16}$	11	1 $\frac{1}{8}$	35	3 $\frac{1}{4}$ - $\frac{1}{16}$	11	5 $\frac{1}{2}$	36	5
10	8 $\frac{7}{8}$	34	1 $\frac{7}{8}$ - $\frac{1}{16}$	11	1 $\frac{1}{4}$	35	3 $\frac{5}{8}$ - $\frac{1}{16}$	11	5 $\frac{3}{8}$	36	5 $\frac{3}{8}$ - $\frac{1}{16}$
10	9	34	2 $\frac{1}{4}$ - $\frac{1}{16}$	11	1 $\frac{3}{8}$	35	4- $\frac{1}{16}$	11	5 $\frac{3}{4}$	36	5 $\frac{3}{4}$ - $\frac{1}{16}$
10	9 $\frac{1}{8}$	34	2 $\frac{3}{4}$	11	1 $\frac{1}{2}$	35	4 $\frac{1}{2}$	11	5 $\frac{7}{8}$	36	6 $\frac{1}{4}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$   $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	6	36	$6\frac{5}{8}$	11	$10\frac{3}{8}$	37	$8\frac{3}{8}$	12	$2\frac{3}{4}$	38	$10\frac{1}{8}$
11	$6\frac{1}{8}$	36	7	11	$10\frac{1}{2}$	37	$8\frac{3}{4}$	12	$2\frac{7}{8}$	38	$10\frac{1}{2}$
11	$6\frac{1}{4}$	36	$7\frac{3}{8}$	11	$10\frac{5}{8}$	37	$9\frac{1}{8}$	12	3	38	$10\frac{7}{8}$
11	$6\frac{3}{8}$	36	$7\frac{3}{4}-\frac{1}{16}$	11	$10\frac{3}{4}$	37	$9\frac{1}{2}$	12	$3\frac{1}{8}$	38	$11\frac{1}{4}$
11	$6\frac{1}{2}$	36	$8\frac{1}{8}-\frac{1}{16}$	11	$10\frac{7}{8}$	37	$9\frac{7}{8}$	12	$3\frac{1}{4}$	38	$11\frac{5}{8}-\frac{1}{16}$
11	$6\frac{5}{8}$	36	$8\frac{1}{2}-\frac{1}{16}$	11	11	37	$10\frac{1}{4}-\frac{1}{16}$	12	$3\frac{3}{8}$	39	$0-\frac{1}{16}$
11	$6\frac{3}{4}$	36	9	11	$11\frac{1}{8}$	37	$10\frac{3}{4}$	12	$3\frac{1}{2}$	39	$0\frac{3}{8}-\frac{1}{16}$
11	$6\frac{7}{8}$	36	$9\frac{3}{8}$	11	$11\frac{1}{4}$	37	$11\frac{1}{8}$	12	$3\frac{5}{8}$	39	$0\frac{7}{8}$
11	7	36	$9\frac{3}{4}$	11	$11\frac{3}{8}$	37	$11\frac{1}{2}$	12	$3\frac{3}{4}$	39	$1\frac{1}{4}$
11	$7\frac{1}{8}$	36	$10\frac{1}{8}$	11	$11\frac{1}{2}$	37	$11\frac{7}{8}-\frac{1}{16}$	12	$3\frac{7}{8}$	39	$1\frac{5}{8}$
11	$7\frac{1}{4}$	36	$10\frac{1}{2}-\frac{1}{16}$	11	$11\frac{5}{8}$	38	$0\frac{1}{4}-\frac{1}{16}$	12	4	39	2
11	$7\frac{3}{8}$	36	$10\frac{3}{8}-\frac{1}{16}$	11	$11\frac{3}{4}$	38	$0\frac{3}{4}$	12	$4\frac{1}{8}$	39	$2\frac{3}{8}-\frac{1}{16}$
11	$7\frac{1}{2}$	36	$11\frac{1}{4}-\frac{1}{16}$	11	$11\frac{7}{8}$	38	$1\frac{1}{8}$	12	$4\frac{1}{4}$	39	$2\frac{3}{4}-\frac{1}{16}$
11	$7\frac{5}{8}$	36	$11\frac{3}{4}$	12	0	38	$1\frac{1}{2}$	12	$4\frac{3}{8}$	39	$3\frac{1}{4}$
11	$7\frac{3}{4}$	37	$0\frac{1}{8}$	12	$0\frac{1}{8}$	38	$1\frac{7}{8}$	12	$4\frac{1}{2}$	39	$3\frac{3}{8}$
11	$7\frac{7}{8}$	37	$0\frac{1}{2}$	12	$0\frac{1}{4}$	38	$2\frac{1}{4}$	12	$4\frac{5}{8}$	39	4
11	8	37	$0\frac{7}{8}$	12	$0\frac{3}{8}$	38	$2\frac{5}{8}$	12	$4\frac{3}{4}$	39	$4\frac{3}{8}-\frac{1}{16}$
11	$8\frac{1}{8}$	37	$1\frac{1}{4}-\frac{1}{16}$	12	$0\frac{1}{2}$	38	3	12	$4\frac{7}{8}$	39	$4\frac{3}{4}-\frac{1}{16}$
11	$8\frac{1}{4}$	37	$1\frac{5}{8}-\frac{1}{16}$	12	$0\frac{5}{8}$	38	$3\frac{3}{8}$	12	5	39	$5\frac{1}{8}-\frac{1}{16}$
11	$8\frac{3}{8}$	37	$2-\frac{1}{16}$	12	$0\frac{3}{4}$	38	$3\frac{3}{4}-\frac{1}{16}$	12	$5\frac{1}{8}$	39	$5\frac{1}{2}-\frac{1}{16}$
11	$8\frac{1}{2}$	37	$2\frac{3}{8}-\frac{1}{16}$	12	$0\frac{7}{8}$	38	$4\frac{1}{8}-\frac{1}{16}$	12	$5\frac{1}{4}$	39	$5\frac{7}{8}-\frac{1}{16}$
11	$8\frac{5}{8}$	37	$2\frac{7}{8}$	12	1	38	$4\frac{5}{8}$	12	$5\frac{3}{8}$	39	$6\frac{3}{8}$
11	$8\frac{3}{4}$	37	$3\frac{1}{4}$	12	$1\frac{1}{8}$	38	5	12	$5\frac{1}{2}$	39	$6\frac{3}{4}$
11	$8\frac{7}{8}$	37	$3\frac{5}{8}$	12	$1\frac{1}{4}$	38	$5\frac{3}{8}$	12	$5\frac{5}{8}$	39	$7\frac{1}{8}$
11	9	37	$4-\frac{1}{16}$	12	$1\frac{3}{8}$	38	$5\frac{3}{4}-\frac{1}{16}$	12	$5\frac{3}{4}$	39	$7\frac{1}{2}$
11	$9\frac{1}{8}$	37	$4\frac{3}{8}-\frac{1}{16}$	12	$1\frac{1}{2}$	38	$6\frac{1}{4}$	12	$5\frac{7}{8}$	39	$7\frac{7}{8}-\frac{1}{16}$
11	$9\frac{1}{4}$	37	$4\frac{3}{4}-\frac{1}{16}$	12	$1\frac{5}{8}$	38	$6\frac{5}{8}$	12	6	39	$8\frac{1}{4}-\frac{1}{16}$
11	$9\frac{3}{8}$	37	$5\frac{1}{4}$	12	$1\frac{3}{4}$	38	7	12	$6\frac{1}{8}$	39	$8\frac{3}{8}-\frac{1}{16}$
11	$9\frac{1}{2}$	37	$5\frac{5}{8}$	12	$1\frac{7}{8}$	38	$7\frac{3}{8}$	12	$6\frac{1}{4}$	39	$9\frac{1}{8}$
11	$9\frac{5}{8}$	37	6	12	2	38	$7\frac{3}{4}$	12	$6\frac{3}{8}$	39	$9\frac{1}{2}$
11	$9\frac{3}{4}$	37	$6\frac{3}{8}$	12	$2\frac{1}{8}$	38	$8\frac{1}{8}$	12	$6\frac{1}{2}$	39	$9\frac{7}{8}$
11	$9\frac{7}{8}$	37	$6\frac{3}{4}$	12	$2\frac{1}{4}$	38	$8\frac{1}{2}-\frac{1}{16}$	12	$6\frac{5}{8}$	39	$10\frac{1}{4}-\frac{1}{16}$
11	10	37	$7\frac{1}{8}-\frac{1}{16}$	12	$2\frac{3}{8}$	38	$8\frac{7}{8}-\frac{1}{16}$	12	$6\frac{3}{4}$	39	$10\frac{5}{8}-\frac{1}{16}$
11	$10\frac{1}{8}$	37	$7\frac{1}{2}-\frac{1}{16}$	12	$2\frac{1}{2}$	38	$9\frac{1}{4}-\frac{1}{16}$	12	$6\frac{7}{8}$	39	$11-\frac{1}{16}$
11	$10\frac{1}{4}$	37	$7\frac{7}{8}-\frac{1}{16}$	12	$2\frac{5}{8}$	38	$9\frac{3}{4}$	12	7	39	$11\frac{3}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 83

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}-\frac{1}{16}$  INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$7\frac{1}{8}$	39	$11\frac{3}{4}-\frac{1}{16}$	12	$8\frac{7}{8}$	40	$5\frac{1}{4}-\frac{1}{16}$	12	$10\frac{1}{2}$	40	$10\frac{1}{2}$
12	$7\frac{1}{4}$	40	$0\frac{1}{4}$	12	9	40	$5\frac{3}{4}$	12	$10\frac{5}{8}$	40	$10\frac{7}{8}$
12	$7\frac{3}{8}$	40	$0\frac{5}{8}$	12	$9\frac{1}{8}$	40	$6\frac{1}{8}$	12	$10\frac{3}{4}$	40	$11\frac{1}{4}$
12	$7\frac{1}{2}$	40	1	12	$9\frac{1}{4}$	40	$6\frac{1}{2}$	12	$10\frac{7}{8}$	40	$11\frac{5}{8}-\frac{1}{16}$
12	$7\frac{5}{8}$	40	$1\frac{3}{8}-\frac{1}{16}$	12	$9\frac{3}{8}$	40	$6\frac{7}{8}-\frac{1}{16}$	12	11	41	$0\frac{1}{16}$
12	$7\frac{3}{4}$	40	$1\frac{3}{4}-\frac{1}{16}$	12	$9\frac{1}{2}$	40	$7\frac{1}{4}-\frac{1}{16}$	12	$11\frac{1}{8}$	41	$0\frac{3}{8}-\frac{1}{16}$
12	$7\frac{7}{8}$	40	$2\frac{1}{8}-\frac{1}{16}$	12	$9\frac{5}{8}$	40	$7\frac{3}{4}$	12	$11\frac{1}{4}$	41	$0\frac{7}{8}$
12	8	40	$2\frac{1}{2}-\frac{1}{16}$	12	$9\frac{3}{4}$	40	$8\frac{1}{8}$	12	$11\frac{3}{8}$	41	$1\frac{1}{4}$
12	$8\frac{1}{8}$	40	$2\frac{7}{8}-\frac{1}{16}$	12	$9\frac{7}{8}$	40	$8\frac{1}{2}$	12	$11\frac{1}{2}$	41	$1\frac{5}{8}$
12	$8\frac{1}{4}$	40	$3\frac{3}{8}$	12	10	40	$8\frac{7}{8}-\frac{1}{16}$	12	$11\frac{5}{8}$	41	$2\frac{1}{16}$
12	$8\frac{3}{8}$	40	$3\frac{3}{4}-\frac{1}{16}$	12	$10\frac{1}{8}$	40	$9\frac{1}{4}-\frac{1}{16}$	12	$11\frac{3}{4}$	41	$2\frac{3}{8}-\frac{1}{16}$
12	$8\frac{1}{2}$	40	$4\frac{1}{8}-\frac{1}{16}$	12	$10\frac{1}{4}$	40	$9\frac{5}{8}-\frac{1}{16}$	12	$11\frac{7}{8}$	41	$2\frac{7}{8}$
12	$8\frac{5}{8}$	40	$4\frac{1}{2}-\frac{1}{16}$	12	$10\frac{3}{8}$	40	$10-\frac{1}{16}$	13	0	41	$3\frac{1}{4}$
12	$8\frac{3}{4}$	40	$4\frac{7}{8}-\frac{1}{16}$								

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	$7\frac{1}{8}-\frac{1}{16}$	1	2	4	$1\frac{3}{8}-\frac{1}{16}$	1	4	4	$7\frac{3}{4}$
1	$0\frac{1}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$2\frac{1}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$4\frac{1}{8}$	4	$8\frac{1}{8}$
1	$0\frac{1}{4}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$2\frac{1}{4}$	4	$2\frac{1}{4}$	1	$4\frac{1}{4}$	4	$8\frac{1}{2}$
1	$0\frac{3}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$2\frac{3}{8}$	4	$2\frac{5}{8}$	1	$4\frac{3}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$
1	$0\frac{1}{2}$	3	$8\frac{3}{4}$	1	$2\frac{1}{2}$	4	$3\frac{1}{16}$	1	$4\frac{1}{2}$	4	$9\frac{1}{4}-\frac{1}{16}$
1	$0\frac{5}{8}$	3	$9\frac{1}{8}$	1	$2\frac{5}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$4\frac{5}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$
1	$0\frac{3}{4}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$2\frac{3}{4}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$4\frac{3}{4}$	4	$10\frac{1}{16}$
1	$0\frac{7}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$2\frac{7}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$4\frac{7}{8}$	4	$10\frac{1}{2}$
1	1	3	$10\frac{1}{4}-\frac{1}{16}$	1	3	4	$4\frac{1}{2}-\frac{1}{16}$	1	5	4	$10\frac{7}{8}$
1	$1\frac{1}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$3\frac{1}{8}$	4	5	1	$5\frac{1}{8}$	4	$11\frac{1}{4}$
1	$1\frac{1}{4}$	3	$11\frac{1}{16}$	1	$3\frac{1}{4}$	4	$5\frac{3}{8}$	1	$5\frac{1}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$
1	$1\frac{3}{8}$	3	$11\frac{1}{2}$	1	$3\frac{3}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$5\frac{3}{8}$	5	$0\frac{1}{16}$
1	$1\frac{1}{2}$	3	$11\frac{7}{8}$	1	$3\frac{1}{2}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$5\frac{1}{2}$	5	$0\frac{3}{8}-\frac{1}{16}$
1	$1\frac{5}{8}$	4	$0\frac{1}{4}$	1	$3\frac{5}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$5\frac{5}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$
1	$1\frac{3}{4}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$3\frac{3}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$5\frac{3}{4}$	5	$1\frac{1}{4}$
1	$1\frac{7}{8}$	4	$1\frac{1}{16}$	1	$3\frac{7}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$5\frac{7}{8}$	5	$1\frac{5}{8}$

# 84      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	6	5	2	1	10 $\frac{3}{8}$	6	3 $\frac{3}{4}$	2	2 $\frac{3}{4}$	7	5 $\frac{1}{2}$
1	6 $\frac{1}{8}$	5	2 $\frac{3}{8}$ - $\frac{1}{16}$	1	10 $\frac{1}{2}$	6	4 $\frac{1}{8}$	2	2 $\frac{7}{8}$	7	5 $\frac{7}{8}$
1	6 $\frac{1}{4}$	5	2 $\frac{3}{4}$ - $\frac{1}{16}$	1	10 $\frac{5}{8}$	6	4 $\frac{1}{2}$ - $\frac{1}{16}$	2	3	7	6 $\frac{1}{4}$ - $\frac{1}{16}$
1	6 $\frac{3}{8}$	5	3 $\frac{1}{8}$ - $\frac{1}{16}$	1	10 $\frac{3}{4}$	6	4 $\frac{7}{8}$ - $\frac{1}{16}$	2	3 $\frac{1}{8}$	7	6 $\frac{5}{8}$ - $\frac{1}{16}$
1	6 $\frac{1}{2}$	5	3 $\frac{1}{2}$ - $\frac{1}{16}$	1	10 $\frac{7}{8}$	6	5 $\frac{1}{4}$ - $\frac{1}{16}$	2	3 $\frac{1}{4}$	7	7 $\frac{1}{16}$
1	6 $\frac{5}{8}$	5	4	1	11	6	5 $\frac{3}{4}$	2	3 $\frac{3}{8}$	7	7 $\frac{3}{8}$ - $\frac{1}{16}$
1	6 $\frac{3}{4}$	5	4 $\frac{3}{8}$	1	11 $\frac{1}{8}$	6	6 $\frac{1}{8}$	2	3 $\frac{1}{2}$	7	7 $\frac{7}{8}$
1	6 $\frac{7}{8}$	5	4 $\frac{3}{4}$	1	11 $\frac{1}{4}$	6	6 $\frac{1}{2}$	2	3 $\frac{5}{8}$	7	8 $\frac{1}{4}$
1	7	5	5 $\frac{1}{8}$ - $\frac{1}{16}$	1	11 $\frac{3}{8}$	6	6 $\frac{7}{8}$ - $\frac{1}{16}$	2	3 $\frac{3}{4}$	7	8 $\frac{5}{8}$
1	7 $\frac{1}{8}$	5	5 $\frac{1}{2}$ - $\frac{1}{16}$	1	11 $\frac{1}{2}$	6	7 $\frac{1}{4}$ - $\frac{1}{16}$	2	3 $\frac{7}{8}$	7	9 $\frac{1}{16}$
1	7 $\frac{1}{4}$	5	5 $\frac{7}{8}$ - $\frac{1}{16}$	1	11 $\frac{5}{8}$	6	7 $\frac{3}{4}$	2	4	7	9 $\frac{3}{8}$ - $\frac{1}{16}$
1	7 $\frac{3}{8}$	5	6 $\frac{1}{4}$ - $\frac{1}{16}$	1	11 $\frac{3}{4}$	6	8 $\frac{1}{8}$	2	4 $\frac{1}{8}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$
1	7 $\frac{1}{2}$	5	6 $\frac{3}{4}$	1	11 $\frac{7}{8}$	6	8 $\frac{1}{2}$	2	4 $\frac{1}{4}$	7	10 $\frac{1}{4}$
1	7 $\frac{5}{8}$	5	7 $\frac{1}{8}$	2	0	6	8 $\frac{7}{8}$	2	4 $\frac{3}{8}$	7	10 $\frac{5}{8}$
1	7 $\frac{3}{4}$	5	7 $\frac{1}{2}$	2	0 $\frac{1}{8}$	6	9 $\frac{1}{4}$	2	4 $\frac{1}{2}$	7	11
1	7 $\frac{7}{8}$	5	7 $\frac{7}{8}$	2	0 $\frac{1}{4}$	6	9 $\frac{5}{8}$ - $\frac{1}{16}$	2	4 $\frac{5}{8}$	7	11 $\frac{3}{8}$
1	8	5	8 $\frac{1}{4}$ - $\frac{1}{16}$	2	0 $\frac{3}{8}$	6	10 $\frac{1}{16}$	2	4 $\frac{3}{4}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$
1	8 $\frac{1}{8}$	5	8 $\frac{3}{8}$ - $\frac{1}{16}$	2	0 $\frac{1}{2}$	6	10 $\frac{3}{8}$ - $\frac{1}{16}$	2	4 $\frac{7}{8}$	8	0 $\frac{1}{8}$ - $\frac{1}{16}$
1	8 $\frac{1}{4}$	5	9 $\frac{1}{16}$	2	0 $\frac{5}{8}$	6	10 $\frac{3}{4}$ - $\frac{1}{16}$	2	5	8	0 $\frac{1}{2}$ - $\frac{1}{16}$
1	8 $\frac{3}{8}$	5	9 $\frac{1}{2}$	2	0 $\frac{3}{4}$	6	11 $\frac{1}{4}$	2	5 $\frac{1}{8}$	8	1
1	8 $\frac{1}{2}$	5	9 $\frac{7}{8}$	2	0 $\frac{7}{8}$	6	11 $\frac{5}{8}$	2	5 $\frac{1}{4}$	8	1 $\frac{3}{8}$
1	8 $\frac{5}{8}$	5	10 $\frac{1}{4}$	2	1	7	0	2	5 $\frac{3}{8}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$
1	8 $\frac{3}{4}$	5	10 $\frac{5}{8}$	2	1 $\frac{1}{8}$	7	0 $\frac{3}{8}$ - $\frac{1}{16}$	2	5 $\frac{1}{2}$	8	2 $\frac{1}{8}$ - $\frac{1}{16}$
1	8 $\frac{7}{8}$	5	11 $\frac{1}{16}$	2	1 $\frac{1}{4}$	7	0 $\frac{3}{4}$ - $\frac{1}{16}$	2	5 $\frac{5}{8}$	8	2 $\frac{1}{2}$ - $\frac{1}{16}$
1	9	5	11 $\frac{3}{8}$ - $\frac{1}{16}$	2	1 $\frac{3}{8}$	7	1 $\frac{1}{8}$ - $\frac{1}{16}$	2	5 $\frac{3}{4}$	8	3
1	9 $\frac{1}{8}$	5	11 $\frac{3}{4}$ - $\frac{1}{16}$	2	1 $\frac{1}{2}$	7	1 $\frac{1}{2}$ - $\frac{1}{16}$	2	5 $\frac{7}{8}$	8	3 $\frac{3}{8}$
1	9 $\frac{1}{4}$	6	0 $\frac{1}{4}$	2	1 $\frac{5}{8}$	7	2	2	6	8	3 $\frac{3}{4}$
1	9 $\frac{3}{8}$	6	0 $\frac{3}{8}$	2	1 $\frac{3}{4}$	7	2 $\frac{3}{8}$	2	6 $\frac{1}{8}$	8	4 $\frac{1}{8}$
1	9 $\frac{1}{2}$	6	1	2	1 $\frac{7}{8}$	7	2 $\frac{3}{4}$	2	6 $\frac{1}{4}$	8	4 $\frac{1}{2}$
1	9 $\frac{5}{8}$	6	1 $\frac{3}{8}$	2	2	7	3 $\frac{1}{8}$	2	6 $\frac{3}{8}$	8	4 $\frac{7}{8}$
1	9 $\frac{3}{4}$	6	1 $\frac{3}{4}$ - $\frac{1}{16}$	2	2 $\frac{1}{8}$	7	3 $\frac{1}{2}$ - $\frac{1}{16}$	2	6 $\frac{1}{2}$	8	5 $\frac{1}{4}$ - $\frac{1}{16}$
1	9 $\frac{7}{8}$	6	2 $\frac{1}{8}$ - $\frac{1}{16}$	2	2 $\frac{1}{4}$	7	3 $\frac{7}{8}$ - $\frac{1}{16}$	2	6 $\frac{5}{8}$	8	5 $\frac{5}{8}$ - $\frac{1}{16}$
1	10	6	2 $\frac{1}{2}$ - $\frac{1}{16}$	2	2 $\frac{3}{8}$	7	4 $\frac{1}{4}$ - $\frac{1}{16}$	2	6 $\frac{3}{4}$	8	6 $\frac{1}{16}$
1	10 $\frac{1}{8}$	6	3	2	2 $\frac{1}{2}$	7	4 $\frac{3}{4}$	2	6 $\frac{7}{8}$	8	6 $\frac{1}{2}$
1	10 $\frac{1}{4}$	6	3 $\frac{3}{8}$	2	2 $\frac{5}{8}$	7	5 $\frac{1}{8}$	2	7	8	6 $\frac{7}{8}$



DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	$7\frac{1}{8}$	8	$7\frac{1}{4}-\frac{1}{16}$	2	$11\frac{1}{2}$	9	9	3	$3\frac{7}{8}$	10	$10\frac{3}{4}-\frac{1}{16}$
2	$7\frac{1}{4}$	8	$7\frac{5}{8}-\frac{1}{16}$	2	$11\frac{5}{8}$	9	$9\frac{3}{8}$	3	4	10	$11\frac{1}{8}-\frac{1}{16}$
2	$7\frac{3}{8}$	8	$8\frac{1}{16}$	2	$11\frac{3}{4}$	9	$9\frac{3}{4}-\frac{1}{16}$	3	$4\frac{1}{8}$	10	$11\frac{1}{2}-\frac{1}{16}$
2	$7\frac{1}{2}$	8	$8\frac{1}{2}$	2	$11\frac{7}{8}$	9	$10\frac{1}{8}-\frac{1}{16}$	3	$4\frac{1}{4}$	10	$11\frac{7}{8}-\frac{1}{16}$
2	$7\frac{5}{8}$	8	$8\frac{7}{8}$	3	0	9	$10\frac{1}{2}-\frac{1}{16}$	3	$4\frac{3}{8}$	11	$0\frac{1}{4}-\frac{1}{16}$
2	$7\frac{3}{4}$	8	$9\frac{1}{4}$	3	$0\frac{1}{8}$	9	11	3	$4\frac{1}{2}$	11	$0\frac{3}{8}-\frac{1}{16}$
2	$7\frac{7}{8}$	8	$9\frac{5}{8}$	3	$0\frac{1}{4}$	9	$11\frac{3}{8}$	3	$4\frac{5}{8}$	11	$1\frac{1}{16}$
2	8	8	10	3	$0\frac{3}{8}$	9	$11\frac{3}{4}-\frac{1}{16}$	3	$4\frac{3}{4}$	11	$1\frac{1}{2}$
2	$8\frac{1}{8}$	8	$10\frac{3}{8}$	3	$0\frac{1}{2}$	10	$0\frac{1}{8}-\frac{1}{16}$	3	$4\frac{7}{8}$	11	$1\frac{7}{8}$
2	$8\frac{1}{4}$	8	$10\frac{3}{4}-\frac{1}{16}$	3	$0\frac{5}{8}$	10	$0\frac{1}{2}-\frac{1}{16}$	3	5	11	$2\frac{1}{4}-\frac{1}{16}$
2	$8\frac{3}{8}$	8	$11\frac{1}{8}-\frac{1}{16}$	3	$0\frac{3}{4}$	10	1	3	$5\frac{1}{8}$	11	$2\frac{3}{8}-\frac{1}{16}$
2	$8\frac{1}{2}$	8	$11\frac{5}{8}$	3	$0\frac{7}{8}$	10	$1\frac{3}{8}$	3	$5\frac{1}{4}$	11	$3\frac{1}{16}$
2	$8\frac{5}{8}$	9	0	3	1	10	$1\frac{3}{4}$	3	$5\frac{3}{8}$	11	$3\frac{1}{2}$
2	$8\frac{3}{4}$	9	$0\frac{3}{8}$	3	$1\frac{1}{8}$	10	$2\frac{1}{8}$	3	$5\frac{1}{2}$	11	$3\frac{7}{8}$
2	$8\frac{7}{8}$	9	$0\frac{3}{4}-\frac{1}{16}$	3	$1\frac{1}{4}$	10	$2\frac{1}{2}$	3	$5\frac{5}{8}$	11	$4\frac{1}{4}-\frac{1}{16}$
2	9	9	$1\frac{1}{8}-\frac{1}{16}$	3	$1\frac{3}{8}$	10	$2\frac{7}{8}$	3	$5\frac{3}{4}$	11	$4\frac{5}{8}-\frac{1}{16}$
2	$9\frac{1}{8}$	9	$1\frac{5}{8}$	3	$1\frac{1}{2}$	10	$3\frac{1}{4}-\frac{1}{16}$	3	$5\frac{7}{8}$	11	$5\frac{1}{16}$
2	$9\frac{1}{4}$	9	2	3	$1\frac{5}{8}$	10	$3\frac{5}{8}-\frac{1}{16}$	3	6	11	$5\frac{3}{8}-\frac{1}{16}$
2	$9\frac{3}{8}$	9	$2\frac{3}{8}$	3	$1\frac{3}{4}$	10	$4\frac{1}{8}$	3	$6\frac{1}{8}$	11	$5\frac{3}{4}-\frac{1}{16}$
2	$9\frac{1}{2}$	9	$2\frac{3}{4}$	3	$1\frac{7}{8}$	10	$4\frac{1}{2}$	3	$6\frac{1}{4}$	11	$6\frac{1}{8}-\frac{1}{16}$
2	$9\frac{5}{8}$	9	$3\frac{1}{8}$	3	2	10	$4\frac{7}{8}$	3	$6\frac{3}{8}$	11	$6\frac{1}{2}-\frac{1}{16}$
2	$9\frac{3}{4}$	9	$3\frac{1}{2}$	3	$2\frac{1}{8}$	10	$5\frac{1}{4}-\frac{1}{16}$	3	$6\frac{1}{2}$	11	7
2	$9\frac{7}{8}$	9	$3\frac{7}{8}$	3	$2\frac{1}{4}$	10	$5\frac{5}{8}-\frac{1}{16}$	3	$6\frac{5}{8}$	11	$7\frac{3}{8}$
2	10	9	$4\frac{1}{4}-\frac{1}{16}$	3	$2\frac{3}{8}$	10	$6\frac{1}{16}$	3	$6\frac{3}{4}$	11	$7\frac{3}{4}-\frac{1}{16}$
2	$10\frac{1}{8}$	9	$4\frac{5}{8}-\frac{1}{16}$	3	$2\frac{1}{2}$	10	$6\frac{3}{8}-\frac{1}{16}$	3	$6\frac{7}{8}$	11	$8\frac{1}{8}-\frac{1}{16}$
2	$10\frac{1}{4}$	9	$5\frac{1}{16}$	3	$2\frac{3}{8}$	10	$6\frac{3}{4}-\frac{1}{16}$	3	7	11	$8\frac{1}{2}-\frac{1}{16}$
2	$10\frac{3}{8}$	9	$5\frac{1}{2}$	3	$2\frac{3}{4}$	10	$7\frac{1}{8}-\frac{1}{16}$	3	$7\frac{1}{8}$	11	9
2	$10\frac{1}{2}$	9	$5\frac{7}{8}$	3	$2\frac{7}{8}$	10	$7\frac{5}{8}$	3	$7\frac{1}{4}$	11	$9\frac{3}{8}$
2	$10\frac{5}{8}$	9	$6\frac{1}{4}-\frac{1}{16}$	3	3	10	8	3	$7\frac{3}{8}$	11	$9\frac{3}{4}-\frac{1}{16}$
2	$10\frac{3}{4}$	9	$6\frac{5}{8}-\frac{1}{16}$	3	$3\frac{1}{8}$	10	$8\frac{3}{8}$	3	$7\frac{1}{2}$	11	$10\frac{1}{8}-\frac{1}{16}$
2	$10\frac{7}{8}$	9	$7\frac{1}{16}$	3	$3\frac{1}{4}$	10	$8\frac{3}{4}-\frac{1}{16}$	3	$7\frac{5}{8}$	11	$10\frac{1}{2}-\frac{1}{16}$
2	11	9	$7\frac{3}{8}-\frac{1}{16}$	3	$3\frac{3}{8}$	10	$9\frac{1}{8}-\frac{1}{16}$	3	$7\frac{3}{4}$	11	$10\frac{7}{8}-\frac{1}{16}$
2	$11\frac{1}{8}$	9	$7\frac{3}{4}-\frac{1}{16}$	3	$3\frac{1}{2}$	10	$9\frac{5}{8}$	3	$7\frac{7}{8}$	11	$11\frac{1}{4}-\frac{1}{16}$
2	$11\frac{1}{4}$	9	$8\frac{1}{8}-\frac{1}{16}$	3	$3\frac{5}{8}$	10	10	3	8	11	$11\frac{5}{8}-\frac{1}{16}$
2	$11\frac{3}{8}$	9	$8\frac{1}{2}-\frac{1}{16}$	3	$3\frac{3}{4}$	10	$10\frac{3}{8}$	3	$8\frac{1}{8}$	12	$0\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$8\frac{1}{4}$	12	$0\frac{1}{2}$	4	$0\frac{5}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	5	14	4
3	$8\frac{3}{8}$	12	$0\frac{7}{8}$	4	$0\frac{3}{4}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	$5\frac{1}{8}$	14	$4\frac{3}{8}$
3	$8\frac{1}{2}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	$0\frac{7}{8}$	13	$3\frac{1}{16}$	4	$5\frac{1}{4}$	14	$4\frac{3}{4}-\frac{1}{16}$
3	$8\frac{5}{8}$	12	$1\frac{3}{8}-\frac{1}{16}$	4	1	13	$3\frac{3}{8}-\frac{1}{16}$	4	$5\frac{3}{8}$	14	$5\frac{1}{8}-\frac{1}{16}$
3	$8\frac{3}{4}$	12	$2\frac{1}{16}$	4	$1\frac{1}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$	4	$5\frac{1}{2}$	14	$5\frac{1}{2}-\frac{1}{16}$
3	$8\frac{7}{8}$	12	$2\frac{1}{2}$	4	$1\frac{1}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$5\frac{5}{8}$	14	6
3	9	12	$2\frac{7}{8}$	4	$1\frac{3}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	$5\frac{3}{4}$	14	$6\frac{3}{8}$
3	$9\frac{1}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	$1\frac{1}{2}$	13	5	4	$5\frac{7}{8}$	14	$6\frac{3}{4}$
3	$9\frac{1}{4}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$1\frac{5}{8}$	13	$5\frac{3}{8}$	4	6	14	$7\frac{1}{8}$
3	$9\frac{3}{8}$	12	$4\frac{1}{16}$	4	$1\frac{3}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$	4	$6\frac{1}{8}$	14	$7\frac{1}{2}$
3	$9\frac{1}{2}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$1\frac{7}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$	4	$6\frac{1}{4}$	14	$7\frac{7}{8}$
3	$9\frac{5}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	2	13	$6\frac{1}{2}-\frac{1}{16}$	4	$6\frac{3}{8}$	14	$8\frac{1}{4}-\frac{1}{16}$
3	$9\frac{3}{4}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$2\frac{1}{8}$	13	7	4	$6\frac{1}{2}$	14	$8\frac{5}{8}-\frac{1}{16}$
3	$9\frac{7}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	$2\frac{1}{4}$	13	$7\frac{3}{8}$	4	$6\frac{5}{8}$	14	$9\frac{1}{8}$
3	10	12	6	4	$2\frac{3}{8}$	13	$7\frac{3}{4}$	4	$6\frac{3}{4}$	14	$9\frac{1}{2}$
3	$10\frac{1}{8}$	12	$6\frac{3}{8}$	4	$2\frac{1}{2}$	13	$8\frac{1}{8}$	4	$6\frac{7}{8}$	14	$9\frac{7}{8}$
3	$10\frac{1}{4}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$2\frac{5}{8}$	13	$8\frac{1}{2}$	4	7	14	$10\frac{1}{4}$
3	$10\frac{3}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$2\frac{3}{4}$	13	$8\frac{7}{8}$	4	$7\frac{1}{8}$	14	$10\frac{5}{8}-\frac{1}{16}$
3	$10\frac{1}{2}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	$2\frac{7}{8}$	13	$9\frac{1}{4}-\frac{1}{16}$	4	$7\frac{1}{4}$	14	$11\frac{1}{8}$
3	$10\frac{5}{8}$	12	8	4	3	13	$9\frac{5}{8}-\frac{1}{16}$	4	$7\frac{3}{8}$	14	$11\frac{1}{2}$
3	$10\frac{3}{4}$	12	$8\frac{3}{8}$	4	$3\frac{1}{8}$	13	$10-\frac{1}{16}$	4	$7\frac{1}{2}$	14	$11\frac{7}{8}$
3	$10\frac{7}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	$3\frac{1}{4}$	13	$10\frac{1}{2}$	4	$7\frac{5}{8}$	15	$0\frac{1}{4}$
3	11	12	$9\frac{1}{8}-\frac{1}{16}$	4	$3\frac{3}{8}$	13	$10\frac{7}{8}$	4	$7\frac{3}{4}$	15	$0\frac{5}{8}$
3	$11\frac{1}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	$3\frac{1}{2}$	13	$11\frac{1}{4}-\frac{1}{16}$	4	$7\frac{7}{8}$	15	1
3	$11\frac{1}{4}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$3\frac{5}{8}$	13	$11\frac{5}{8}-\frac{1}{16}$	4	8	15	$1\frac{3}{8}$
3	$11\frac{3}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$3\frac{3}{4}$	14	$0\frac{1}{16}$	4	$8\frac{1}{8}$	15	$1\frac{3}{4}-\frac{1}{16}$
3	$11\frac{1}{2}$	12	$10\frac{5}{8}-\frac{1}{16}$	4	$3\frac{7}{8}$	14	$0\frac{1}{2}$	4	$8\frac{1}{4}$	15	$2\frac{1}{8}-\frac{1}{16}$
3	$11\frac{5}{8}$	12	$11\frac{1}{16}$	4	4	14	$0\frac{5}{8}$	4	$8\frac{3}{8}$	15	$2\frac{1}{2}-\frac{1}{16}$
3	$11\frac{3}{4}$	12	$11\frac{1}{2}$	4	$4\frac{1}{8}$	14	$1\frac{1}{4}$	4	$8\frac{1}{2}$	15	3
3	$11\frac{7}{8}$	12	$11\frac{7}{8}$	4	$4\frac{1}{4}$	14	$1\frac{5}{8}$	4	$8\frac{5}{8}$	15	$3\frac{3}{8}$
4	0	13	$0\frac{1}{4}-\frac{1}{16}$	4	$4\frac{3}{8}$	14	2	4	$8\frac{3}{4}$	15	$3\frac{3}{4}-\frac{1}{16}$
4	$0\frac{1}{8}$	13	$0\frac{5}{8}-\frac{1}{16}$	4	$4\frac{1}{2}$	14	$2\frac{3}{8}$	4	$8\frac{7}{8}$	15	$4\frac{1}{8}-\frac{1}{16}$
4	$0\frac{1}{4}$	13	$1\frac{1}{16}$	4	$4\frac{5}{8}$	14	$2\frac{3}{4}-\frac{1}{16}$	4	9	15	$4\frac{1}{2}-\frac{1}{16}$
4	$0\frac{3}{8}$	13	$1\frac{1}{2}$	4	$4\frac{3}{4}$	14	$3\frac{1}{8}-\frac{1}{16}$	4	$9\frac{1}{8}$	15	5
4	$0\frac{1}{2}$	13	$1\frac{7}{8}$	4	$4\frac{7}{8}$	14	$3\frac{1}{2}-\frac{1}{16}$	4	$9\frac{1}{4}$	15	$5\frac{3}{8}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 87

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	$9\frac{3}{8}$	15	$5\frac{3}{4}$	5	$1\frac{3}{4}$	16	$7\frac{1}{2}$	5	$6\frac{1}{8}$	17	$9\frac{1}{4}$
4	$9\frac{1}{2}$	15	$6\frac{1}{8}$	5	$1\frac{7}{8}$	16	$7\frac{7}{8}$	5	$6\frac{1}{4}$	17	$9\frac{5}{8}$
4	$9\frac{5}{8}$	15	$6\frac{1}{2}$	5	2	16	$8\frac{1}{4}-\frac{1}{16}$	5	$6\frac{3}{8}$	17	10
4	$9\frac{3}{4}$	15	$6\frac{7}{8}$	5	$2\frac{1}{8}$	16	$8\frac{5}{8}-\frac{1}{16}$	5	$6\frac{1}{2}$	17	$10\frac{3}{8}$
4	$9\frac{7}{8}$	15	$7\frac{1}{4}-\frac{1}{16}$	5	$2\frac{1}{4}$	16	$9\frac{1}{8}$	5	$6\frac{5}{8}$	17	$10\frac{3}{4}-\frac{1}{16}$
4	10	15	$7\frac{5}{8}-\frac{1}{16}$	5	$2\frac{3}{8}$	16	$9\frac{1}{2}$	5	$6\frac{3}{4}$	17	$11\frac{1}{8}-\frac{1}{16}$
4	$10\frac{1}{8}$	15	$8\frac{1}{8}$	5	$2\frac{1}{2}$	16	$9\frac{7}{8}$	5	$6\frac{7}{8}$	17	$11\frac{1}{2}-\frac{1}{16}$
4	$10\frac{1}{4}$	15	$8\frac{1}{2}$	5	$2\frac{5}{8}$	16	$10\frac{1}{4}$	5	7	18	0
4	$10\frac{3}{8}$	15	$8\frac{7}{8}$	5	$2\frac{3}{4}$	16	$10\frac{5}{8}$	5	$7\frac{1}{8}$	18	$0\frac{3}{8}$
4	$10\frac{1}{2}$	15	$9\frac{1}{4}-\frac{1}{16}$	5	$2\frac{7}{8}$	16	11	5	$7\frac{1}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$
4	$10\frac{5}{8}$	15	$9\frac{5}{8}-\frac{1}{16}$	5	3	16	$11\frac{3}{8}$	5	$7\frac{3}{8}$	18	$1\frac{1}{8}-\frac{1}{16}$
4	$10\frac{3}{4}$	15	$10\frac{1}{16}$	5	$3\frac{1}{8}$	16	$11\frac{3}{4}-\frac{1}{16}$	5	$7\frac{1}{2}$	18	$1\frac{1}{2}-\frac{1}{16}$
4	$10\frac{7}{8}$	15	$10\frac{1}{2}$	5	$3\frac{1}{4}$	17	$0\frac{1}{8}-\frac{1}{16}$	5	$7\frac{5}{8}$	18	$1\frac{7}{8}-\frac{1}{16}$
4	11	15	$10\frac{7}{8}$	5	$3\frac{3}{8}$	17	$0\frac{1}{2}-\frac{1}{16}$	5	$7\frac{3}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$
4	$11\frac{1}{8}$	15	$11\frac{1}{4}$	5	$3\frac{1}{2}$	17	1	5	$7\frac{7}{8}$	18	$2\frac{5}{8}-\frac{1}{16}$
4	$11\frac{1}{4}$	15	$11\frac{5}{8}$	5	$3\frac{5}{8}$	17	$1\frac{3}{8}$	5	8	18	$3\frac{1}{8}$
4	$11\frac{3}{8}$	16	0	5	$3\frac{3}{4}$	17	$1\frac{3}{4}-\frac{1}{16}$	5	$8\frac{1}{8}$	18	$3\frac{1}{2}$
4	$11\frac{1}{2}$	16	$0\frac{3}{8}$	5	$3\frac{7}{8}$	17	$2\frac{1}{8}-\frac{1}{16}$	5	$8\frac{1}{4}$	18	$3\frac{7}{8}$
4	$11\frac{5}{8}$	16	$0\frac{3}{4}-\frac{1}{16}$	5	4	17	$2\frac{1}{2}-\frac{1}{16}$	5	$8\frac{3}{8}$	18	$4\frac{1}{4}-\frac{1}{16}$
4	$11\frac{3}{4}$	16	$1\frac{1}{8}-\frac{1}{16}$	5	$4\frac{1}{8}$	17	3	5	$8\frac{1}{2}$	18	$4\frac{5}{8}-\frac{1}{16}$
4	$11\frac{7}{8}$	16	$1\frac{1}{2}-\frac{1}{16}$	5	$4\frac{1}{4}$	17	$3\frac{3}{8}$	5	$8\frac{5}{8}$	18	$5\frac{1}{8}-\frac{1}{16}$
5	0	16	2	5	$4\frac{3}{8}$	17	$3\frac{3}{4}$	5	$8\frac{3}{4}$	18	$5\frac{1}{2}$
5	$0\frac{1}{8}$	16	$2\frac{3}{8}$	5	$4\frac{1}{2}$	17	$4\frac{1}{8}$	5	$8\frac{7}{8}$	18	$5\frac{7}{8}$
5	$0\frac{1}{4}$	16	$2\frac{3}{4}-\frac{1}{16}$	5	$4\frac{5}{8}$	17	$4\frac{1}{2}$	5	9	18	$6\frac{1}{4}-\frac{1}{16}$
5	$0\frac{3}{8}$	16	$3\frac{1}{8}-\frac{1}{16}$	5	$4\frac{3}{4}$	17	$4\frac{7}{8}$	5	$9\frac{1}{8}$	18	$6\frac{5}{8}-\frac{1}{16}$
5	$0\frac{1}{2}$	16	$3\frac{1}{2}-\frac{1}{16}$	5	$4\frac{7}{8}$	17	$5\frac{1}{4}$	5	$9\frac{1}{4}$	18	$7\frac{1}{16}$
5	$0\frac{5}{8}$	16	4	5	5	17	$5\frac{5}{8}-\frac{1}{16}$	5	$9\frac{3}{8}$	18	$7\frac{3}{8}-\frac{1}{16}$
5	$0\frac{3}{4}$	16	$4\frac{3}{8}$	5	$5\frac{1}{8}$	17	$6\frac{1}{8}$	5	$9\frac{1}{2}$	18	$7\frac{3}{4}-\frac{1}{16}$
5	$0\frac{7}{8}$	16	$4\frac{3}{4}$	5	$5\frac{1}{4}$	17	$6\frac{1}{2}$	5	$9\frac{5}{8}$	18	$8\frac{1}{8}-\frac{1}{16}$
5	1	16	$5\frac{1}{8}$	5	$5\frac{3}{8}$	17	$6\frac{7}{8}$	5	$9\frac{3}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$
5	$1\frac{1}{8}$	16	$5\frac{1}{2}$	5	$5\frac{1}{2}$	17	$7\frac{1}{4}$	5	$9\frac{7}{8}$	18	9
5	$1\frac{1}{4}$	16	$5\frac{7}{8}$	5	$5\frac{5}{8}$	17	$7\frac{5}{8}-\frac{1}{16}$	5	10	18	$9\frac{3}{8}$
5	$1\frac{3}{8}$	16	$6\frac{1}{4}-\frac{1}{16}$	5	$5\frac{3}{4}$	17	$8\frac{1}{8}$	5	$10\frac{1}{8}$	18	$9\frac{3}{4}-\frac{1}{16}$
5	$1\frac{1}{2}$	16	$6\frac{5}{8}-\frac{1}{16}$	5	$5\frac{7}{8}$	17	$8\frac{1}{2}$	5	$10\frac{1}{4}$	18	$10\frac{1}{8}-\frac{1}{16}$
5	$1\frac{5}{8}$	16	$7\frac{1}{8}$	5	6	17	$8\frac{7}{8}$	5	$10\frac{3}{8}$	18	$10\frac{1}{2}-\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	10 $\frac{1}{2}$	18	11	6	27 $\frac{7}{8}$	20	0 $\frac{5}{8}$ - $\frac{1}{16}$	6	7 $\frac{1}{4}$	21	2 $\frac{1}{2}$
5	10 $\frac{3}{8}$	18	11 $\frac{3}{8}$	6	3	20	1 $\frac{1}{8}$	6	7 $\frac{3}{8}$	21	2 $\frac{7}{8}$
5	10 $\frac{3}{4}$	18	11 $\frac{3}{4}$ - $\frac{1}{16}$	6	3 $\frac{1}{8}$	20	1 $\frac{1}{2}$	6	7 $\frac{1}{2}$	21	3 $\frac{1}{4}$
5	10 $\frac{7}{8}$	19	0 $\frac{1}{8}$ - $\frac{1}{16}$	6	3 $\frac{1}{4}$	20	1 $\frac{7}{8}$	6	7 $\frac{5}{8}$	21	3 $\frac{5}{8}$
5	11	19	0 $\frac{1}{2}$ - $\frac{1}{16}$	6	3 $\frac{3}{8}$	20	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{3}{4}$	21	4
5	11 $\frac{1}{8}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$	6	3 $\frac{1}{2}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	7 $\frac{7}{8}$	21	4 $\frac{3}{8}$
5	11 $\frac{1}{4}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	3 $\frac{5}{8}$	20	3 $\frac{1}{8}$	6	8	21	4 $\frac{3}{4}$ - $\frac{1}{16}$
5	11 $\frac{3}{8}$	19	1 $\frac{3}{8}$ - $\frac{1}{16}$	6	3 $\frac{3}{4}$	20	3 $\frac{1}{2}$	6	8 $\frac{1}{8}$	21	5 $\frac{1}{8}$ - $\frac{1}{16}$
5	11 $\frac{1}{2}$	19	2 $\frac{1}{8}$	6	3 $\frac{7}{8}$	20	3 $\frac{7}{8}$	6	8 $\frac{1}{4}$	21	5 $\frac{1}{2}$ - $\frac{1}{16}$
5	11 $\frac{5}{8}$	19	2 $\frac{1}{2}$	6	4	20	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{3}{8}$	21	6
5	11 $\frac{3}{4}$	19	2 $\frac{7}{8}$	6	4 $\frac{1}{8}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	8 $\frac{1}{2}$	21	6 $\frac{3}{8}$
5	11 $\frac{7}{8}$	19	3 $\frac{1}{4}$ - $\frac{1}{16}$	6	4 $\frac{1}{4}$	20	5 $\frac{1}{16}$	6	8 $\frac{5}{8}$	21	6 $\frac{3}{4}$ - $\frac{1}{16}$
6	0	19	3 $\frac{3}{8}$ - $\frac{1}{16}$	6	4 $\frac{3}{8}$	20	5 $\frac{3}{8}$ - $\frac{1}{16}$	6	8 $\frac{3}{4}$	21	7 $\frac{1}{8}$ - $\frac{1}{16}$
6	0 $\frac{1}{8}$	19	4 $\frac{1}{8}$	6	4 $\frac{1}{2}$	20	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{7}{8}$	21	7 $\frac{1}{2}$ - $\frac{1}{16}$
6	0 $\frac{1}{4}$	19	4 $\frac{1}{2}$	6	4 $\frac{3}{8}$	20	6 $\frac{1}{8}$ - $\frac{1}{16}$	6	9	21	8
6	0 $\frac{3}{8}$	19	4 $\frac{7}{8}$	6	4 $\frac{3}{4}$	20	6 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{1}{8}$	21	8 $\frac{3}{8}$
6	0 $\frac{1}{2}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	4 $\frac{7}{8}$	20	7	6	9 $\frac{1}{4}$	21	8 $\frac{3}{4}$
6	0 $\frac{5}{8}$	19	5 $\frac{3}{8}$ - $\frac{1}{16}$	6	5	20	7 $\frac{3}{8}$	6	9 $\frac{3}{8}$	21	9 $\frac{1}{8}$
6	0 $\frac{3}{4}$	19	6 $\frac{1}{16}$	6	5 $\frac{1}{8}$	20	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	9 $\frac{1}{2}$	21	9 $\frac{1}{2}$
6	0 $\frac{7}{8}$	19	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{4}$	20	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{5}{8}$	21	9 $\frac{7}{8}$
6	1	19	6 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{3}{8}$	20	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{3}{4}$	21	10 $\frac{1}{4}$ - $\frac{1}{16}$
6	1 $\frac{1}{8}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{2}$	20	9	6	9 $\frac{7}{8}$	21	10 $\frac{3}{8}$ - $\frac{1}{16}$
6	1 $\frac{1}{4}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{5}{8}$	20	9 $\frac{3}{8}$	6	10	21	11 $\frac{1}{8}$
6	1 $\frac{3}{8}$	19	8	6	5 $\frac{3}{4}$	20	9 $\frac{3}{4}$	6	10 $\frac{1}{8}$	21	11 $\frac{1}{2}$
6	1 $\frac{1}{2}$	19	8 $\frac{3}{8}$	6	5 $\frac{7}{8}$	20	10 $\frac{1}{8}$	6	10 $\frac{1}{4}$	21	11 $\frac{7}{8}$
6	1 $\frac{5}{8}$	19	8 $\frac{3}{4}$ - $\frac{1}{16}$	6	6	20	10 $\frac{1}{2}$	6	10 $\frac{3}{8}$	22	0 $\frac{1}{4}$ - $\frac{1}{16}$
6	1 $\frac{3}{4}$	19	9 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{1}{8}$	20	10 $\frac{7}{8}$	6	10 $\frac{1}{2}$	22	0 $\frac{3}{8}$ - $\frac{1}{16}$
6	1 $\frac{7}{8}$	19	9 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{1}{4}$	20	11 $\frac{1}{4}$ - $\frac{1}{16}$	6	10 $\frac{5}{8}$	22	1 $\frac{1}{8}$
6	2	19	10	6	6 $\frac{3}{8}$	20	11 $\frac{5}{8}$ - $\frac{1}{16}$	6	10 $\frac{3}{4}$	22	1 $\frac{1}{2}$
6	2 $\frac{1}{8}$	19	10 $\frac{3}{8}$	6	6 $\frac{1}{2}$	21	0 $\frac{1}{8}$	6	10 $\frac{7}{8}$	22	1 $\frac{7}{8}$
6	2 $\frac{1}{4}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{5}{8}$	21	0 $\frac{1}{2}$	6	11	22	2 $\frac{1}{4}$
6	2 $\frac{3}{8}$	19	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{3}{4}$	21	0 $\frac{7}{8}$	6	11 $\frac{1}{8}$	22	2 $\frac{5}{8}$
6	2 $\frac{1}{2}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{7}{8}$	21	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	11 $\frac{1}{4}$	22	3
6	2 $\frac{5}{8}$	19	11 $\frac{7}{8}$ - $\frac{1}{16}$	6	7	21	1 $\frac{5}{8}$ - $\frac{1}{16}$	6	11 $\frac{3}{8}$	22	3 $\frac{3}{8}$
6	2 $\frac{3}{4}$	20	0 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{1}{8}$	21	2 $\frac{1}{8}$	6	11 $\frac{1}{2}$	22	3 $\frac{3}{4}$ - $\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 89

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	11 $\frac{5}{8}$	22	4 $\frac{1}{8}$ - $\frac{1}{16}$	7	4	23	6	7	8 $\frac{3}{8}$	24	7 $\frac{5}{8}$ - $\frac{1}{16}$
6	11 $\frac{3}{4}$	22	4 $\frac{1}{2}$ - $\frac{1}{16}$	7	4 $\frac{1}{8}$	23	6 $\frac{3}{8}$	7	8 $\frac{1}{2}$	24	8 $\frac{1}{8}$
6	11 $\frac{7}{8}$	22	5	7	4 $\frac{1}{4}$	23	6 $\frac{3}{4}$	7	8 $\frac{5}{8}$	24	8 $\frac{1}{2}$
7	0	22	5 $\frac{3}{8}$	7	4 $\frac{3}{8}$	23	7 $\frac{1}{8}$	7	8 $\frac{3}{4}$	24	8 $\frac{7}{8}$
7	0 $\frac{1}{8}$	22	5 $\frac{3}{4}$ - $\frac{1}{16}$	7	4 $\frac{1}{2}$	23	7 $\frac{1}{2}$	7	8 $\frac{7}{8}$	24	9 $\frac{1}{4}$ - $\frac{1}{16}$
7	0 $\frac{1}{4}$	22	6 $\frac{1}{8}$ - $\frac{1}{16}$	7	4 $\frac{5}{8}$	23	7 $\frac{7}{8}$	7	9	24	9 $\frac{5}{8}$ - $\frac{1}{16}$
7	0 $\frac{3}{8}$	22	6 $\frac{1}{2}$ - $\frac{1}{16}$	7	4 $\frac{3}{4}$	23	8 $\frac{1}{4}$ - $\frac{1}{16}$	7	9 $\frac{1}{8}$	24	10 $\frac{1}{16}$
7	0 $\frac{1}{2}$	22	7	7	4 $\frac{7}{8}$	23	8 $\frac{5}{8}$ - $\frac{1}{16}$	7	9 $\frac{1}{4}$	24	10 $\frac{3}{8}$ - $\frac{1}{16}$
7	0 $\frac{5}{8}$	22	7 $\frac{3}{8}$	7	5	23	9 $\frac{1}{16}$	7	9 $\frac{3}{8}$	24	10 $\frac{3}{4}$ - $\frac{1}{16}$
7	0 $\frac{3}{4}$	22	7 $\frac{3}{4}$	7	5 $\frac{1}{8}$	23	9 $\frac{1}{2}$	7	9 $\frac{1}{2}$	24	11 $\frac{1}{8}$ - $\frac{1}{16}$
7	0 $\frac{7}{8}$	22	8 $\frac{1}{8}$	7	5 $\frac{1}{4}$	23	9 $\frac{7}{8}$	7	9 $\frac{5}{8}$	24	11 $\frac{1}{2}$ - $\frac{1}{16}$
7	1	22	8 $\frac{1}{2}$	7	5 $\frac{3}{8}$	23	10 $\frac{1}{4}$ - $\frac{1}{16}$	7	9 $\frac{3}{4}$	25	0
7	1 $\frac{1}{8}$	22	8 $\frac{7}{8}$	7	5 $\frac{1}{2}$	23	10 $\frac{5}{8}$ - $\frac{1}{16}$	7	9 $\frac{7}{8}$	25	0 $\frac{3}{8}$
7	1 $\frac{1}{4}$	22	9 $\frac{1}{4}$ - $\frac{1}{16}$	7	5 $\frac{5}{8}$	23	11 $\frac{1}{16}$	7	10	25	0 $\frac{3}{4}$ - $\frac{1}{16}$
7	1 $\frac{3}{8}$	22	9 $\frac{5}{8}$ - $\frac{1}{16}$	7	5 $\frac{3}{4}$	23	11 $\frac{3}{8}$ - $\frac{1}{16}$	7	10 $\frac{1}{8}$	25	1 $\frac{1}{8}$ - $\frac{1}{16}$
7	1 $\frac{1}{2}$	22	10 $\frac{1}{8}$	7	5 $\frac{7}{8}$	23	11 $\frac{3}{4}$ - $\frac{1}{16}$	7	10 $\frac{1}{4}$	25	1 $\frac{1}{2}$ - $\frac{1}{16}$
7	1 $\frac{5}{8}$	22	10 $\frac{1}{2}$	7	6	24	0 $\frac{1}{8}$ - $\frac{1}{16}$	7	10 $\frac{3}{8}$	25	2
7	1 $\frac{3}{4}$	22	10 $\frac{7}{8}$	7	6 $\frac{1}{8}$	24	0 $\frac{1}{2}$ - $\frac{1}{16}$	7	10 $\frac{1}{2}$	25	2 $\frac{3}{8}$
7	1 $\frac{7}{8}$	22	11 $\frac{1}{4}$ - $\frac{1}{16}$	7	6 $\frac{1}{4}$	24	1	7	10 $\frac{5}{8}$	25	2 $\frac{3}{4}$ - $\frac{1}{16}$
7	2	22	11 $\frac{3}{8}$ - $\frac{1}{16}$	7	6 $\frac{3}{8}$	24	1 $\frac{3}{8}$	7	10 $\frac{3}{4}$	25	3 $\frac{1}{8}$ - $\frac{1}{16}$
7	2 $\frac{1}{8}$	23	0 $\frac{1}{8}$	7	6 $\frac{1}{2}$	24	1 $\frac{3}{4}$ - $\frac{1}{16}$	7	10 $\frac{7}{8}$	25	3 $\frac{1}{2}$ - $\frac{1}{16}$
7	2 $\frac{1}{4}$	23	0 $\frac{1}{2}$	7	6 $\frac{3}{8}$	24	2 $\frac{1}{8}$ - $\frac{1}{16}$	7	11	25	3 $\frac{7}{8}$ - $\frac{1}{16}$
7	2 $\frac{3}{8}$	23	0 $\frac{7}{8}$	7	6 $\frac{3}{4}$	24	2 $\frac{1}{2}$ - $\frac{1}{16}$	7	11 $\frac{1}{8}$	25	4 $\frac{1}{4}$ - $\frac{1}{16}$
7	2 $\frac{1}{2}$	23	1 $\frac{1}{4}$	7	6 $\frac{7}{8}$	24	3	7	11 $\frac{1}{4}$	25	4 $\frac{5}{8}$ - $\frac{1}{16}$
7	2 $\frac{5}{8}$	23	1 $\frac{5}{8}$	7	7	24	3 $\frac{3}{8}$	7	11 $\frac{3}{8}$	25	5 $\frac{1}{8}$
7	2 $\frac{3}{4}$	23	2	7	7 $\frac{1}{8}$	24	3 $\frac{3}{4}$ - $\frac{1}{16}$	7	11 $\frac{1}{2}$	25	5 $\frac{1}{2}$
7	2 $\frac{7}{8}$	23	2 $\frac{3}{8}$	7	7 $\frac{1}{4}$	24	4 $\frac{1}{8}$ - $\frac{1}{16}$	7	11 $\frac{5}{8}$	25	5 $\frac{7}{8}$
7	3	23	2 $\frac{3}{4}$ - $\frac{1}{16}$	7	7 $\frac{3}{8}$	24	4 $\frac{1}{2}$ - $\frac{1}{16}$	7	11 $\frac{3}{4}$	25	6 $\frac{1}{4}$ - $\frac{1}{16}$
7	3 $\frac{1}{8}$	23	3 $\frac{1}{8}$ - $\frac{1}{16}$	7	7 $\frac{1}{2}$	24	5	7	11 $\frac{7}{8}$	25	6 $\frac{5}{8}$ - $\frac{1}{16}$
7	3 $\frac{1}{4}$	23	3 $\frac{1}{2}$ - $\frac{1}{16}$	7	7 $\frac{5}{8}$	24	5 $\frac{3}{8}$	8	0	25	7 $\frac{1}{8}$
7	3 $\frac{3}{8}$	23	4	7	7 $\frac{3}{4}$	24	5 $\frac{3}{4}$	8	0 $\frac{1}{8}$	25	7 $\frac{1}{2}$
7	3 $\frac{1}{2}$	23	4 $\frac{3}{8}$	7	7 $\frac{7}{8}$	24	6 $\frac{1}{8}$	8	0 $\frac{1}{4}$	25	7 $\frac{7}{8}$
7	3 $\frac{5}{8}$	23	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	8	24	6 $\frac{1}{2}$	8	0 $\frac{3}{8}$	25	8 $\frac{1}{4}$ - $\frac{1}{16}$
7	3 $\frac{3}{4}$	23	5 $\frac{1}{8}$ - $\frac{1}{16}$	7	8 $\frac{1}{8}$	24	6 $\frac{7}{8}$	8	0 $\frac{1}{2}$	25	8 $\frac{5}{8}$ - $\frac{1}{16}$
7	3 $\frac{7}{8}$	23	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	8 $\frac{1}{4}$	24	7 $\frac{1}{4}$ - $\frac{1}{16}$	8	0 $\frac{5}{8}$	25	9 $\frac{1}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$0\frac{3}{4}$	25	$9\frac{3}{8}-\frac{1}{16}$	8	$5\frac{1}{8}$	26	$11\frac{1}{8}-\frac{1}{16}$	8	$9\frac{1}{2}$	28	$0\frac{7}{8}$
8	$0\frac{7}{8}$	25	$9\frac{3}{4}-\frac{1}{16}$	8	$5\frac{1}{4}$	26	$11\frac{1}{2}-\frac{1}{16}$	8	$9\frac{3}{8}$	28	$1\frac{1}{4}-\frac{1}{16}$
8	1	25	$10\frac{1}{8}-\frac{1}{16}$	8	$5\frac{3}{8}$	26	$11\frac{7}{8}-\frac{1}{16}$	8	$9\frac{3}{4}$	28	$1\frac{5}{8}-\frac{1}{16}$
8	$1\frac{1}{8}$	25	$10\frac{1}{2}-\frac{1}{16}$	8	$5\frac{1}{2}$	27	$0\frac{1}{4}-\frac{1}{16}$	8	$9\frac{7}{8}$	28	$2\frac{1}{16}$
8	$1\frac{1}{4}$	25	11	8	$5\frac{5}{8}$	27	$0\frac{5}{8}-\frac{1}{16}$	8	10	28	$2\frac{1}{2}$
8	$1\frac{3}{8}$	25	$11\frac{3}{8}$	8	$5\frac{3}{4}$	27	$1\frac{1}{16}$	8	$10\frac{1}{8}$	28	$2\frac{7}{8}$
8	$1\frac{1}{2}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$5\frac{7}{8}$	27	$1\frac{1}{2}$	8	$10\frac{1}{4}$	28	$3\frac{1}{4}$
8	$1\frac{5}{8}$	26	$0\frac{3}{8}-\frac{1}{16}$	8	6	27	$1\frac{7}{8}-\frac{1}{16}$	8	$10\frac{3}{8}$	28	$3\frac{5}{8}$
8	$1\frac{3}{4}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	$6\frac{1}{8}$	27	$2\frac{1}{4}-\frac{1}{16}$	8	$10\frac{1}{2}$	28	4
8	$1\frac{7}{8}$	26	1	8	$6\frac{1}{4}$	27	$2\frac{5}{8}-\frac{1}{16}$	8	$10\frac{5}{8}$	28	$4\frac{3}{8}-\frac{1}{16}$
8	2	26	$1\frac{3}{8}$	8	$6\frac{3}{8}$	27	$3\frac{1}{16}$	8	$10\frac{3}{4}$	28	$4\frac{7}{8}$
8	$2\frac{1}{8}$	26	$1\frac{3}{4}-\frac{1}{16}$	8	$6\frac{1}{2}$	27	$3\frac{1}{2}$	8	$10\frac{7}{8}$	28	$5\frac{1}{4}$
8	$2\frac{1}{4}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$6\frac{5}{8}$	27	$3\frac{7}{8}$	8	11	28	$5\frac{5}{8}$
8	$2\frac{3}{8}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	$6\frac{3}{4}$	27	$4\frac{1}{4}$	8	$11\frac{1}{8}$	28	6
8	$2\frac{1}{2}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$6\frac{7}{8}$	27	$4\frac{5}{8}-\frac{1}{16}$	8	$11\frac{1}{4}$	28	$6\frac{3}{8}$
8	$2\frac{5}{8}$	26	$3\frac{1}{4}-\frac{1}{16}$	8	7	27	$5\frac{1}{16}$	8	$11\frac{3}{8}$	28	$6\frac{3}{4}-\frac{1}{16}$
8	$2\frac{3}{4}$	26	$3\frac{5}{8}-\frac{1}{16}$	8	$7\frac{1}{8}$	27	$5\frac{3}{8}-\frac{1}{16}$	8	$11\frac{1}{2}$	28	$7\frac{1}{8}-\frac{1}{16}$
8	$2\frac{7}{8}$	26	$4\frac{1}{8}$	8	$7\frac{1}{4}$	27	$5\frac{3}{4}-\frac{1}{16}$	8	$11\frac{5}{8}$	28	$7\frac{1}{2}-\frac{1}{16}$
8	3	26	$4\frac{1}{2}$	8	$7\frac{3}{8}$	27	$6\frac{1}{4}$	8	$11\frac{3}{4}$	28	8
8	$3\frac{1}{8}$	26	$4\frac{7}{8}$	8	$7\frac{1}{2}$	27	$6\frac{5}{8}$	8	$11\frac{7}{8}$	28	$8\frac{3}{8}$
8	$3\frac{1}{4}$	26	$5\frac{1}{4}-\frac{1}{16}$	8	$7\frac{5}{8}$	27	7	9	0	28	$8\frac{3}{4}$
8	$3\frac{3}{8}$	26	$5\frac{5}{8}-\frac{1}{16}$	8	$7\frac{3}{4}$	27	$7\frac{3}{8}-\frac{1}{16}$	9	$0\frac{1}{8}$	28	$9\frac{1}{8}$
8	$3\frac{1}{2}$	26	$6\frac{1}{16}$	8	$7\frac{7}{8}$	27	$7\frac{3}{4}-\frac{1}{16}$	9	$0\frac{1}{4}$	28	$9\frac{1}{2}$
8	$3\frac{5}{8}$	26	$6\frac{3}{8}-\frac{1}{16}$	8	8	27	$8\frac{1}{8}-\frac{1}{16}$	9	$0\frac{3}{8}$	28	$9\frac{7}{8}-\frac{1}{16}$
8	$3\frac{3}{4}$	26	$6\frac{3}{4}-\frac{1}{16}$	8	$8\frac{1}{8}$	27	$8\frac{1}{2}-\frac{1}{16}$	9	$0\frac{1}{2}$	28	$10\frac{1}{4}-\frac{1}{16}$
8	$3\frac{7}{8}$	26	$7\frac{1}{4}$	8	$8\frac{1}{4}$	27	9	9	$0\frac{5}{8}$	28	$10\frac{3}{4}$
8	4	26	$7\frac{5}{8}$	8	$8\frac{3}{8}$	27	$9\frac{3}{8}$	9	$0\frac{3}{4}$	28	$11\frac{1}{8}$
8	$4\frac{1}{8}$	26	8	8	$8\frac{1}{2}$	27	$9\frac{3}{4}$	9	$0\frac{7}{8}$	28	$11\frac{1}{2}$
8	$4\frac{1}{4}$	26	$8\frac{3}{8}-\frac{1}{16}$	8	$8\frac{5}{8}$	27	$10\frac{1}{8}$	9	1	28	$11\frac{7}{8}$
8	$4\frac{3}{8}$	26	$8\frac{3}{4}-\frac{1}{16}$	8	$8\frac{3}{4}$	27	$10\frac{1}{2}$	9	$1\frac{1}{8}$	29	$0\frac{1}{4}-\frac{1}{16}$
8	$4\frac{1}{2}$	26	$9\frac{1}{8}-\frac{1}{16}$	8	$8\frac{7}{8}$	27	$10\frac{7}{8}-\frac{1}{16}$	9	$1\frac{1}{4}$	29	$0\frac{5}{8}-\frac{1}{16}$
8	$4\frac{5}{8}$	26	$9\frac{1}{2}-\frac{1}{16}$	8	9	27	$11\frac{1}{4}-\frac{1}{16}$	9	$1\frac{3}{8}$	29	$1\frac{1}{16}$
8	$4\frac{3}{4}$	26	10	8	$9\frac{1}{8}$	27	$11\frac{3}{4}$	9	$1\frac{1}{2}$	29	$1\frac{1}{2}$
8	$4\frac{7}{8}$	26	$10\frac{3}{8}$	8	$9\frac{1}{4}$	28	$0\frac{1}{8}$	9	$1\frac{5}{8}$	29	$1\frac{7}{8}$
8	5	26	$10\frac{3}{4}$	8	$9\frac{3}{8}$	28	$0\frac{1}{2}$	9	$1\frac{3}{4}$	29	$2\frac{1}{4}$

# ANGLE-IRON RINGS (FLANGE OUTSIDE). 91

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	1 $\frac{7}{8}$	29	2 $\frac{5}{8}$	9	6 $\frac{1}{4}$	30	4 $\frac{3}{8}$	9	10 $\frac{5}{8}$	31	6 $\frac{1}{8}$
9	2	29	3	9	6 $\frac{3}{8}$	30	4 $\frac{3}{4}$	9	10 $\frac{3}{4}$	31	6 $\frac{1}{2}$
9	2 $\frac{1}{8}$	29	3 $\frac{3}{8}$ - $\frac{1}{16}$	9	6 $\frac{1}{2}$	30	5 $\frac{1}{8}$ - $\frac{1}{16}$	9	10 $\frac{7}{8}$	31	6 $\frac{7}{8}$
9	2 $\frac{1}{4}$	29	3 $\frac{3}{4}$ - $\frac{1}{16}$	9	6 $\frac{5}{8}$	30	5 $\frac{1}{2}$ - $\frac{1}{16}$	9	11	31	7 $\frac{1}{4}$ - $\frac{1}{16}$
9	2 $\frac{3}{8}$	29	4 $\frac{1}{4}$	9	6 $\frac{3}{4}$	30	6	9	11 $\frac{1}{8}$	31	7 $\frac{5}{8}$ - $\frac{1}{16}$
9	2 $\frac{1}{2}$	29	4 $\frac{5}{8}$	9	6 $\frac{7}{8}$	30	6 $\frac{3}{8}$	9	11 $\frac{1}{4}$	31	8 $\frac{1}{8}$
9	2 $\frac{5}{8}$	29	5	9	7	30	6 $\frac{3}{4}$	9	11 $\frac{3}{8}$	31	8 $\frac{1}{2}$
9	2 $\frac{3}{4}$	29	5 $\frac{3}{8}$	9	7 $\frac{1}{8}$	30	7 $\frac{1}{8}$	9	11 $\frac{1}{2}$	31	8 $\frac{7}{8}$
9	2 $\frac{7}{8}$	29	5 $\frac{3}{4}$ - $\frac{1}{16}$	9	7 $\frac{1}{4}$	30	7 $\frac{1}{2}$	9	11 $\frac{5}{8}$	31	9 $\frac{1}{4}$
9	3	29	6 $\frac{1}{8}$ - $\frac{1}{16}$	9	7 $\frac{3}{8}$	30	7 $\frac{7}{8}$ - $\frac{1}{16}$	9	11 $\frac{3}{4}$	31	9 $\frac{5}{8}$ - $\frac{1}{16}$
9	3 $\frac{1}{8}$	29	6 $\frac{1}{2}$ - $\frac{1}{16}$	9	7 $\frac{1}{2}$	30	8 $\frac{1}{4}$ - $\frac{1}{16}$	9	11 $\frac{7}{8}$	31	10 $\frac{1}{16}$
9	3 $\frac{1}{4}$	29	7	9	7 $\frac{5}{8}$	30	8 $\frac{3}{4}$	10	0	31	10 $\frac{3}{8}$ - $\frac{1}{16}$
9	3 $\frac{3}{8}$	29	7 $\frac{3}{8}$	9	7 $\frac{3}{4}$	30	9 $\frac{1}{8}$	10	0 $\frac{1}{8}$	31	10 $\frac{7}{8}$
9	3 $\frac{1}{2}$	29	7 $\frac{3}{4}$	9	7 $\frac{7}{8}$	30	9 $\frac{1}{2}$	10	0 $\frac{1}{4}$	31	11 $\frac{1}{4}$
9	3 $\frac{5}{8}$	29	8 $\frac{1}{8}$	9	8	30	9 $\frac{7}{8}$	10	0 $\frac{3}{8}$	31	11 $\frac{5}{8}$
9	3 $\frac{3}{4}$	29	8 $\frac{1}{2}$ - $\frac{1}{16}$	9	8 $\frac{1}{8}$	30	10 $\frac{1}{4}$	10	0 $\frac{1}{2}$	32	0
9	3 $\frac{7}{8}$	29	8 $\frac{7}{8}$ - $\frac{1}{16}$	9	8 $\frac{1}{4}$	30	10 $\frac{5}{8}$ - $\frac{1}{16}$	10	0 $\frac{5}{8}$	32	0 $\frac{3}{8}$ - $\frac{1}{16}$
9	4	29	9 $\frac{1}{4}$ - $\frac{1}{16}$	9	8 $\frac{3}{8}$	30	11 $\frac{1}{16}$	10	0 $\frac{3}{4}$	32	0 $\frac{3}{4}$ - $\frac{1}{16}$
9	4 $\frac{1}{8}$	29	9 $\frac{3}{4}$	9	8 $\frac{1}{2}$	30	11 $\frac{3}{8}$ - $\frac{1}{16}$	10	0 $\frac{7}{8}$	32	1 $\frac{1}{8}$ - $\frac{1}{16}$
9	4 $\frac{1}{4}$	29	10 $\frac{1}{8}$	9	8 $\frac{5}{8}$	30	11 $\frac{3}{4}$ - $\frac{1}{16}$	10	1	32	1 $\frac{5}{8}$
9	4 $\frac{3}{8}$	29	10 $\frac{1}{2}$	9	8 $\frac{3}{4}$	31	0 $\frac{1}{4}$	10	1 $\frac{1}{8}$	32	2
9	4 $\frac{1}{2}$	29	10 $\frac{7}{8}$	9	8 $\frac{7}{8}$	31	0 $\frac{5}{8}$	10	1 $\frac{1}{4}$	32	2 $\frac{3}{8}$
9	4 $\frac{5}{8}$	29	11 $\frac{1}{4}$ - $\frac{1}{16}$	9	9	31	1	10	1 $\frac{3}{8}$	32	2 $\frac{3}{4}$ - $\frac{1}{16}$
9	4 $\frac{3}{4}$	29	11 $\frac{5}{8}$ - $\frac{1}{16}$	9	9 $\frac{1}{8}$	31	1 $\frac{3}{8}$ - $\frac{1}{16}$	10	1 $\frac{1}{2}$	32	3 $\frac{1}{8}$ - $\frac{1}{16}$
9	4 $\frac{7}{8}$	30	0 $\frac{1}{16}$	9	9 $\frac{1}{4}$	31	1 $\frac{3}{4}$ - $\frac{1}{16}$	10	1 $\frac{5}{8}$	32	3 $\frac{1}{2}$ - $\frac{1}{16}$
9	5	30	0 $\frac{3}{8}$ - $\frac{1}{16}$	9	9 $\frac{3}{8}$	31	2 $\frac{1}{4}$	10	1 $\frac{3}{4}$	32	3 $\frac{7}{8}$ - $\frac{1}{16}$
9	5 $\frac{1}{8}$	30	0 $\frac{7}{8}$	9	9 $\frac{1}{2}$	31	2 $\frac{5}{8}$	10	1 $\frac{7}{8}$	32	4 $\frac{3}{8}$
9	5 $\frac{1}{4}$	30	1 $\frac{1}{4}$	9	9 $\frac{5}{8}$	31	3	10	2	32	4 $\frac{3}{4}$
9	5 $\frac{3}{8}$	30	1 $\frac{5}{8}$	9	9 $\frac{3}{4}$	31	3 $\frac{3}{8}$	10	2 $\frac{1}{8}$	32	5 $\frac{1}{8}$
9	5 $\frac{1}{2}$	30	2	9	9 $\frac{7}{8}$	31	3 $\frac{3}{4}$	10	2 $\frac{1}{4}$	32	5 $\frac{1}{2}$
9	5 $\frac{5}{8}$	30	2 $\frac{3}{8}$ - $\frac{1}{16}$	9	10	31	4 $\frac{1}{8}$	10	2 $\frac{3}{8}$	32	5 $\frac{7}{8}$ - $\frac{1}{16}$
9	5 $\frac{3}{4}$	30	2 $\frac{3}{4}$ - $\frac{1}{16}$	9	10 $\frac{1}{8}$	31	4 $\frac{1}{2}$ - $\frac{1}{16}$	10	2 $\frac{1}{2}$	32	6 $\frac{1}{4}$ - $\frac{1}{16}$
9	5 $\frac{7}{8}$	30	3 $\frac{1}{4}$	9	10 $\frac{1}{4}$	31	5	10	2 $\frac{5}{8}$	32	6 $\frac{5}{8}$ - $\frac{1}{16}$
9	6	30	3 $\frac{5}{8}$	9	10 $\frac{3}{8}$	31	5 $\frac{3}{8}$	10	2 $\frac{3}{4}$	32	7 $\frac{1}{8}$
9	6 $\frac{1}{8}$	30	4	9	10 $\frac{1}{2}$	31	5 $\frac{3}{4}$	10	2 $\frac{7}{8}$	32	7 $\frac{1}{2}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	3	32	$7\frac{3}{8}$	10	$7\frac{3}{8}$	33	$9\frac{5}{8}$	10	$11\frac{3}{4}$	34	$11\frac{3}{8}$
10	$3\frac{1}{8}$	32	$8\frac{1}{4}$	10	$7\frac{1}{2}$	33	10	10	$11\frac{7}{8}$	34	$11\frac{3}{4}$
10	$3\frac{1}{4}$	32	$8\frac{5}{8}-\frac{1}{16}$	10	$7\frac{5}{8}$	33	$10\frac{3}{4}-\frac{1}{16}$	11	0	35	$0\frac{1}{8}$
10	$3\frac{3}{8}$	32	$9\frac{1}{16}$	10	$7\frac{3}{4}$	33	$10\frac{3}{4}-\frac{1}{16}$	11	$0\frac{1}{8}$	35	$0\frac{1}{2}-\frac{1}{16}$
10	$3\frac{1}{2}$	32	$9\frac{3}{8}-\frac{1}{16}$	10	$7\frac{7}{8}$	33	$11\frac{1}{8}-\frac{1}{16}$	11	$0\frac{1}{4}$	35	$0\frac{7}{8}-\frac{1}{16}$
10	$3\frac{5}{8}$	32	$9\frac{3}{4}-\frac{1}{16}$	10	8	33	$11\frac{1}{2}-\frac{1}{16}$	11	$0\frac{3}{8}$	35	$1\frac{1}{4}-\frac{1}{16}$
10	$3\frac{3}{4}$	32	$10\frac{1}{4}$	10	$8\frac{1}{8}$	34	0	11	$0\frac{1}{2}$	35	$1\frac{3}{4}$
10	$3\frac{7}{8}$	32	$10\frac{5}{8}$	10	$8\frac{1}{4}$	34	$0\frac{3}{8}$	11	$0\frac{5}{8}$	35	$2\frac{1}{8}$
10	4	32	11	10	$8\frac{3}{8}$	34	$0\frac{3}{4}$	11	$0\frac{3}{4}$	35	$2\frac{1}{2}$
10	$4\frac{1}{8}$	32	$11\frac{3}{8}-\frac{1}{16}$	10	$8\frac{1}{2}$	34	$1\frac{1}{8}-\frac{1}{16}$	11	$0\frac{7}{8}$	35	$2\frac{7}{8}$
10	$4\frac{1}{4}$	32	$11\frac{3}{4}-\frac{1}{16}$	10	$8\frac{5}{8}$	34	$1\frac{1}{2}-\frac{1}{16}$	11	1	35	$3\frac{1}{4}-\frac{1}{16}$
10	$4\frac{3}{8}$	33	$0\frac{1}{4}$	10	$8\frac{3}{4}$	34	$1\frac{7}{8}-\frac{1}{16}$	11	$1\frac{1}{8}$	35	$3\frac{5}{8}-\frac{1}{16}$
10	$4\frac{1}{2}$	33	$0\frac{5}{8}$	10	$8\frac{7}{8}$	34	$2\frac{1}{4}-\frac{1}{16}$	11	$1\frac{1}{4}$	35	$4\frac{1}{16}$
10	$4\frac{5}{8}$	33	1	10	9	34	$2\frac{3}{4}$	11	$1\frac{3}{8}$	35	$4\frac{1}{2}$
10	$4\frac{3}{4}$	33	$1\frac{3}{8}$	10	$9\frac{1}{8}$	34	$3\frac{1}{8}$	11	$1\frac{1}{2}$	35	$4\frac{7}{8}$
10	$4\frac{7}{8}$	33	$1\frac{3}{4}$	10	$9\frac{1}{4}$	34	$3\frac{1}{2}$	11	$1\frac{5}{8}$	35	$5\frac{1}{4}$
10	5	33	$2\frac{1}{8}-\frac{1}{16}$	10	$9\frac{3}{8}$	34	$3\frac{7}{8}-\frac{1}{16}$	11	$1\frac{3}{4}$	35	$5\frac{5}{8}$
10	$5\frac{1}{8}$	33	$2\frac{1}{2}-\frac{1}{16}$	10	$9\frac{1}{2}$	34	$4\frac{1}{4}-\frac{1}{16}$	11	$1\frac{7}{8}$	35	$6\frac{1}{16}$
10	$5\frac{1}{4}$	33	3	10	$9\frac{5}{8}$	34	$4\frac{5}{8}-\frac{1}{16}$	11	2	35	$6\frac{3}{8}-\frac{1}{16}$
10	$5\frac{3}{8}$	33	$3\frac{3}{8}$	10	$9\frac{3}{4}$	34	$5\frac{1}{16}$	11	$2\frac{1}{8}$	35	$6\frac{3}{4}-\frac{1}{16}$
10	$5\frac{1}{2}$	33	$3\frac{3}{4}$	10	$9\frac{7}{8}$	34	$5\frac{1}{2}$	11	$2\frac{1}{4}$	35	$7\frac{1}{4}$
10	$5\frac{5}{8}$	33	$4\frac{1}{8}$	10	10	34	$5\frac{5}{8}$	11	$2\frac{3}{8}$	35	$7\frac{5}{8}$
10	$5\frac{3}{4}$	33	$4\frac{1}{2}$	10	$10\frac{1}{8}$	34	$6\frac{1}{4}$	11	$2\frac{1}{2}$	35	8
10	$5\frac{7}{8}$	33	$4\frac{7}{8}$	10	$10\frac{1}{4}$	34	$6\frac{3}{8}-\frac{1}{16}$	11	$2\frac{5}{8}$	35	$8\frac{3}{8}-\frac{1}{16}$
10	6	33	$5\frac{1}{4}-\frac{1}{16}$	10	$10\frac{3}{8}$	34	$7\frac{1}{16}$	11	$2\frac{3}{4}$	35	$8\frac{3}{4}-\frac{1}{16}$
10	$6\frac{1}{8}$	33	$5\frac{5}{8}-\frac{1}{16}$	10	$10\frac{1}{2}$	34	$7\frac{3}{8}-\frac{1}{16}$	11	$2\frac{7}{8}$	35	$9\frac{1}{8}-\frac{1}{16}$
10	$6\frac{1}{4}$	33	$6\frac{1}{16}$	10	$10\frac{5}{8}$	34	$7\frac{3}{4}-\frac{1}{16}$	11	3	35	$9\frac{1}{2}-\frac{1}{16}$
10	$6\frac{3}{8}$	33	$6\frac{1}{2}$	10	$10\frac{3}{4}$	34	$8\frac{1}{4}$	11	$3\frac{1}{8}$	35	10
10	$6\frac{1}{2}$	33	$6\frac{7}{8}$	10	$10\frac{7}{8}$	34	$8\frac{5}{8}$	11	$3\frac{1}{4}$	35	$10\frac{3}{8}$
10	$6\frac{3}{4}$	33	$7\frac{1}{4}$	10	11	34	9	11	$3\frac{3}{8}$	35	$10\frac{3}{4}$
10	$6\frac{7}{8}$	33	$7\frac{5}{8}-\frac{1}{16}$	10	$11\frac{1}{8}$	34	$9\frac{3}{8}$	11	$3\frac{1}{2}$	35	$11\frac{1}{8}$
10	7	33	$8\frac{1}{16}$	10	$11\frac{1}{4}$	34	$9\frac{3}{4}-\frac{1}{16}$	11	$3\frac{5}{8}$	35	$11\frac{1}{2}-\frac{1}{16}$
10	$7\frac{1}{8}$	33	$8\frac{3}{8}-\frac{1}{16}$	10	$11\frac{3}{8}$	34	$10\frac{1}{8}-\frac{1}{16}$	11	$3\frac{3}{4}$	35	$11\frac{7}{8}-\frac{1}{16}$
10	$7\frac{1}{4}$	33	$8\frac{7}{8}$	10	$11\frac{1}{2}$	34	$10\frac{1}{2}-\frac{1}{16}$	11	$3\frac{7}{8}$	36	$0\frac{1}{4}-\frac{1}{16}$
10	$7\frac{3}{4}$	33	$9\frac{1}{4}$	10	$11\frac{5}{8}$	34	11	11	4	36	$0\frac{5}{8}-\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE OUTSIDE). 93

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4 $\frac{1}{8}$	36	1 $\frac{1}{8}$	11	8 $\frac{1}{2}$	37	2 $\frac{7}{8}$	12	0 $\frac{7}{8}$	38	4 $\frac{3}{8}$	
4 $\frac{1}{4}$	36	1 $\frac{1}{2}$	11	8 $\frac{5}{8}$	37	3 $\frac{1}{4}$	12	1	38	5	
4 $\frac{3}{8}$	36	1 $\frac{7}{8}$	11	8 $\frac{3}{4}$	37	3 $\frac{5}{8}$	12	1 $\frac{1}{8}$	38	5 $\frac{3}{8}$	
4 $\frac{1}{2}$	36	2 $\frac{1}{4}$ - $\frac{1}{16}$	11	8 $\frac{7}{8}$	37	4 $\frac{1}{16}$	12	1 $\frac{1}{4}$	38	5 $\frac{3}{4}$ - $\frac{1}{16}$	
4 $\frac{5}{8}$	36	2 $\frac{5}{8}$ - $\frac{1}{16}$	11	9	37	4 $\frac{3}{8}$ - $\frac{1}{16}$	12	1 $\frac{3}{8}$	38	6 $\frac{1}{4}$	
4 $\frac{3}{4}$	36	3 $\frac{1}{16}$	11	9 $\frac{1}{8}$	37	4 $\frac{3}{4}$ - $\frac{1}{16}$	12	1 $\frac{1}{2}$	38	6 $\frac{5}{8}$	
4 $\frac{7}{8}$	36	3 $\frac{1}{2}$	11	9 $\frac{1}{4}$	37	5 $\frac{1}{4}$	12	1 $\frac{5}{8}$	38	7	
5	36	3 $\frac{7}{8}$	11	9 $\frac{3}{8}$	37	5 $\frac{5}{8}$	12	1 $\frac{3}{4}$	38	7 $\frac{3}{8}$	
5 $\frac{1}{8}$	36	4 $\frac{1}{4}$	11	9 $\frac{1}{2}$	37	6	12	1 $\frac{7}{8}$	38	7 $\frac{3}{4}$	
5 $\frac{1}{4}$	36	4 $\frac{5}{8}$	11	9 $\frac{5}{8}$	37	6 $\frac{3}{8}$	12	2	38	8 $\frac{1}{8}$	
5 $\frac{3}{8}$	36	5	11	9 $\frac{3}{4}$	37	6 $\frac{3}{4}$	12	2 $\frac{1}{8}$	38	8 $\frac{1}{2}$ - $\frac{1}{16}$	
5 $\frac{1}{2}$	36	5 $\frac{3}{8}$ - $\frac{1}{16}$	11	9 $\frac{7}{8}$	37	7 $\frac{1}{8}$ - $\frac{1}{16}$	12	2 $\frac{1}{4}$	38	8 $\frac{7}{8}$ - $\frac{1}{16}$	
5 $\frac{5}{8}$	36	5 $\frac{3}{4}$ - $\frac{1}{16}$	11	10	37	7 $\frac{1}{2}$ - $\frac{1}{16}$	12	2 $\frac{3}{8}$	38	9 $\frac{1}{4}$ - $\frac{1}{16}$	
5 $\frac{3}{4}$	36	6 $\frac{1}{4}$	11	10 $\frac{1}{8}$	37	7 $\frac{7}{8}$ - $\frac{1}{16}$	12	2 $\frac{1}{2}$	38	9 $\frac{3}{4}$	
5 $\frac{7}{8}$	36	6 $\frac{5}{8}$	11	10 $\frac{1}{4}$	37	8 $\frac{3}{8}$	12	2 $\frac{5}{8}$	38	10 $\frac{1}{8}$	
6	36	7	11	10 $\frac{3}{8}$	37	8 $\frac{3}{4}$	12	2 $\frac{3}{4}$	38	10 $\frac{1}{2}$	
6 $\frac{1}{8}$	36	7 $\frac{3}{8}$	11	10 $\frac{1}{2}$	37	9 $\frac{1}{8}$	12	2 $\frac{7}{8}$	38	10 $\frac{7}{8}$	
6 $\frac{1}{4}$	36	7 $\frac{3}{4}$ - $\frac{1}{16}$	11	10 $\frac{5}{8}$	37	9 $\frac{1}{2}$	12	3	38	11 $\frac{1}{4}$	
6 $\frac{3}{8}$	36	8 $\frac{1}{8}$ - $\frac{1}{16}$	11	10 $\frac{3}{4}$	37	9 $\frac{7}{8}$	12	3 $\frac{1}{8}$	38	11 $\frac{5}{8}$ - $\frac{1}{16}$	
6 $\frac{1}{2}$	36	8 $\frac{1}{2}$ - $\frac{1}{16}$	11	10 $\frac{7}{8}$	37	10 $\frac{1}{4}$ - $\frac{1}{16}$	12	3 $\frac{1}{4}$	39	0 $\frac{1}{16}$	
6 $\frac{5}{8}$	36	9	11	11	37	10 $\frac{3}{4}$	12	3 $\frac{3}{8}$	39	0 $\frac{3}{8}$ - $\frac{1}{16}$	
6 $\frac{3}{4}$	36	9 $\frac{3}{8}$	11	11 $\frac{1}{8}$	37	11 $\frac{1}{8}$	12	3 $\frac{1}{2}$	39	0 $\frac{7}{8}$	
6 $\frac{7}{8}$	36	9 $\frac{3}{4}$	11	11 $\frac{1}{4}$	37	11 $\frac{1}{2}$	12	3 $\frac{5}{8}$	39	1 $\frac{1}{4}$	
7	36	10 $\frac{1}{8}$	11	11 $\frac{3}{8}$	37	11 $\frac{7}{8}$ - $\frac{1}{16}$	12	3 $\frac{3}{4}$	39	1 $\frac{5}{8}$	
7 $\frac{1}{8}$	36	10 $\frac{1}{2}$ - $\frac{1}{16}$	11	11 $\frac{1}{2}$	38	0 $\frac{1}{4}$ - $\frac{1}{16}$	12	3 $\frac{7}{8}$	39	2	
7 $\frac{1}{4}$	36	10 $\frac{7}{8}$ - $\frac{1}{16}$	11	11 $\frac{5}{8}$	38	0 $\frac{3}{4}$	12	4	39	2 $\frac{3}{8}$ - $\frac{1}{16}$	
7 $\frac{3}{8}$	36	11 $\frac{1}{4}$ - $\frac{1}{16}$	11	11 $\frac{3}{4}$	38	1 $\frac{1}{8}$	12	4 $\frac{1}{8}$	39	2 $\frac{3}{4}$ - $\frac{1}{16}$	
7 $\frac{1}{2}$	36	11 $\frac{3}{4}$	11	11 $\frac{7}{8}$	38	1 $\frac{1}{2}$	12	4 $\frac{1}{4}$	39	3 $\frac{1}{4}$	
7 $\frac{5}{8}$	37	0 $\frac{1}{8}$	12	0	38	1 $\frac{7}{8}$	12	4 $\frac{3}{8}$	39	3 $\frac{5}{8}$	
7 $\frac{3}{4}$	37	0 $\frac{1}{2}$	12	0 $\frac{1}{8}$	38	2 $\frac{1}{4}$	12	4 $\frac{1}{2}$	39	4	
7 $\frac{7}{8}$	37	0 $\frac{7}{8}$	12	0 $\frac{1}{4}$	38	2 $\frac{5}{8}$	12	4 $\frac{5}{8}$	39	4 $\frac{3}{8}$ - $\frac{1}{16}$	
8	37	1 $\frac{1}{4}$ - $\frac{1}{16}$	12	0 $\frac{3}{8}$	38	3	12	4 $\frac{3}{4}$	39	4 $\frac{3}{4}$ - $\frac{1}{16}$	
8 $\frac{1}{8}$	37	1 $\frac{5}{8}$ - $\frac{1}{16}$	12	0 $\frac{1}{2}$	38	3 $\frac{3}{8}$	12	4 $\frac{7}{8}$	39	5 $\frac{1}{8}$ - $\frac{1}{16}$	
8 $\frac{1}{4}$	37	2 $\frac{1}{16}$	12	0 $\frac{5}{8}$	38	3 $\frac{3}{4}$ - $\frac{1}{16}$	12	5	39	5 $\frac{1}{2}$ - $\frac{1}{16}$	
8 $\frac{3}{8}$	37	2 $\frac{3}{8}$ - $\frac{1}{16}$	12	0 $\frac{3}{4}$	38	4 $\frac{1}{8}$ - $\frac{1}{16}$	12	5 $\frac{1}{8}$	39	5 $\frac{7}{8}$ - $\frac{1}{16}$	

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$5\frac{1}{4}$	39	$6\frac{3}{8}$	12	$7\frac{5}{8}$	40	$1\frac{3}{4}-\frac{1}{16}$	12	10	40	$9\frac{1}{4}-\frac{1}{16}$
12	$5\frac{3}{8}$	39	$6\frac{3}{4}$	12	$7\frac{3}{4}$	40	$2\frac{1}{8}-\frac{1}{16}$	12	$10\frac{1}{8}$	40	$9\frac{5}{8}-\frac{1}{16}$
12	$5\frac{1}{2}$	39	$7\frac{1}{8}$	12	$7\frac{7}{8}$	40	$2\frac{1}{2}-\frac{1}{16}$	12	$10\frac{1}{4}$	40	$10\frac{1}{16}$
12	$5\frac{5}{8}$	39	$7\frac{1}{2}$	12	8	40	$2\frac{7}{8}-\frac{1}{16}$	12	$10\frac{3}{8}$	40	$10\frac{1}{2}$
12	$5\frac{3}{4}$	39	$7\frac{7}{8}-\frac{1}{16}$	12	$8\frac{1}{8}$	40	$3\frac{3}{8}$	12	$10\frac{1}{2}$	40	$10\frac{7}{8}$
12	$5\frac{7}{8}$	39	$8\frac{1}{4}-\frac{1}{16}$	12	$8\frac{1}{4}$	40	$3\frac{3}{4}-\frac{1}{16}$	12	$10\frac{5}{8}$	40	$11\frac{1}{4}$
12	6	39	$8\frac{3}{8}-\frac{1}{16}$	12	$8\frac{3}{8}$	40	$4\frac{1}{8}-\frac{1}{16}$	12	$10\frac{3}{4}$	40	$11\frac{5}{8}-\frac{1}{16}$
12	$6\frac{1}{8}$	39	$9\frac{1}{8}$	12	$8\frac{1}{2}$	40	$4\frac{1}{2}-\frac{1}{16}$	12	$10\frac{7}{8}$	41	$0\frac{1}{16}$
12	$6\frac{1}{4}$	39	$9\frac{1}{2}$	12	$8\frac{5}{8}$	40	$4\frac{7}{8}-\frac{1}{16}$	12	11	41	$0\frac{3}{8}-\frac{1}{16}$
12	$6\frac{3}{8}$	39	$9\frac{7}{8}$	12	$8\frac{3}{4}$	40	$5\frac{1}{4}-\frac{1}{16}$	12	$11\frac{1}{8}$	41	$0\frac{7}{8}$
12	$6\frac{1}{2}$	39	$10\frac{1}{4}-\frac{1}{16}$	12	$8\frac{7}{8}$	40	$5\frac{3}{4}$	12	$11\frac{1}{4}$	41	$1\frac{1}{4}$
12	$6\frac{5}{8}$	39	$10\frac{5}{8}-\frac{1}{16}$	12	9	40	$6\frac{1}{8}$	12	$11\frac{3}{8}$	41	$1\frac{5}{8}$
12	$6\frac{3}{4}$	39	$11\frac{1}{16}$	12	$9\frac{1}{8}$	40	$6\frac{1}{2}$	12	$11\frac{1}{2}$	41	$2\frac{1}{16}$
12	$6\frac{7}{8}$	39	$11\frac{3}{8}-\frac{1}{16}$	12	$9\frac{1}{4}$	40	$6\frac{7}{8}-\frac{1}{16}$	12	$11\frac{5}{8}$	41	$2\frac{3}{8}-\frac{1}{16}$
12	7	39	$11\frac{3}{4}-\frac{1}{16}$	12	$9\frac{3}{8}$	40	$7\frac{1}{4}-\frac{1}{16}$	12	$11\frac{3}{4}$	41	$2\frac{7}{8}$
12	$7\frac{1}{8}$	40	$0\frac{1}{4}$	12	$9\frac{1}{2}$	40	$7\frac{3}{4}$	12	$11\frac{7}{8}$	41	$3\frac{1}{4}$
12	$7\frac{1}{4}$	40	$0\frac{5}{8}$	12	$9\frac{5}{8}$	40	$8\frac{1}{8}$	13	0	41	$3\frac{5}{8}$
12	$7\frac{3}{8}$	40	1	12	$9\frac{3}{4}$	40	$8\frac{1}{2}$				
12	$7\frac{1}{2}$	40	$1\frac{3}{8}-\frac{1}{16}$	12	$9\frac{7}{8}$	40	$8\frac{7}{8}-\frac{1}{16}$				

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	$7\frac{1}{2}-\frac{1}{16}$	1	1	3	$10\frac{5}{8}-\frac{1}{16}$	1	2	4	$1\frac{3}{4}-\frac{1}{16}$
1	$0\frac{1}{8}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$1\frac{1}{8}$	3	$11\frac{1}{16}$	1	$2\frac{1}{8}$	4	$2\frac{1}{4}$
1	$0\frac{1}{4}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$1\frac{1}{4}$	3	$11\frac{1}{2}$	1	$2\frac{1}{4}$	4	$2\frac{5}{8}$
1	$0\frac{3}{8}$	3	$8\frac{3}{4}$	1	$1\frac{3}{8}$	3	$11\frac{7}{8}$	1	$2\frac{3}{8}$	4	$3\frac{1}{16}$
1	$0\frac{1}{2}$	3	$9\frac{1}{8}$	1	$1\frac{1}{2}$	4	$0\frac{1}{4}$	1	$2\frac{1}{2}$	4	$3\frac{3}{8}-\frac{1}{16}$
1	$0\frac{5}{8}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$1\frac{5}{8}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$2\frac{5}{8}$	4	$3\frac{3}{4}-\frac{1}{16}$
1	$0\frac{3}{4}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$1\frac{3}{4}$	4	$1\frac{1}{16}$	1	$2\frac{3}{4}$	4	$4\frac{1}{8}-\frac{1}{16}$
1	$0\frac{7}{8}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$1\frac{7}{8}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$2\frac{7}{8}$	4	$4\frac{1}{2}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 95

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	3	4	5	1	$7\frac{3}{8}$	5	$6\frac{3}{4}$	1	$11\frac{3}{4}$	6	$8\frac{1}{2}$
	$3\frac{1}{8}$	4	$5\frac{3}{8}$	1	$7\frac{1}{2}$	5	$7\frac{1}{8}$	1	$11\frac{7}{8}$	6	$8\frac{7}{8}$
	$3\frac{1}{4}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$7\frac{5}{8}$	5	$7\frac{1}{2}$	2	0	6	$9\frac{1}{4}$
	$3\frac{3}{8}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$7\frac{3}{4}$	5	$7\frac{7}{8}$	2	$0\frac{1}{8}$	6	$9\frac{3}{8}-\frac{1}{16}$
	$3\frac{1}{2}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$7\frac{7}{8}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{4}$	6	$10\frac{1}{16}$
	$3\frac{5}{8}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	8	5	$8\frac{5}{8}-\frac{1}{16}$	2	$0\frac{3}{8}$	6	$10\frac{3}{8}-\frac{1}{16}$
	$3\frac{3}{4}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$8\frac{1}{8}$	5	$9\frac{1}{16}$	2	$0\frac{1}{2}$	6	$10\frac{3}{4}-\frac{1}{16}$
	$3\frac{7}{8}$	4	$7\frac{3}{4}$	1	$8\frac{1}{4}$	5	$9\frac{1}{2}$	2	$0\frac{3}{8}$	6	$11\frac{1}{4}$
	4	4	$8\frac{1}{8}$	1	$8\frac{3}{8}$	5	$9\frac{7}{8}$	2	$0\frac{3}{4}$	6	$11\frac{5}{8}$
	$4\frac{1}{8}$	4	$8\frac{1}{2}$	1	$8\frac{1}{2}$	5	$10\frac{1}{4}$	2	$0\frac{7}{8}$	7	0
	$4\frac{1}{4}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$8\frac{5}{8}$	5	$10\frac{5}{8}$	2	1	7	$0\frac{3}{8}-\frac{1}{16}$
	$4\frac{3}{8}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$8\frac{3}{4}$	5	$11\frac{1}{16}$	2	$1\frac{1}{8}$	7	$0\frac{3}{4}-\frac{1}{16}$
	$4\frac{1}{2}$	4	$9\frac{5}{8}-\frac{1}{16}$	1	$8\frac{7}{8}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$1\frac{1}{4}$	7	$1\frac{1}{8}-\frac{1}{16}$
	$4\frac{5}{8}$	4	$10\frac{1}{16}$	1	9	5	$11\frac{3}{4}-\frac{1}{16}$	2	$1\frac{3}{8}$	7	$1\frac{1}{2}-\frac{1}{16}$
	$4\frac{3}{4}$	4	$10\frac{1}{2}$	1	$9\frac{1}{8}$	6	$0\frac{1}{4}$	2	$1\frac{1}{2}$	7	2
	$4\frac{7}{8}$	4	$10\frac{7}{8}$	1	$9\frac{1}{4}$	6	$0\frac{5}{8}$	2	$1\frac{5}{8}$	7	$2\frac{3}{8}$
	5	4	$11\frac{1}{4}$	1	$9\frac{3}{8}$	6	1	2	$1\frac{3}{4}$	7	$2\frac{3}{4}$
	$5\frac{1}{8}$	4	$11\frac{5}{8}-\frac{1}{16}$	1	$9\frac{1}{2}$	6	$1\frac{3}{8}$	2	$1\frac{7}{8}$	7	$3\frac{1}{8}$
	$5\frac{1}{4}$	5	$0\frac{1}{16}$	1	$9\frac{3}{8}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	2	7	$3\frac{1}{2}-\frac{1}{16}$
	$5\frac{3}{8}$	5	$0\frac{3}{8}-\frac{1}{16}$	1	$9\frac{3}{4}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	$2\frac{1}{8}$	7	$3\frac{7}{8}-\frac{1}{16}$
	$5\frac{1}{2}$	5	$0\frac{3}{4}-\frac{1}{16}$	1	$9\frac{7}{8}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$2\frac{1}{4}$	7	$4\frac{1}{4}-\frac{1}{16}$
	$5\frac{5}{8}$	5	$1\frac{1}{4}$	1	10	6	3	2	$2\frac{3}{8}$	7	$4\frac{3}{4}$
	$5\frac{3}{4}$	5	$1\frac{5}{8}$	1	$10\frac{1}{8}$	6	$3\frac{3}{8}$	2	$2\frac{1}{2}$	7	$5\frac{1}{8}$
	$5\frac{7}{8}$	5	2	1	$10\frac{1}{4}$	6	$3\frac{3}{4}$	2	$2\frac{5}{8}$	7	$5\frac{1}{2}$
	6	5	$2\frac{3}{8}-\frac{1}{16}$	1	$10\frac{3}{8}$	6	$4\frac{1}{8}$	2	$2\frac{3}{4}$	7	$5\frac{7}{8}$
	$6\frac{1}{8}$	5	$2\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{2}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$2\frac{7}{8}$	7	$6\frac{1}{4}-\frac{1}{16}$
	$6\frac{1}{4}$	5	$3\frac{1}{8}-\frac{1}{16}$	1	$10\frac{5}{8}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	3	7	$6\frac{5}{8}-\frac{1}{16}$
	$6\frac{3}{8}$	5	$3\frac{1}{2}-\frac{1}{16}$	1	$10\frac{3}{4}$	6	$5\frac{1}{4}-\frac{1}{16}$	2	$3\frac{1}{8}$	7	$7\frac{1}{16}$
	$6\frac{1}{2}$	5	4	1	$10\frac{7}{8}$	6	$5\frac{3}{4}$	2	$3\frac{1}{4}$	7	$7\frac{3}{8}-\frac{1}{16}$
	$6\frac{5}{8}$	5	$4\frac{3}{8}$	1	11	6	$6\frac{1}{8}$	2	$3\frac{3}{8}$	7	$7\frac{7}{8}$
	$6\frac{3}{4}$	5	$4\frac{3}{4}$	1	$11\frac{1}{8}$	6	$6\frac{1}{2}$	2	$3\frac{1}{2}$	7	$8\frac{1}{4}$
	$6\frac{7}{8}$	5	$5\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{4}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	$3\frac{5}{8}$	7	$8\frac{5}{8}$
	7	5	$5\frac{1}{2}-\frac{1}{16}$	1	$11\frac{3}{8}$	6	$7\frac{1}{4}-\frac{1}{16}$	2	$3\frac{3}{4}$	7	$9\frac{1}{16}$
	$7\frac{1}{8}$	5	$5\frac{7}{8}-\frac{1}{16}$	1	$11\frac{1}{2}$	6	$7\frac{3}{4}$	2	$3\frac{7}{8}$	7	$9\frac{3}{8}-\frac{1}{16}$
	$7\frac{1}{4}$	5	$6\frac{1}{4}-\frac{1}{16}$	1	$11\frac{5}{8}$	6	$8\frac{1}{8}$	2	4	7	$9\frac{3}{4}-\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	$4\frac{1}{8}$	7	$10\frac{1}{4}$	2	$8\frac{1}{2}$	9	0	3	$0\frac{7}{8}$	10	$1\frac{3}{4}$
2	$4\frac{1}{4}$	7	$10\frac{5}{8}$	2	$8\frac{5}{8}$	9	$0\frac{3}{8}$	3	1	10	$2\frac{1}{8}$
2	$4\frac{3}{8}$	7	11	2	$8\frac{3}{4}$	9	$0\frac{3}{4}-\frac{1}{16}$	3	$1\frac{1}{8}$	10	$2\frac{1}{2}$
2	$4\frac{1}{2}$	7	$11\frac{3}{8}$	2	$8\frac{7}{8}$	9	$1\frac{1}{8}-\frac{1}{16}$	3	$1\frac{1}{4}$	10	$2\frac{7}{8}$
2	$4\frac{5}{8}$	7	$11\frac{3}{4}-\frac{1}{16}$	2	9	9	$1\frac{5}{8}$	3	$1\frac{3}{8}$	10	$3\frac{1}{4}-\frac{1}{16}$
2	$4\frac{3}{4}$	8	$0\frac{1}{8}-\frac{1}{16}$	2	$9\frac{1}{8}$	9	2	3	$1\frac{1}{2}$	10	$3\frac{5}{8}-\frac{1}{16}$
2	$4\frac{7}{8}$	8	$0\frac{1}{2}-\frac{1}{16}$	2	$9\frac{1}{4}$	9	$2\frac{3}{8}$	3	$1\frac{5}{8}$	10	$4\frac{1}{8}$
2	5	8	1	2	$9\frac{3}{8}$	9	$2\frac{3}{4}$	3	$1\frac{3}{4}$	10	$4\frac{1}{2}$
2	$5\frac{1}{8}$	8	$1\frac{3}{8}$	2	$9\frac{1}{2}$	9	$3\frac{1}{8}$	3	$1\frac{7}{8}$	10	$4\frac{7}{8}$
2	$5\frac{1}{4}$	8	$1\frac{3}{4}-\frac{1}{16}$	2	$9\frac{5}{8}$	9	$3\frac{1}{2}$	3	2	10	$5\frac{1}{4}-\frac{1}{16}$
2	$5\frac{3}{8}$	8	$2\frac{1}{8}-\frac{1}{16}$	2	$9\frac{3}{4}$	9	$3\frac{7}{8}$	3	$2\frac{1}{8}$	10	$5\frac{5}{8}-\frac{1}{16}$
2	$5\frac{1}{2}$	8	$2\frac{1}{2}-\frac{1}{16}$	2	$9\frac{7}{8}$	9	$4\frac{1}{4}-\frac{1}{16}$	3	$2\frac{1}{4}$	10	$6\frac{1}{16}$
2	$5\frac{5}{8}$	8	3	2	10	9	$4\frac{5}{8}-\frac{1}{16}$	3	$2\frac{3}{8}$	10	$6\frac{3}{8}-\frac{1}{16}$
2	$5\frac{3}{4}$	8	$3\frac{3}{8}$	2	$10\frac{1}{8}$	9	$5\frac{1}{16}$	3	$2\frac{1}{2}$	10	$6\frac{3}{4}-\frac{1}{16}$
2	$5\frac{7}{8}$	8	$3\frac{3}{4}$	2	$10\frac{1}{4}$	9	$5\frac{1}{2}$	3	$2\frac{5}{8}$	10	$7\frac{1}{8}-\frac{1}{16}$
2	6	8	$4\frac{1}{8}$	2	$10\frac{3}{8}$	9	$5\frac{7}{8}$	3	$2\frac{3}{4}$	10	$7\frac{5}{8}$
2	$6\frac{1}{8}$	8	$4\frac{1}{2}$	2	$10\frac{1}{2}$	9	$6\frac{1}{4}-\frac{1}{16}$	3	$2\frac{7}{8}$	10	8
2	$6\frac{1}{4}$	8	$4\frac{5}{8}$	2	$10\frac{5}{8}$	9	$6\frac{5}{8}-\frac{1}{16}$	3	3	10	$8\frac{3}{8}$
2	$6\frac{3}{8}$	8	$5\frac{1}{4}-\frac{1}{16}$	2	$10\frac{3}{4}$	9	$7\frac{1}{16}$	3	$3\frac{1}{8}$	10	$8\frac{3}{4}-\frac{1}{16}$
2	$6\frac{1}{2}$	8	$5\frac{5}{8}-\frac{1}{16}$	2	$10\frac{7}{8}$	9	$7\frac{3}{8}-\frac{1}{16}$	3	$3\frac{1}{4}$	10	$9\frac{1}{8}-\frac{1}{16}$
2	$6\frac{5}{8}$	8	$6\frac{1}{16}$	2	11	9	$7\frac{3}{4}-\frac{1}{16}$	3	$3\frac{3}{8}$	10	$9\frac{5}{8}$
2	$6\frac{3}{4}$	8	$6\frac{1}{2}$	2	$11\frac{1}{8}$	9	$8\frac{1}{8}-\frac{1}{16}$	3	$3\frac{1}{2}$	10	10
2	$6\frac{7}{8}$	8	$6\frac{7}{8}$	2	$11\frac{1}{4}$	9	$8\frac{1}{2}-\frac{1}{16}$	3	$3\frac{5}{8}$	10	$10\frac{3}{8}$
2	7	8	$7\frac{1}{4}-\frac{1}{16}$	2	$11\frac{3}{8}$	9	9	3	$3\frac{3}{4}$	10	$10\frac{3}{4}-\frac{1}{16}$
2	$7\frac{1}{8}$	8	$7\frac{5}{8}-\frac{1}{16}$	2	$11\frac{1}{2}$	9	$9\frac{3}{8}$	3	$3\frac{7}{8}$	10	$11\frac{1}{8}-\frac{1}{16}$
2	$7\frac{1}{4}$	8	$8\frac{1}{16}$	2	$11\frac{5}{8}$	9	$9\frac{3}{4}-\frac{1}{16}$	3	4	10	$11\frac{1}{2}-\frac{1}{16}$
2	$7\frac{3}{8}$	8	$8\frac{1}{2}$	2	$11\frac{3}{4}$	9	$10\frac{1}{8}-\frac{1}{16}$	3	$4\frac{1}{8}$	10	$11\frac{7}{8}-\frac{1}{16}$
2	$7\frac{1}{2}$	8	$8\frac{7}{8}$	2	$11\frac{7}{8}$	9	$10\frac{1}{2}-\frac{1}{16}$	3	$4\frac{1}{4}$	11	$0\frac{1}{4}-\frac{1}{16}$
2	$7\frac{5}{8}$	8	$9\frac{1}{4}$	3	0	9	11	3	$4\frac{3}{8}$	11	$0\frac{5}{8}-\frac{1}{16}$
2	$7\frac{3}{4}$	8	$9\frac{5}{8}$	3	$0\frac{1}{8}$	9	$11\frac{3}{8}$	3	$4\frac{1}{2}$	11	$1\frac{1}{16}$
2	$7\frac{7}{8}$	8	10	3	$0\frac{1}{4}$	9	$11\frac{3}{4}-\frac{1}{16}$	3	$4\frac{5}{8}$	11	$1\frac{1}{2}$
2	8	8	$10\frac{3}{8}$	3	$0\frac{3}{8}$	10	$0\frac{1}{8}-\frac{1}{16}$	3	$4\frac{3}{4}$	11	$1\frac{7}{8}$
2	$8\frac{1}{8}$	8	$10\frac{3}{4}-\frac{1}{16}$	3	$0\frac{1}{2}$	10	$0\frac{1}{2}-\frac{1}{16}$	3	$4\frac{7}{8}$	11	$2\frac{1}{4}-\frac{1}{16}$
2	$8\frac{1}{4}$	8	$11\frac{1}{8}-\frac{1}{16}$	3	$0\frac{5}{8}$	10	1	3	5	11	$2\frac{5}{8}-\frac{1}{16}$
2	$8\frac{3}{8}$	8	$11\frac{5}{8}$	3	$0\frac{3}{4}$	10	$1\frac{3}{8}$	3	$5\frac{1}{8}$	11	$3\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 97

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$5\frac{1}{4}$	11	$3\frac{1}{2}$	3	$9\frac{5}{8}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	2	13	7
3	$5\frac{3}{8}$	11	$3\frac{7}{8}$	3	$9\frac{3}{4}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	$2\frac{1}{8}$	13	$7\frac{3}{8}$
3	$5\frac{1}{2}$	11	$4\frac{1}{4}-\frac{1}{16}$	3	$9\frac{7}{8}$	12	6	4	$2\frac{1}{4}$	13	$7\frac{3}{4}$
3	$5\frac{3}{8}$	11	$4\frac{3}{8}-\frac{1}{16}$	3	10	12	$6\frac{3}{8}$	4	$2\frac{3}{8}$	13	$8\frac{1}{8}$
3	$5\frac{3}{4}$	11	$5\frac{1}{16}$	3	$10\frac{1}{8}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$2\frac{1}{2}$	13	$8\frac{1}{2}$
3	$5\frac{7}{8}$	11	$5\frac{3}{8}-\frac{1}{16}$	3	$10\frac{1}{4}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$2\frac{5}{8}$	13	$8\frac{7}{8}$
3	6	11	$5\frac{3}{4}-\frac{1}{16}$	3	$10\frac{3}{8}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	$2\frac{3}{4}$	13	$9\frac{1}{4}-\frac{1}{16}$
3	$6\frac{1}{8}$	11	$6\frac{1}{8}-\frac{1}{16}$	3	$10\frac{1}{2}$	12	8	4	$2\frac{7}{8}$	13	$9\frac{5}{8}-\frac{1}{16}$
3	$6\frac{1}{4}$	11	$6\frac{1}{2}-\frac{1}{16}$	3	$10\frac{5}{8}$	12	$8\frac{3}{8}$	4	3	13	$10\frac{1}{16}$
3	$6\frac{3}{8}$	11	7	3	$10\frac{3}{4}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	$3\frac{1}{8}$	13	$10\frac{1}{2}$
3	$6\frac{1}{2}$	11	$7\frac{3}{8}$	3	$10\frac{7}{8}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	$3\frac{1}{4}$	13	$10\frac{7}{8}$
3	$6\frac{5}{8}$	11	$7\frac{3}{4}-\frac{1}{16}$	3	11	12	$9\frac{1}{2}-\frac{1}{16}$	4	$3\frac{3}{8}$	13	$11\frac{1}{4}-\frac{1}{16}$
3	$6\frac{3}{4}$	11	$8\frac{1}{8}-\frac{1}{16}$	3	$11\frac{1}{8}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$3\frac{1}{2}$	13	$11\frac{5}{8}-\frac{1}{16}$
3	$6\frac{7}{8}$	11	$8\frac{1}{2}-\frac{1}{16}$	3	$11\frac{1}{4}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$3\frac{5}{8}$	14	$0\frac{1}{16}$
3	7	11	9	3	$11\frac{3}{8}$	12	$10\frac{5}{8}-\frac{1}{16}$	4	$3\frac{3}{4}$	14	$0\frac{1}{2}$
3	$7\frac{1}{8}$	11	$9\frac{3}{8}$	3	$11\frac{1}{2}$	12	$11\frac{1}{16}$	4	$3\frac{7}{8}$	14	$0\frac{7}{8}$
3	$7\frac{1}{4}$	11	$9\frac{3}{4}-\frac{1}{16}$	3	$11\frac{5}{8}$	12	$11\frac{1}{2}$	4	4	14	$1\frac{1}{4}$
3	$7\frac{3}{8}$	11	$10\frac{1}{8}-\frac{1}{16}$	3	$11\frac{3}{4}$	12	$11\frac{7}{8}$	4	$4\frac{1}{8}$	14	$1\frac{5}{8}$
3	$7\frac{1}{2}$	11	$10\frac{1}{2}-\frac{1}{16}$	3	$11\frac{7}{8}$	13	$0\frac{1}{4}-\frac{1}{16}$	4	$4\frac{1}{4}$	14	2
3	$7\frac{5}{8}$	11	$10\frac{5}{8}-\frac{1}{16}$	4	0	13	$0\frac{5}{8}-\frac{1}{16}$	4	$4\frac{3}{8}$	14	$2\frac{3}{8}$
3	$7\frac{3}{4}$	11	$11\frac{1}{4}-\frac{1}{16}$	4	$0\frac{1}{8}$	13	$1\frac{1}{16}$	4	$4\frac{1}{2}$	14	$2\frac{3}{4}-\frac{1}{16}$
3	$7\frac{7}{8}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	$0\frac{1}{4}$	13	$1\frac{1}{2}$	4	$4\frac{5}{8}$	14	$3\frac{1}{8}-\frac{1}{16}$
3	8	12	$0\frac{1}{16}$	4	$0\frac{3}{8}$	13	$1\frac{7}{8}$	4	$4\frac{3}{4}$	14	$3\frac{1}{2}-\frac{1}{16}$
3	$8\frac{1}{8}$	12	$0\frac{1}{2}$	4	$0\frac{1}{2}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	$4\frac{7}{8}$	14	4
3	$8\frac{1}{4}$	12	$0\frac{7}{8}$	4	$0\frac{5}{8}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	5	14	$4\frac{3}{8}$
3	$8\frac{3}{8}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	$0\frac{3}{4}$	13	$3\frac{1}{16}$	4	$5\frac{1}{8}$	14	$4\frac{3}{4}-\frac{1}{16}$
3	$8\frac{1}{2}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	$0\frac{7}{8}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	$5\frac{1}{4}$	14	$5\frac{1}{8}-\frac{1}{16}$
3	$8\frac{5}{8}$	12	$2\frac{1}{16}$	4	1	13	$3\frac{3}{4}-\frac{1}{16}$	4	$5\frac{3}{8}$	14	$5\frac{1}{2}-\frac{1}{16}$
3	$8\frac{3}{4}$	12	$2\frac{1}{2}$	4	$1\frac{1}{8}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$5\frac{1}{2}$	14	6
3	$8\frac{7}{8}$	12	$2\frac{7}{8}$	4	$1\frac{1}{4}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	$5\frac{5}{8}$	14	$6\frac{3}{8}$
3	9	12	$3\frac{1}{4}-\frac{1}{16}$	4	$1\frac{3}{8}$	13	5	4	$5\frac{3}{4}$	14	$6\frac{3}{4}$
3	$9\frac{1}{8}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{2}$	13	$5\frac{3}{8}$	4	$5\frac{7}{8}$	14	$7\frac{1}{8}$
3	$9\frac{1}{4}$	12	$4\frac{1}{16}$	4	$1\frac{5}{8}$	13	$5\frac{3}{4}-\frac{1}{16}$	4	6	14	$7\frac{1}{2}$
3	$9\frac{3}{8}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$1\frac{3}{4}$	13	$6\frac{1}{8}-\frac{1}{16}$	4	$6\frac{1}{8}$	14	$7\frac{7}{8}$
3	$9\frac{1}{2}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	$1\frac{7}{8}$	13	$6\frac{1}{2}-\frac{1}{16}$	4	$6\frac{1}{4}$	14	$8\frac{1}{4}-\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	$6\frac{3}{8}$	14	$8\frac{5}{8}-\frac{1}{16}$	4	$10\frac{3}{4}$	15	$10\frac{1}{2}$	5	$3\frac{1}{8}$	17	$0\frac{1}{8}-\frac{1}{16}$
4	$6\frac{1}{2}$	14	$9\frac{1}{8}$	4	$10\frac{7}{8}$	15	$10\frac{7}{8}$	5	$3\frac{1}{4}$	17	$0\frac{1}{2}-\frac{1}{16}$
4	$6\frac{5}{8}$	14	$9\frac{1}{2}$	4	11	15	$11\frac{1}{4}$	5	$3\frac{3}{8}$	17	1
4	$6\frac{3}{4}$	14	$9\frac{5}{8}$	4	$11\frac{1}{8}$	15	$11\frac{5}{8}$	5	$3\frac{1}{2}$	17	$1\frac{3}{8}$
4	$6\frac{7}{8}$	14	$10\frac{1}{4}$	4	$11\frac{1}{4}$	16	0	5	$3\frac{5}{8}$	17	$1\frac{3}{4}-\frac{1}{16}$
4	7	14	$10\frac{5}{8}-\frac{1}{16}$	4	$11\frac{3}{8}$	16	$0\frac{3}{8}$	5	$3\frac{3}{4}$	17	$2\frac{1}{8}-\frac{1}{16}$
4	$7\frac{1}{8}$	14	$11\frac{1}{8}$	4	$11\frac{1}{2}$	16	$0\frac{3}{4}-\frac{1}{16}$	5	$3\frac{7}{8}$	17	$2\frac{1}{2}-\frac{1}{16}$
4	$7\frac{1}{4}$	14	$11\frac{1}{2}$	4	$11\frac{5}{8}$	16	$1\frac{1}{8}-\frac{1}{16}$	5	4	17	3
4	$7\frac{3}{8}$	14	$11\frac{7}{8}$	4	$11\frac{3}{4}$	16	$1\frac{1}{2}-\frac{1}{16}$	5	$4\frac{1}{8}$	17	$3\frac{3}{8}$
4	$7\frac{1}{2}$	15	$0\frac{1}{4}$	4	$11\frac{7}{8}$	16	2	5	$4\frac{1}{4}$	17	$3\frac{3}{4}$
4	$7\frac{5}{8}$	15	$0\frac{3}{8}$	5	0	16	$2\frac{3}{8}$	5	$4\frac{3}{8}$	17	$4\frac{1}{8}$
4	$7\frac{3}{4}$	15	1	5	$0\frac{1}{8}$	16	$2\frac{3}{4}-\frac{1}{16}$	5	$4\frac{1}{2}$	17	$4\frac{1}{2}$
4	$7\frac{7}{8}$	15	$1\frac{3}{8}$	5	$0\frac{1}{4}$	16	$3\frac{1}{8}-\frac{1}{16}$	5	$4\frac{5}{8}$	17	$4\frac{7}{8}$
4	8	15	$1\frac{3}{4}-\frac{1}{16}$	5	$0\frac{3}{8}$	16	$3\frac{1}{2}-\frac{1}{16}$	5	$4\frac{3}{4}$	17	$5\frac{1}{4}$
4	$8\frac{1}{8}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	$0\frac{1}{2}$	16	4	5	$4\frac{7}{8}$	17	$5\frac{5}{8}-\frac{1}{16}$
4	$8\frac{1}{4}$	15	$2\frac{1}{2}-\frac{1}{16}$	5	$0\frac{5}{8}$	16	$4\frac{3}{8}$	5	5	17	$6\frac{1}{8}$
4	$8\frac{3}{8}$	15	3	5	$0\frac{3}{4}$	16	$4\frac{3}{4}$	5	$5\frac{1}{8}$	17	$6\frac{1}{2}$
4	$8\frac{1}{2}$	15	$3\frac{3}{8}$	5	$0\frac{7}{8}$	16	$5\frac{1}{8}$	5	$5\frac{1}{4}$	17	$6\frac{7}{8}$
4	$8\frac{5}{8}$	15	$3\frac{3}{4}-\frac{1}{16}$	5	1	16	$5\frac{1}{2}$	5	$5\frac{3}{8}$	17	$7\frac{1}{4}$
4	$8\frac{3}{4}$	15	$4\frac{1}{8}-\frac{1}{16}$	5	$1\frac{1}{8}$	16	$5\frac{7}{8}$	5	$5\frac{1}{2}$	17	$7\frac{5}{8}-\frac{1}{16}$
4	$8\frac{7}{8}$	15	$4\frac{1}{2}-\frac{1}{16}$	5	$1\frac{1}{4}$	16	$6\frac{1}{4}-\frac{1}{16}$	5	$5\frac{5}{8}$	17	$8\frac{1}{8}$
4	9	15	5	5	$1\frac{3}{8}$	16	$6\frac{5}{8}-\frac{1}{16}$	5	$5\frac{3}{4}$	17	$8\frac{1}{2}$
4	$9\frac{1}{8}$	15	$5\frac{3}{8}$	5	$1\frac{1}{2}$	16	$7\frac{1}{8}$	5	$5\frac{7}{8}$	17	$8\frac{7}{8}$
4	$9\frac{1}{4}$	15	$5\frac{3}{4}$	5	$1\frac{5}{8}$	16	$7\frac{1}{2}$	5	6	17	$9\frac{1}{4}$
4	$9\frac{3}{8}$	15	$6\frac{1}{8}$	5	$1\frac{3}{4}$	16	$7\frac{7}{8}$	5	$6\frac{1}{8}$	17	$9\frac{5}{8}$
4	$9\frac{1}{2}$	15	$6\frac{1}{2}$	5	$1\frac{7}{8}$	16	$8\frac{1}{4}-\frac{1}{16}$	5	$6\frac{1}{4}$	17	10
4	$9\frac{5}{8}$	15	$6\frac{7}{8}$	5	2	16	$8\frac{5}{8}-\frac{1}{16}$	5	$6\frac{3}{8}$	17	$10\frac{3}{8}$
4	$9\frac{3}{4}$	15	$7\frac{1}{4}-\frac{1}{16}$	5	$2\frac{1}{8}$	16	$9\frac{1}{8}$	5	$6\frac{1}{2}$	17	$10\frac{3}{4}-\frac{1}{16}$
4	$9\frac{7}{8}$	15	$7\frac{5}{8}-\frac{1}{16}$	5	$2\frac{1}{4}$	16	$9\frac{1}{2}$	5	$6\frac{5}{8}$	17	$11\frac{1}{8}-\frac{1}{16}$
4	10	15	$8\frac{1}{8}$	5	$2\frac{3}{8}$	16	$9\frac{7}{8}$	5	$6\frac{3}{4}$	17	$11\frac{1}{2}-\frac{1}{16}$
4	$10\frac{1}{8}$	15	$8\frac{1}{2}$	5	$2\frac{1}{2}$	16	$10\frac{1}{4}$	5	$6\frac{7}{8}$	18	0
4	$10\frac{1}{4}$	15	$8\frac{7}{8}$	5	$2\frac{5}{8}$	16	$10\frac{3}{8}$	5	7	18	$0\frac{3}{8}$
4	$10\frac{3}{8}$	15	$9\frac{1}{4}-\frac{1}{16}$	5	$2\frac{3}{4}$	16	11	5	$7\frac{1}{8}$	18	$0\frac{3}{4}-\frac{1}{16}$
4	$10\frac{1}{2}$	15	$9\frac{5}{8}-\frac{1}{16}$	5	$2\frac{7}{8}$	16	$11\frac{3}{8}$	5	$7\frac{1}{4}$	18	$1\frac{1}{8}-\frac{1}{16}$
4	$10\frac{5}{8}$	15	$10\frac{1}{16}$	5	3	16	$11\frac{3}{4}-\frac{1}{16}$	5	$7\frac{3}{8}$	18	$1\frac{1}{2}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 99

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	$7\frac{1}{2}$	18	$1\frac{7}{8}-\frac{1}{16}$	5	$11\frac{7}{8}$	19	$3\frac{5}{8}-\frac{1}{16}$	6	$4\frac{1}{4}$	20	$5\frac{3}{8}-\frac{1}{16}$
5	$7\frac{5}{8}$	18	$2\frac{1}{4}-\frac{1}{16}$	6	0	19	$4\frac{1}{8}$	6	$4\frac{3}{8}$	20	$5\frac{3}{4}-\frac{1}{16}$
5	$7\frac{3}{4}$	18	$2\frac{5}{8}-\frac{1}{16}$	6	$0\frac{1}{8}$	19	$4\frac{1}{2}$	6	$4\frac{1}{2}$	20	$6\frac{1}{8}-\frac{1}{16}$
5	$7\frac{7}{8}$	18	$3\frac{1}{8}$	6	$0\frac{1}{4}$	19	$4\frac{7}{8}$	6	$4\frac{5}{8}$	20	$6\frac{1}{2}-\frac{1}{16}$
5	8	18	$3\frac{1}{2}$	6	$0\frac{3}{8}$	19	$5\frac{1}{4}-\frac{1}{16}$	6	$4\frac{3}{4}$	20	7
5	$8\frac{1}{8}$	18	$3\frac{7}{8}$	6	$0\frac{1}{2}$	19	$5\frac{5}{8}-\frac{1}{16}$	6	$4\frac{7}{8}$	20	$7\frac{3}{8}$
5	$8\frac{1}{4}$	18	$4\frac{1}{4}-\frac{1}{16}$	6	$0\frac{5}{8}$	19	$6-\frac{1}{16}$	6	5	20	$7\frac{3}{4}-\frac{1}{16}$
5	$8\frac{3}{8}$	18	$4\frac{5}{8}-\frac{1}{16}$	6	$0\frac{3}{4}$	19	$6\frac{3}{8}-\frac{1}{16}$	6	$5\frac{1}{8}$	20	$8\frac{1}{8}-\frac{1}{16}$
5	$8\frac{1}{2}$	18	$5\frac{1}{8}$	6	$0\frac{7}{8}$	19	$6\frac{3}{4}-\frac{1}{16}$	6	$5\frac{1}{4}$	20	$8\frac{1}{2}-\frac{1}{16}$
5	$8\frac{5}{8}$	18	$5\frac{1}{2}$	6	1	19	$7\frac{1}{8}-\frac{1}{16}$	6	$5\frac{3}{8}$	20	9
5	$8\frac{3}{4}$	18	$5\frac{7}{8}$	6	$1\frac{1}{8}$	19	$7\frac{1}{2}-\frac{1}{16}$	6	$5\frac{1}{2}$	20	$9\frac{3}{8}$
5	$8\frac{7}{8}$	18	$6\frac{1}{4}-\frac{1}{16}$	6	$1\frac{1}{4}$	19	8	6	$5\frac{5}{8}$	20	$9\frac{3}{4}$
5	9	18	$6\frac{5}{8}-\frac{1}{16}$	6	$1\frac{3}{8}$	19	$8\frac{3}{8}$	6	$5\frac{3}{4}$	20	$10\frac{1}{8}$
5	$9\frac{1}{8}$	18	$7\frac{1}{16}$	6	$1\frac{1}{2}$	19	$8\frac{3}{4}-\frac{1}{16}$	6	$5\frac{7}{8}$	20	$10\frac{1}{2}$
5	$9\frac{1}{4}$	18	$7\frac{3}{8}-\frac{1}{16}$	6	$1\frac{5}{8}$	19	$9\frac{1}{8}-\frac{1}{16}$	6	6	20	$10\frac{7}{8}$
5	$9\frac{3}{8}$	18	$7\frac{3}{4}-\frac{1}{16}$	6	$1\frac{3}{4}$	19	$9\frac{1}{2}-\frac{1}{16}$	6	$6\frac{1}{8}$	20	$11\frac{1}{4}-\frac{1}{16}$
5	$9\frac{1}{2}$	18	$8\frac{1}{8}-\frac{1}{16}$	6	$1\frac{7}{8}$	19	10	6	$6\frac{1}{4}$	20	$11\frac{5}{8}-\frac{1}{16}$
5	$9\frac{5}{8}$	18	$8\frac{1}{2}-\frac{1}{16}$	6	2	19	$10\frac{3}{8}$	6	$6\frac{3}{8}$	21	$0\frac{1}{8}$
5	$9\frac{3}{4}$	18	9	6	$2\frac{1}{8}$	19	$10\frac{3}{4}-\frac{1}{16}$	6	$6\frac{1}{2}$	21	$0\frac{1}{2}$
5	$9\frac{7}{8}$	18	$9\frac{3}{8}$	6	$2\frac{1}{4}$	19	$11\frac{1}{8}-\frac{1}{16}$	6	$6\frac{5}{8}$	21	$0\frac{7}{8}$
5	10	18	$9\frac{3}{4}-\frac{1}{16}$	6	$2\frac{3}{8}$	19	$11\frac{1}{2}-\frac{1}{16}$	6	$6\frac{3}{4}$	21	$1\frac{1}{4}-\frac{1}{16}$
5	$10\frac{1}{8}$	18	$10\frac{1}{8}-\frac{1}{16}$	6	$2\frac{1}{2}$	19	$11\frac{7}{8}-\frac{1}{16}$	6	$6\frac{7}{8}$	21	$1\frac{5}{8}-\frac{1}{16}$
5	$10\frac{1}{4}$	18	$10\frac{1}{2}-\frac{1}{16}$	6	$2\frac{5}{8}$	20	$0\frac{1}{4}-\frac{1}{16}$	6	7	21	$2\frac{1}{8}$
5	$10\frac{3}{8}$	18	11	6	$2\frac{3}{4}$	20	$0\frac{5}{8}-\frac{1}{16}$	6	$7\frac{1}{8}$	21	$2\frac{1}{2}$
5	$10\frac{1}{2}$	18	$11\frac{3}{8}$	6	$2\frac{7}{8}$	20	$1\frac{1}{8}$	6	$7\frac{1}{4}$	21	$2\frac{7}{8}$
5	$10\frac{3}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$	6	3	20	$1\frac{1}{2}$	6	$7\frac{3}{8}$	21	$3\frac{1}{4}$
5	$10\frac{5}{8}$	19	$0\frac{1}{8}-\frac{1}{16}$	6	$3\frac{1}{8}$	20	$1\frac{7}{8}$	6	$7\frac{1}{2}$	21	$3\frac{3}{8}$
5	$10\frac{7}{8}$	19	$0\frac{1}{2}-\frac{1}{16}$	6	$3\frac{1}{4}$	20	$2\frac{1}{4}-\frac{1}{16}$	6	$7\frac{5}{8}$	21	4
5	11	19	$0\frac{7}{8}-\frac{1}{16}$	6	$3\frac{3}{8}$	20	$2\frac{5}{8}-\frac{1}{16}$	6	$7\frac{3}{4}$	21	$4\frac{3}{8}$
5	$11\frac{1}{8}$	19	$1\frac{1}{4}-\frac{1}{16}$	6	$3\frac{1}{2}$	20	$3\frac{1}{8}$	6	$7\frac{7}{8}$	21	$4\frac{3}{4}-\frac{1}{16}$
5	$11\frac{1}{4}$	19	$1\frac{5}{8}-\frac{1}{16}$	6	$3\frac{5}{8}$	20	$3\frac{1}{2}$	6	8	21	$5\frac{1}{8}-\frac{1}{16}$
5	$11\frac{3}{8}$	19	$2\frac{1}{8}$	6	$3\frac{3}{4}$	20	$3\frac{7}{8}$	6	$8\frac{1}{8}$	21	$5\frac{1}{2}-\frac{1}{16}$
5	$11\frac{1}{2}$	19	$2\frac{1}{2}$	6	$3\frac{7}{8}$	20	$4\frac{1}{4}-\frac{1}{16}$	6	$8\frac{1}{4}$	21	6
5	$11\frac{5}{8}$	19	$2\frac{7}{8}$	6	4	20	$4\frac{5}{8}-\frac{1}{16}$	6	$8\frac{3}{8}$	21	$6\frac{3}{8}$
5	$11\frac{3}{4}$	19	$3\frac{1}{4}-\frac{1}{16}$	6	$4\frac{1}{8}$	20	$5-\frac{1}{16}$	6	$8\frac{1}{2}$	21	$6\frac{3}{4}-\frac{1}{16}$

# 100 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$8\frac{5}{8}$	21	$7\frac{1}{8}-\frac{1}{16}$	7	1	22	$8\frac{7}{8}$	7	$5\frac{3}{8}$	23	$10\frac{3}{8}-\frac{1}{16}$
6	$8\frac{3}{4}$	21	$7\frac{1}{2}-\frac{1}{16}$	7	$1\frac{1}{8}$	22	$9\frac{1}{4}-\frac{1}{16}$	7	$5\frac{1}{2}$	23	$11\frac{1}{16}$
6	$8\frac{7}{8}$	21	8	7	$1\frac{1}{4}$	22	$9\frac{5}{8}-\frac{1}{16}$	7	$5\frac{5}{8}$	23	$11\frac{3}{8}-\frac{1}{16}$
6	9	21	$8\frac{3}{8}$	7	$1\frac{3}{8}$	22	$10\frac{1}{8}$	7	$5\frac{3}{4}$	23	$11\frac{3}{4}-\frac{1}{16}$
6	$9\frac{1}{8}$	21	$8\frac{3}{4}$	7	$1\frac{1}{2}$	22	$10\frac{1}{2}$	7	$5\frac{7}{8}$	24	$0\frac{1}{8}-\frac{1}{16}$
6	$9\frac{1}{4}$	21	$9\frac{1}{8}$	7	$1\frac{5}{8}$	22	$10\frac{7}{8}$	7	6	24	$0\frac{1}{2}-\frac{1}{16}$
6	$9\frac{3}{8}$	21	$9\frac{1}{2}$	7	$1\frac{3}{4}$	22	$11\frac{1}{4}-\frac{1}{16}$	7	$6\frac{1}{8}$	24	1
6	$9\frac{1}{2}$	21	$9\frac{7}{8}$	7	$1\frac{7}{8}$	22	$11\frac{5}{8}-\frac{1}{16}$	7	$6\frac{1}{4}$	24	$1\frac{3}{8}$
6	$9\frac{5}{8}$	21	$10\frac{1}{4}-\frac{1}{16}$	7	2	23	$0\frac{1}{8}$	7	$6\frac{3}{8}$	24	$1\frac{3}{4}-\frac{1}{16}$
6	$9\frac{3}{4}$	21	$10\frac{5}{8}-\frac{1}{16}$	7	$2\frac{1}{8}$	23	$0\frac{1}{2}$	7	$6\frac{1}{2}$	24	$2\frac{1}{8}-\frac{1}{16}$
6	$9\frac{7}{8}$	21	$11\frac{1}{8}$	7	$2\frac{1}{4}$	23	$0\frac{7}{8}$	7	$6\frac{5}{8}$	24	$2\frac{1}{2}-\frac{1}{16}$
6	10	21	$11\frac{1}{2}$	7	$2\frac{3}{8}$	23	$1\frac{1}{4}$	7	$6\frac{3}{4}$	24	3
6	$10\frac{1}{8}$	21	$11\frac{7}{8}$	7	$2\frac{1}{2}$	23	$1\frac{5}{8}$	7	$6\frac{7}{8}$	24	$3\frac{3}{8}$
6	$10\frac{1}{4}$	22	$0\frac{1}{4}-\frac{1}{16}$	7	$2\frac{5}{8}$	23	2	7	7	24	$3\frac{3}{4}-\frac{1}{16}$
6	$10\frac{3}{8}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	$2\frac{3}{4}$	23	$2\frac{3}{8}$	7	$7\frac{1}{8}$	24	$4\frac{1}{8}-\frac{1}{16}$
6	$10\frac{1}{2}$	22	$1\frac{1}{8}$	7	$2\frac{7}{8}$	23	$2\frac{3}{4}-\frac{1}{16}$	7	$7\frac{1}{4}$	24	$4\frac{1}{2}-\frac{1}{16}$
6	$10\frac{5}{8}$	22	$1\frac{1}{2}$	7	3	23	$3\frac{1}{8}-\frac{1}{16}$	7	$7\frac{3}{8}$	24	5
6	$10\frac{3}{4}$	22	$1\frac{7}{8}$	7	$3\frac{1}{8}$	23	$3\frac{1}{2}-\frac{1}{16}$	7	$7\frac{1}{2}$	24	$5\frac{3}{8}$
6	$10\frac{7}{8}$	22	$2\frac{1}{4}$	7	$3\frac{1}{4}$	23	4	7	$7\frac{5}{8}$	24	$5\frac{3}{4}$
6	11	22	$2\frac{5}{8}$	7	$3\frac{3}{8}$	23	$4\frac{3}{8}$	7	$7\frac{3}{4}$	24	$6\frac{1}{8}$
6	$11\frac{1}{8}$	22	3	7	$3\frac{1}{2}$	23	$4\frac{3}{4}-\frac{1}{16}$	7	$7\frac{7}{8}$	24	$6\frac{1}{2}$
6	$11\frac{1}{4}$	22	$3\frac{3}{8}$	7	$3\frac{5}{8}$	23	$5\frac{1}{8}-\frac{1}{16}$	7	8	24	$6\frac{7}{8}$
6	$11\frac{3}{8}$	22	$3\frac{3}{4}-\frac{1}{16}$	7	$3\frac{3}{4}$	23	$5\frac{1}{2}-\frac{1}{16}$	7	$8\frac{1}{8}$	24	$7\frac{1}{4}-\frac{1}{16}$
6	$11\frac{1}{2}$	22	$4\frac{1}{8}-\frac{1}{16}$	7	$3\frac{7}{8}$	23	6	7	$8\frac{1}{4}$	24	$7\frac{5}{8}-\frac{1}{16}$
6	$11\frac{5}{8}$	22	$4\frac{1}{2}-\frac{1}{16}$	7	4	23	$6\frac{3}{8}$	7	$8\frac{3}{8}$	24	$8\frac{1}{8}$
6	$11\frac{3}{4}$	22	5	7	$4\frac{1}{8}$	23	$6\frac{3}{4}$	7	$8\frac{1}{2}$	24	$8\frac{1}{2}$
6	$11\frac{7}{8}$	22	$5\frac{3}{8}$	7	$4\frac{1}{4}$	23	$7\frac{1}{8}$	7	$8\frac{5}{8}$	24	$8\frac{7}{8}$
7	0	22	$5\frac{3}{4}-\frac{1}{16}$	7	$4\frac{3}{8}$	23	$7\frac{1}{2}$	7	$8\frac{3}{4}$	24	$9\frac{1}{4}-\frac{1}{16}$
7	$0\frac{1}{8}$	22	$6\frac{1}{8}-\frac{1}{16}$	7	$4\frac{1}{2}$	23	$7\frac{7}{8}$	7	$8\frac{7}{8}$	24	$9\frac{5}{8}-\frac{1}{16}$
7	$0\frac{1}{4}$	22	$6\frac{1}{2}-\frac{1}{16}$	7	$4\frac{5}{8}$	23	$8\frac{1}{4}-\frac{1}{16}$	7	9	24	$10\frac{1}{16}$
7	$0\frac{3}{8}$	22	7	7	$4\frac{3}{4}$	23	$8\frac{5}{8}-\frac{1}{16}$	7	$9\frac{1}{8}$	24	$10\frac{3}{8}-\frac{1}{16}$
7	$0\frac{1}{2}$	22	$7\frac{3}{8}$	7	$4\frac{7}{8}$	23	$9\frac{1}{16}$	7	$9\frac{1}{4}$	24	$10\frac{3}{4}-\frac{1}{16}$
7	$0\frac{5}{8}$	22	$7\frac{3}{4}$	7	5	23	$9\frac{1}{2}$	7	$9\frac{3}{8}$	24	$11\frac{1}{8}-\frac{1}{16}$
7	$0\frac{3}{4}$	22	$8\frac{1}{8}$	7	$5\frac{1}{8}$	23	$9\frac{7}{8}$	7	$9\frac{1}{2}$	24	$11\frac{1}{2}-\frac{1}{16}$
7	$0\frac{7}{8}$	22	$8\frac{1}{2}$	7	$5\frac{1}{4}$	23	$10\frac{1}{4}-\frac{1}{16}$	7	$9\frac{5}{8}$	25	0



ANGLE-IRON RINGS (FLANGE OUTSIDE). 101

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	$9\frac{3}{4}$	25	$0\frac{3}{8}$	8	$2\frac{1}{8}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$6\frac{1}{2}$	27	$3\frac{7}{8}$
7	$9\frac{7}{8}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	$2\frac{1}{4}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	$6\frac{5}{8}$	27	$4\frac{1}{4}$
7	10	25	$1\frac{1}{8}-\frac{1}{16}$	8	$2\frac{3}{8}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$6\frac{3}{4}$	27	$4\frac{5}{8}-\frac{1}{16}$
7	$10\frac{1}{8}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$2\frac{1}{2}$	26	$3\frac{1}{4}-\frac{1}{16}$	8	$6\frac{7}{8}$	27	$5\frac{1}{16}$
7	$10\frac{1}{4}$	25	2	8	$2\frac{5}{8}$	26	$3\frac{5}{8}-\frac{1}{16}$	8	7	27	$5\frac{3}{8}-\frac{1}{16}$
7	$10\frac{3}{8}$	25	$2\frac{3}{8}$	8	$2\frac{3}{4}$	26	$4\frac{1}{8}$	8	$7\frac{1}{8}$	27	$5\frac{3}{4}-\frac{1}{16}$
7	$10\frac{1}{2}$	25	$2\frac{3}{4}-\frac{1}{16}$	8	$2\frac{7}{8}$	26	$4\frac{1}{2}$	8	$7\frac{1}{4}$	27	$6\frac{1}{4}$
7	$10\frac{5}{8}$	25	$3\frac{3}{8}-\frac{1}{16}$	8	3	26	$4\frac{7}{8}$	8	$7\frac{3}{8}$	27	$6\frac{5}{8}$
7	$10\frac{3}{4}$	25	$3\frac{1}{2}-\frac{1}{16}$	8	$3\frac{1}{8}$	26	$5\frac{1}{4}-\frac{1}{16}$	8	$7\frac{1}{2}$	27	7
7	$10\frac{7}{8}$	25	$3\frac{7}{8}-\frac{1}{16}$	8	$3\frac{1}{4}$	26	$5\frac{5}{8}-\frac{1}{16}$	8	$7\frac{5}{8}$	27	$7\frac{3}{8}-\frac{1}{16}$
7	11	25	$4\frac{1}{4}-\frac{1}{16}$	8	$3\frac{3}{8}$	26	$6\frac{1}{16}$	8	$7\frac{3}{4}$	27	$7\frac{3}{4}-\frac{1}{16}$
7	$11\frac{1}{8}$	25	$4\frac{5}{8}-\frac{1}{16}$	8	$3\frac{1}{2}$	26	$6\frac{3}{8}-\frac{1}{16}$	8	$7\frac{7}{8}$	27	$8\frac{1}{8}-\frac{1}{16}$
7	$11\frac{1}{4}$	25	$5\frac{1}{8}$	8	$3\frac{5}{8}$	26	$6\frac{3}{4}-\frac{1}{16}$	8	8	27	$8\frac{1}{2}-\frac{1}{16}$
7	$11\frac{3}{8}$	25	$5\frac{1}{2}$	8	$3\frac{3}{4}$	26	$7\frac{1}{4}$	8	$8\frac{1}{8}$	27	9
7	$11\frac{1}{2}$	25	$5\frac{7}{8}$	8	$3\frac{7}{8}$	26	$7\frac{5}{8}$	8	$8\frac{1}{4}$	27	$9\frac{3}{8}$
7	$11\frac{5}{8}$	25	$6\frac{1}{4}-\frac{1}{16}$	8	4	26	8	8	$8\frac{3}{8}$	27	$9\frac{3}{4}$
7	$11\frac{3}{4}$	25	$6\frac{5}{8}-\frac{1}{16}$	8	$4\frac{1}{8}$	26	$8\frac{3}{8}-\frac{1}{16}$	8	$8\frac{1}{2}$	27	$10\frac{1}{8}$
7	$11\frac{7}{8}$	25	$7\frac{1}{8}$	8	$4\frac{1}{4}$	26	$8\frac{3}{4}-\frac{1}{16}$	8	$8\frac{5}{8}$	27	$10\frac{1}{2}$
8	0	25	$7\frac{1}{2}$	8	$4\frac{3}{8}$	26	$9\frac{1}{8}-\frac{1}{16}$	8	$8\frac{3}{4}$	27	$10\frac{7}{8}-\frac{1}{16}$
8	$0\frac{1}{8}$	25	$7\frac{7}{8}$	8	$4\frac{1}{2}$	26	$9\frac{1}{2}-\frac{1}{16}$	8	$8\frac{7}{8}$	27	$11\frac{1}{4}-\frac{1}{16}$
8	$0\frac{1}{4}$	25	$8\frac{1}{4}-\frac{1}{16}$	8	$4\frac{5}{8}$	26	10	8	9	27	$11\frac{3}{4}$
8	$0\frac{3}{8}$	25	$8\frac{5}{8}-\frac{1}{16}$	8	$4\frac{3}{4}$	26	$10\frac{3}{8}$	8	$9\frac{1}{8}$	28	$0\frac{1}{8}$
8	$0\frac{1}{2}$	25	$9\frac{1}{16}$	8	$4\frac{7}{8}$	26	$10\frac{3}{4}$	8	$9\frac{1}{4}$	28	$0\frac{1}{2}$
8	$0\frac{5}{8}$	25	$9\frac{3}{8}-\frac{1}{16}$	8	5	26	$11\frac{1}{8}-\frac{1}{16}$	8	$9\frac{3}{8}$	28	$0\frac{7}{8}$
8	$0\frac{3}{4}$	25	$9\frac{3}{4}-\frac{1}{16}$	8	$5\frac{1}{8}$	26	$11\frac{1}{2}-\frac{1}{16}$	8	$9\frac{1}{2}$	28	$1\frac{1}{4}-\frac{1}{16}$
8	$0\frac{7}{8}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	$5\frac{1}{4}$	26	$11\frac{7}{8}-\frac{1}{16}$	8	$9\frac{5}{8}$	28	$1\frac{5}{8}-\frac{1}{16}$
8	1	25	$10\frac{1}{2}-\frac{1}{16}$	8	$5\frac{3}{8}$	27	$0\frac{1}{4}-\frac{1}{16}$	8	$9\frac{3}{4}$	28	$2\frac{1}{16}$
8	$1\frac{1}{8}$	25	11	8	$5\frac{1}{2}$	27	$0\frac{5}{8}-\frac{1}{16}$	8	$9\frac{7}{8}$	28	$2\frac{1}{2}$
8	$1\frac{1}{4}$	25	$11\frac{3}{8}$	8	$5\frac{5}{8}$	27	$1\frac{1}{16}$	8	10	28	$2\frac{7}{8}$
8	$1\frac{3}{8}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$5\frac{3}{4}$	27	$1\frac{1}{2}$	8	$10\frac{1}{8}$	28	$3\frac{1}{4}$
8	$1\frac{1}{2}$	26	$0\frac{1}{8}-\frac{1}{16}$	8	$5\frac{7}{8}$	27	$1\frac{7}{8}-\frac{1}{16}$	8	$10\frac{1}{4}$	28	$3\frac{5}{8}$
8	$1\frac{5}{8}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	6	27	$2\frac{1}{4}-\frac{1}{16}$	8	$10\frac{3}{8}$	28	4
8	$1\frac{3}{4}$	26	1	8	$6\frac{1}{8}$	27	$2\frac{5}{8}-\frac{1}{16}$	8	$10\frac{1}{2}$	28	$4\frac{3}{8}-\frac{1}{16}$
8	$1\frac{7}{8}$	26	$1\frac{3}{8}$	8	$6\frac{1}{4}$	27	$3\frac{1}{16}$	8	$10\frac{5}{8}$	28	$4\frac{7}{8}$
8	2	26	$1\frac{3}{4}-\frac{1}{16}$	8	$6\frac{3}{8}$	27	$3\frac{1}{2}$	8	$10\frac{3}{4}$	28	$5\frac{1}{4}$

102 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$10\frac{7}{8}$	28	$5\frac{3}{8}$	9	$3\frac{1}{4}$	29	$7\frac{3}{8}$	9	$7\frac{5}{8}$	30	$9\frac{1}{8}$
8	11	28	6	9	$3\frac{3}{8}$	29	$7\frac{3}{4}$	9	$7\frac{3}{4}$	30	$9\frac{1}{2}$
8	$11\frac{1}{8}$	28	$6\frac{3}{8}$	9	$3\frac{1}{2}$	29	$8\frac{1}{8}$	9	$7\frac{7}{8}$	30	$9\frac{7}{8}$
8	$11\frac{1}{4}$	28	$6\frac{3}{4}-\frac{1}{16}$	9	$3\frac{5}{8}$	29	$8\frac{1}{2}-\frac{1}{16}$	9	8	30	$10\frac{1}{4}$
8	$11\frac{3}{8}$	28	$7\frac{1}{8}-\frac{1}{16}$	9	$3\frac{3}{4}$	29	$8\frac{7}{8}-\frac{1}{16}$	9	$8\frac{1}{8}$	30	$10\frac{5}{8}-\frac{1}{16}$
8	$11\frac{1}{2}$	28	$7\frac{1}{2}-\frac{1}{16}$	9	$3\frac{7}{8}$	29	$9\frac{1}{4}-\frac{1}{16}$	9	$8\frac{1}{4}$	30	$11\frac{1}{16}$
8	$11\frac{5}{8}$	28	8	9	4	29	$9\frac{3}{4}$	9	$8\frac{3}{8}$	30	$11\frac{3}{8}-\frac{1}{16}$
8	$11\frac{3}{4}$	28	$8\frac{3}{8}$	9	$4\frac{1}{8}$	29	$10\frac{1}{8}$	9	$8\frac{1}{2}$	30	$11\frac{3}{4}-\frac{1}{16}$
8	$11\frac{7}{8}$	28	$8\frac{3}{4}$	9	$4\frac{1}{4}$	29	$10\frac{1}{2}$	9	$8\frac{5}{8}$	31	$0\frac{1}{4}$
9	0	28	$9\frac{1}{8}$	9	$4\frac{3}{8}$	29	$10\frac{3}{8}$	9	$8\frac{3}{4}$	31	$0\frac{5}{8}$
9	$0\frac{1}{8}$	28	$9\frac{1}{2}$	9	$4\frac{1}{2}$	29	$11\frac{1}{4}-\frac{1}{16}$	9	$8\frac{7}{8}$	31	1
9	$0\frac{1}{4}$	28	$9\frac{7}{8}-\frac{1}{16}$	9	$4\frac{5}{8}$	29	$11\frac{5}{8}-\frac{1}{16}$	9	9	31	$1\frac{3}{8}-\frac{1}{16}$
9	$0\frac{3}{8}$	28	$10\frac{1}{4}-\frac{1}{16}$	9	$4\frac{3}{4}$	30	$0\frac{1}{16}$	9	$9\frac{1}{8}$	31	$1\frac{3}{4}-\frac{1}{16}$
9	$0\frac{1}{2}$	28	$10\frac{3}{4}$	9	$4\frac{7}{8}$	30	$0\frac{3}{8}-\frac{1}{16}$	9	$9\frac{1}{4}$	31	$2\frac{1}{4}$
9	$0\frac{5}{8}$	28	$11\frac{1}{8}$	9	5	30	$0\frac{7}{8}$	9	$9\frac{3}{8}$	31	$2\frac{5}{8}$
9	$0\frac{3}{4}$	28	$11\frac{1}{2}$	9	$5\frac{1}{8}$	30	$1\frac{1}{4}$	9	$9\frac{1}{2}$	31	3
9	$0\frac{7}{8}$	28	$11\frac{7}{8}$	9	$5\frac{1}{4}$	30	$1\frac{5}{8}$	9	$9\frac{5}{8}$	31	$3\frac{3}{8}$
9	1	29	$0\frac{1}{4}-\frac{1}{16}$	9	$5\frac{3}{8}$	30	2	9	$9\frac{3}{4}$	31	$3\frac{3}{4}$
9	$1\frac{1}{8}$	29	$0\frac{5}{8}-\frac{1}{16}$	9	$5\frac{1}{2}$	30	$2\frac{3}{8}-\frac{1}{16}$	9	$9\frac{7}{8}$	31	$4\frac{1}{8}$
9	$1\frac{1}{4}$	29	$1\frac{1}{16}$	9	$5\frac{5}{8}$	30	$2\frac{3}{4}-\frac{1}{16}$	9	10	31	$4\frac{1}{2}-\frac{1}{16}$
9	$1\frac{3}{8}$	29	$1\frac{1}{2}$	9	$5\frac{3}{4}$	30	$3\frac{1}{4}$	9	$10\frac{1}{8}$	31	5
9	$1\frac{1}{2}$	29	$1\frac{7}{8}$	9	$5\frac{7}{8}$	30	$3\frac{5}{8}$	9	$10\frac{1}{4}$	31	$5\frac{3}{8}$
9	$1\frac{5}{8}$	29	$2\frac{1}{4}$	9	6	30	4	9	$10\frac{3}{8}$	31	$5\frac{3}{4}$
9	$1\frac{3}{4}$	29	$2\frac{5}{8}$	9	$6\frac{1}{8}$	30	$4\frac{3}{8}$	9	$10\frac{1}{2}$	31	$6\frac{1}{8}$
9	$1\frac{7}{8}$	29	3	9	$6\frac{1}{4}$	30	$4\frac{3}{4}$	9	$10\frac{5}{8}$	31	$6\frac{1}{2}$
9	2	29	$3\frac{3}{8}-\frac{1}{16}$	9	$6\frac{3}{8}$	30	$5\frac{1}{8}-\frac{1}{16}$	9	$10\frac{3}{4}$	31	$6\frac{7}{8}-\frac{1}{16}$
9	$2\frac{1}{8}$	29	$3\frac{3}{4}-\frac{1}{16}$	9	$6\frac{1}{2}$	30	$5\frac{1}{2}-\frac{1}{16}$	9	$10\frac{7}{8}$	31	$7\frac{1}{4}-\frac{1}{16}$
9	$2\frac{1}{4}$	29	$4\frac{1}{4}$	9	$6\frac{5}{8}$	30	6	9	11	31	$7\frac{5}{8}-\frac{1}{16}$
9	$2\frac{3}{8}$	29	$4\frac{5}{8}$	9	$6\frac{3}{4}$	30	$6\frac{3}{8}$	9	$11\frac{1}{8}$	31	$8\frac{1}{8}$
9	$2\frac{1}{2}$	29	5	9	$6\frac{7}{8}$	30	$6\frac{3}{4}$	9	$11\frac{1}{4}$	31	$8\frac{1}{2}$
9	$2\frac{5}{8}$	29	$5\frac{3}{8}$	9	7	30	$7\frac{1}{8}$	9	$11\frac{3}{8}$	31	$8\frac{7}{8}$
9	$2\frac{3}{4}$	29	$5\frac{3}{4}-\frac{1}{16}$	9	$7\frac{1}{8}$	30	$7\frac{1}{2}$	9	$11\frac{1}{2}$	31	$9\frac{1}{4}$
9	$2\frac{7}{8}$	29	$6\frac{1}{8}-\frac{1}{16}$	9	$7\frac{1}{4}$	30	$7\frac{7}{8}-\frac{1}{16}$	9	$11\frac{5}{8}$	31	$9\frac{5}{8}-\frac{1}{16}$
9	3	29	$6\frac{1}{2}-\frac{1}{16}$	9	$7\frac{3}{8}$	30	$8\frac{1}{4}-\frac{1}{16}$	9	$11\frac{3}{4}$	31	$10\frac{1}{16}$
9	$3\frac{1}{8}$	29	7	9	$7\frac{1}{2}$	30	$8\frac{3}{4}$	9	$11\frac{7}{8}$	31	$10\frac{3}{8}-\frac{1}{16}$

# ANGLE-IRON RINGS (FLANGE OUTSIDE). 103

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	0	31	$10\frac{7}{8}$	10	$4\frac{3}{8}$	33	$0\frac{5}{8}$	10	$8\frac{3}{4}$	34	$2\frac{1}{4}-\frac{1}{16}$
10	$0\frac{1}{8}$	31	$11\frac{1}{4}$	10	$4\frac{1}{2}$	33	1	10	$8\frac{7}{8}$	34	$2\frac{3}{4}$
10	$0\frac{1}{4}$	31	$11\frac{5}{8}$	10	$4\frac{5}{8}$	33	$1\frac{3}{8}$	10	9	34	$3\frac{1}{8}$
10	$0\frac{3}{8}$	32	0	10	$4\frac{3}{4}$	33	$1\frac{3}{4}$	10	$9\frac{1}{8}$	34	$3\frac{1}{2}$
10	$0\frac{1}{2}$	32	$0\frac{3}{8}-\frac{1}{16}$	10	$4\frac{7}{8}$	33	$2\frac{1}{8}-\frac{1}{16}$	10	$9\frac{1}{4}$	34	$3\frac{7}{8}-\frac{1}{16}$
10	$0\frac{5}{8}$	32	$0\frac{3}{4}-\frac{1}{16}$	10	5	33	$2\frac{1}{2}-\frac{1}{16}$	10	$9\frac{3}{8}$	34	$4\frac{1}{4}-\frac{1}{16}$
10	$0\frac{3}{4}$	32	$1\frac{1}{8}-\frac{1}{16}$	10	$5\frac{1}{8}$	33	3	10	$9\frac{1}{2}$	34	$4\frac{5}{8}-\frac{1}{16}$
10	$0\frac{7}{8}$	32	$1\frac{5}{8}$	10	$5\frac{1}{4}$	33	$3\frac{3}{8}$	10	$9\frac{5}{8}$	34	$5-\frac{1}{16}$
10	1	32	2	10	$5\frac{3}{8}$	33	$3\frac{3}{4}$	10	$9\frac{3}{4}$	34	$5\frac{1}{2}$
10	$1\frac{1}{8}$	32	$2\frac{3}{8}$	10	$5\frac{1}{2}$	33	$4\frac{1}{8}$	10	$9\frac{7}{8}$	34	$5\frac{7}{8}$
10	$1\frac{1}{4}$	32	$2\frac{3}{4}-\frac{1}{16}$	10	$5\frac{5}{8}$	33	$4\frac{1}{2}$	10	10	34	$6\frac{1}{4}$
10	$1\frac{3}{8}$	32	$3\frac{1}{8}-\frac{1}{16}$	10	$5\frac{3}{4}$	33	$4\frac{7}{8}$	10	$10\frac{1}{8}$	34	$6\frac{5}{8}-\frac{1}{16}$
10	$1\frac{1}{2}$	32	$3\frac{1}{2}-\frac{1}{16}$	10	$5\frac{7}{8}$	33	$5\frac{1}{4}-\frac{1}{16}$	10	$10\frac{1}{4}$	34	$7-\frac{1}{16}$
10	$1\frac{5}{8}$	32	$3\frac{7}{8}-\frac{1}{16}$	10	6	33	$5\frac{5}{8}-\frac{1}{16}$	10	$10\frac{3}{8}$	34	$7\frac{3}{8}-\frac{1}{16}$
10	$1\frac{3}{4}$	32	$4\frac{3}{8}$	10	$6\frac{1}{8}$	33	$6\frac{1}{16}$	10	$10\frac{1}{2}$	34	$7\frac{3}{4}-\frac{1}{16}$
10	$1\frac{7}{8}$	32	$4\frac{3}{4}$	10	$6\frac{1}{4}$	33	$6\frac{1}{2}$	10	$10\frac{5}{8}$	34	$8\frac{1}{4}$
10	2	32	$5\frac{1}{8}$	10	$6\frac{3}{8}$	33	$6\frac{7}{8}$	10	$10\frac{3}{4}$	34	$8\frac{5}{8}$
10	$2\frac{1}{8}$	32	$5\frac{1}{2}$	10	$6\frac{1}{2}$	33	$7\frac{1}{4}$	10	$10\frac{7}{8}$	34	9
10	$2\frac{1}{4}$	32	$5\frac{7}{8}-\frac{1}{16}$	10	$6\frac{5}{8}$	33	$7\frac{5}{8}-\frac{1}{16}$	10	11	34	$9\frac{3}{8}$
10	$2\frac{3}{8}$	32	$6\frac{1}{4}-\frac{1}{16}$	10	$6\frac{3}{4}$	33	$8\frac{1}{16}$	10	$11\frac{1}{8}$	34	$9\frac{3}{4}-\frac{1}{16}$
10	$2\frac{1}{2}$	32	$6\frac{5}{8}-\frac{1}{16}$	10	$6\frac{7}{8}$	33	$8\frac{3}{8}-\frac{1}{16}$	10	$11\frac{1}{4}$	34	$10\frac{1}{8}-\frac{1}{16}$
10	$2\frac{5}{8}$	32	$7\frac{1}{8}$	10	7	33	$8\frac{7}{8}$	10	$11\frac{3}{8}$	34	$10\frac{1}{2}-\frac{1}{16}$
10	$2\frac{3}{4}$	32	$7\frac{1}{2}$	10	$7\frac{1}{8}$	33	$9\frac{1}{4}$	10	$11\frac{1}{2}$	34	11
10	$2\frac{7}{8}$	32	$7\frac{7}{8}$	10	$7\frac{1}{4}$	33	$9\frac{5}{8}$	10	$11\frac{5}{8}$	34	$11\frac{3}{8}$
10	3	32	$8\frac{1}{4}$	10	$7\frac{3}{8}$	33	10	10	$11\frac{3}{4}$	34	$11\frac{3}{4}$
10	$3\frac{1}{8}$	32	$8\frac{5}{8}-\frac{1}{16}$	10	$7\frac{1}{2}$	33	$10\frac{3}{8}-\frac{1}{16}$	10	$11\frac{7}{8}$	35	$0\frac{1}{8}$
10	$3\frac{1}{4}$	32	$9\frac{1}{16}$	10	$7\frac{5}{8}$	33	$10\frac{3}{4}-\frac{1}{16}$	11	0	35	$0\frac{1}{2}-\frac{1}{16}$
10	$3\frac{3}{8}$	32	$9\frac{3}{8}-\frac{1}{16}$	10	$7\frac{3}{4}$	33	$11\frac{1}{8}-\frac{1}{16}$	11	$0\frac{1}{8}$	35	$0\frac{7}{8}-\frac{1}{16}$
10	$3\frac{1}{2}$	32	$9\frac{3}{4}-\frac{1}{16}$	10	$7\frac{7}{8}$	33	$11\frac{1}{2}-\frac{1}{16}$	11	$0\frac{1}{4}$	35	$1\frac{1}{4}-\frac{1}{16}$
10	$3\frac{5}{8}$	32	$10\frac{1}{4}$	10	8	34	0	11	$0\frac{3}{8}$	35	$1\frac{3}{4}$
10	$3\frac{3}{4}$	32	$10\frac{5}{8}$	10	$8\frac{1}{8}$	34	$0\frac{3}{8}$	11	$0\frac{1}{2}$	35	$2\frac{1}{8}$
10	$3\frac{7}{8}$	32	11	10	$8\frac{1}{4}$	34	$0\frac{3}{4}$	11	$0\frac{5}{8}$	35	$2\frac{1}{2}$
10	4	32	$11\frac{3}{8}-\frac{1}{16}$	10	$8\frac{3}{8}$	34	$1\frac{1}{8}-\frac{1}{16}$	11	$0\frac{3}{4}$	35	$2\frac{7}{8}$
10	$4\frac{1}{8}$	32	$11\frac{3}{4}-\frac{1}{16}$	10	$8\frac{1}{2}$	34	$1\frac{1}{2}-\frac{1}{16}$	11	$0\frac{7}{8}$	35	$3\frac{1}{4}-\frac{1}{16}$
10	$4\frac{1}{4}$	33	$0\frac{1}{4}$	10	$8\frac{5}{8}$	34	$1\frac{7}{8}-\frac{1}{16}$	11	1	35	$3\frac{5}{8}-\frac{1}{16}$

# 104 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	$1\frac{1}{8}$	35	$4-\frac{1}{16}$	11	$5\frac{1}{2}$	36	$5\frac{3}{4}-\frac{1}{16}$	11	$9\frac{7}{8}$	37	$7\frac{1}{2}-\frac{1}{16}$
11	$1\frac{1}{4}$	35	$4\frac{1}{2}$	11	$5\frac{5}{8}$	36	$6\frac{1}{4}$	11	10	37	$7\frac{7}{8}-\frac{1}{16}$
11	$1\frac{3}{8}$	35	$4\frac{7}{8}$	11	$5\frac{3}{4}$	36	$6\frac{5}{8}$	11	$10\frac{1}{8}$	37	$8\frac{3}{8}$
11	$1\frac{1}{2}$	35	$5\frac{1}{4}$	11	$5\frac{7}{8}$	36	7	11	$10\frac{1}{4}$	37	$8\frac{3}{4}$
11	$1\frac{5}{8}$	35	$5\frac{5}{8}$	11	6	36	$7\frac{3}{8}$	11	$10\frac{3}{8}$	37	$9\frac{1}{8}$
11	$1\frac{3}{4}$	35	$6-\frac{1}{16}$	11	$6\frac{1}{8}$	36	$7\frac{3}{4}-\frac{1}{16}$	11	$10\frac{1}{2}$	37	$9\frac{1}{2}$
11	$1\frac{7}{8}$	35	$6\frac{3}{8}-\frac{1}{16}$	11	$6\frac{1}{4}$	36	$8\frac{1}{8}-\frac{1}{16}$	11	$10\frac{5}{8}$	37	$9\frac{7}{8}$
11	2	35	$6\frac{3}{4}-\frac{1}{16}$	11	$6\frac{3}{8}$	36	$8\frac{1}{2}-\frac{1}{16}$	11	$10\frac{3}{4}$	37	$10\frac{1}{4}-\frac{1}{16}$
11	$2\frac{1}{8}$	35	$7\frac{1}{4}$	11	$6\frac{1}{2}$	36	9	11	$10\frac{7}{8}$	37	$10\frac{3}{4}$
11	$2\frac{1}{4}$	35	$7\frac{5}{8}$	11	$6\frac{5}{8}$	36	$9\frac{3}{8}$	11	11	37	$11\frac{1}{8}$
11	$2\frac{3}{8}$	35	8	11	$6\frac{3}{4}$	36	$9\frac{3}{4}$	11	$11\frac{1}{8}$	37	$11\frac{1}{2}$
11	$2\frac{1}{2}$	35	$8\frac{3}{8}-\frac{1}{16}$	11	$6\frac{7}{8}$	36	$10\frac{1}{8}$	11	$11\frac{1}{4}$	37	$11\frac{7}{8}-\frac{1}{16}$
11	$2\frac{5}{8}$	35	$8\frac{3}{4}-\frac{1}{16}$	11	7	36	$10\frac{1}{2}-\frac{1}{16}$	11	$11\frac{3}{8}$	38	$0\frac{1}{4}-\frac{1}{16}$
11	$2\frac{3}{4}$	35	$9\frac{1}{8}-\frac{1}{16}$	11	$7\frac{1}{8}$	36	$10\frac{7}{8}-\frac{1}{16}$	11	$11\frac{1}{2}$	38	$0\frac{3}{4}$
11	$2\frac{7}{8}$	35	$9\frac{1}{2}-\frac{1}{16}$	11	$7\frac{1}{4}$	36	$11\frac{1}{4}-\frac{1}{16}$	11	$11\frac{5}{8}$	38	$1\frac{1}{8}$
11	3	35	10	11	$7\frac{3}{8}$	36	$11\frac{3}{4}$	11	$11\frac{3}{4}$	38	$1\frac{1}{2}$
11	$3\frac{1}{8}$	35	$10\frac{3}{8}$	11	$7\frac{1}{2}$	37	$0\frac{1}{8}$	11	$11\frac{7}{8}$	38	$1\frac{7}{8}$
11	$3\frac{1}{4}$	35	$10\frac{3}{4}$	11	$7\frac{5}{8}$	37	$0\frac{1}{2}-\frac{1}{16}$	12	0	38	$2\frac{1}{4}$
11	$3\frac{3}{8}$	35	$11\frac{1}{8}$	11	$7\frac{3}{4}$	37	$0\frac{7}{8}$	12	$0\frac{1}{8}$	38	$2\frac{5}{8}$
11	$3\frac{1}{2}$	35	$11\frac{1}{2}-\frac{1}{16}$	11	$7\frac{7}{8}$	37	$1\frac{1}{4}-\frac{1}{16}$	12	$0\frac{1}{4}$	38	3
11	$3\frac{5}{8}$	35	$11\frac{7}{8}-\frac{1}{16}$	11	8	37	$1\frac{5}{8}-\frac{1}{16}$	12	$0\frac{3}{8}$	38	$3\frac{3}{8}$
11	$3\frac{3}{4}$	36	$0\frac{1}{4}-\frac{1}{16}$	11	$8\frac{1}{8}$	37	$2-\frac{1}{16}$	12	$0\frac{1}{2}$	38	$3\frac{3}{4}-\frac{1}{16}$
11	$3\frac{7}{8}$	36	$0\frac{5}{8}-\frac{1}{16}$	11	$8\frac{1}{4}$	37	$2\frac{3}{8}-\frac{1}{16}$	12	$0\frac{5}{8}$	38	$4\frac{1}{8}-\frac{1}{16}$
11	4	36	$1\frac{1}{8}$	11	$8\frac{3}{8}$	37	$2\frac{7}{8}$	12	$0\frac{3}{4}$	38	$4\frac{5}{8}$
11	$4\frac{1}{8}$	36	$1\frac{1}{2}$	11	$8\frac{1}{2}$	37	$3\frac{1}{4}$	12	$0\frac{7}{8}$	38	5
11	$4\frac{1}{4}$	36	$1\frac{7}{8}$	11	$8\frac{5}{8}$	37	$3\frac{5}{8}$	12	1	38	$5\frac{3}{8}$
11	$4\frac{3}{8}$	36	$2\frac{1}{4}-\frac{1}{16}$	11	$8\frac{3}{4}$	37	$4-\frac{1}{16}$	12	$1\frac{1}{8}$	38	$5\frac{3}{4}-\frac{1}{16}$
11	$4\frac{1}{2}$	36	$2\frac{5}{8}-\frac{1}{16}$	11	$8\frac{7}{8}$	37	$4\frac{3}{8}-\frac{1}{16}$	12	$1\frac{1}{4}$	38	$6\frac{1}{4}$
11	$4\frac{5}{8}$	36	$3-\frac{1}{16}$	11	9	37	$4\frac{1}{4}-\frac{1}{16}$	12	$1\frac{3}{8}$	38	$6\frac{5}{8}$
11	$4\frac{3}{4}$	36	$3\frac{1}{2}$	11	$9\frac{1}{8}$	37	$5\frac{1}{4}$	12	$1\frac{1}{2}$	38	7
11	$4\frac{7}{8}$	36	$3\frac{7}{8}$	11	$9\frac{1}{4}$	37	$5\frac{5}{8}$	12	$1\frac{5}{8}$	38	$7\frac{3}{8}$
11	5	36	$4\frac{1}{4}$	11	$9\frac{5}{8}$	37	6	12	$1\frac{3}{4}$	38	$7\frac{3}{4}$
11	$5\frac{1}{8}$	36	$4\frac{5}{8}$	11	$9\frac{1}{2}$	37	$6\frac{3}{8}$	12	$1\frac{7}{8}$	38	$8\frac{1}{8}$
11	$5\frac{1}{4}$	36	5	11	$9\frac{5}{8}$	37	$6\frac{3}{4}$	12	2	38	$8\frac{1}{2}-\frac{1}{16}$
11	$5\frac{3}{8}$	36	$5\frac{3}{8}-\frac{1}{16}$	11	$9\frac{3}{4}$	37	$7\frac{1}{8}-\frac{1}{16}$	12	$2\frac{1}{8}$	38	$8\frac{7}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 105

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$2\frac{1}{4}$	38	$9\frac{1}{4}-\frac{1}{16}$	12	$5\frac{5}{8}$	39	$7\frac{7}{8}-\frac{1}{16}$	12	9	40	$6\frac{1}{2}$
12	$2\frac{3}{8}$	38	$9\frac{3}{4}$	12	$5\frac{3}{4}$	39	$8\frac{1}{4}-\frac{1}{16}$	12	$9\frac{1}{8}$	40	$6\frac{7}{8}-\frac{1}{16}$
12	$2\frac{1}{2}$	38	$10\frac{1}{8}$	12	$5\frac{7}{8}$	39	$8\frac{5}{8}-\frac{1}{16}$	12	$9\frac{1}{4}$	40	$7\frac{1}{4}-\frac{1}{16}$
12	$2\frac{5}{8}$	38	$10\frac{1}{2}$	12	6	39	$9\frac{1}{8}$	12	$9\frac{3}{8}$	40	$7\frac{3}{4}$
12	$2\frac{3}{4}$	38	$10\frac{7}{8}$	12	$6\frac{1}{8}$	39	$9\frac{1}{2}$	12	$9\frac{1}{2}$	40	$8\frac{1}{8}$
12	$2\frac{7}{8}$	38	$11\frac{1}{4}$	12	$6\frac{1}{4}$	39	$9\frac{7}{8}$	12	$9\frac{5}{8}$	40	$8\frac{1}{2}$
12	3	38	$11\frac{5}{8}-\frac{1}{16}$	12	$6\frac{3}{8}$	39	$10\frac{1}{4}-\frac{1}{16}$	12	$9\frac{3}{4}$	40	$8\frac{7}{8}-\frac{1}{16}$
12	$3\frac{1}{8}$	39	$0-\frac{1}{16}$	12	$6\frac{1}{2}$	39	$10\frac{5}{8}-\frac{1}{16}$	12	$9\frac{7}{8}$	40	$9\frac{1}{4}-\frac{1}{16}$
12	$3\frac{1}{4}$	39	$0\frac{3}{8}-\frac{1}{16}$	12	$6\frac{5}{8}$	39	$11\frac{1}{4}$	12	10	40	$9\frac{5}{8}-\frac{1}{16}$
12	$3\frac{3}{8}$	39	$0\frac{7}{8}$	12	$6\frac{3}{4}$	39	$11\frac{3}{8}-\frac{1}{16}$	12	$10\frac{1}{8}$	40	$10-\frac{1}{16}$
12	$3\frac{1}{2}$	39	$1\frac{1}{4}$	12	$6\frac{7}{8}$	39	$11\frac{3}{4}-\frac{1}{16}$	12	$10\frac{1}{4}$	40	$10\frac{1}{2}$
12	$3\frac{5}{8}$	39	$1\frac{5}{8}$	12	7	40	$0\frac{1}{4}$	12	$10\frac{3}{8}$	40	$10\frac{7}{8}$
12	$3\frac{3}{4}$	39	2	12	$7\frac{1}{8}$	40	$0\frac{5}{8}$	12	$10\frac{1}{2}$	40	$11\frac{1}{4}$
12	$3\frac{7}{8}$	39	$2\frac{3}{8}-\frac{1}{16}$	12	$7\frac{1}{4}$	40	1	12	$10\frac{5}{8}$	40	$11\frac{5}{8}-\frac{1}{16}$
12	4	39	$2\frac{3}{4}-\frac{1}{16}$	12	$7\frac{3}{8}$	40	$1\frac{3}{8}-\frac{1}{16}$	12	$10\frac{3}{4}$	41	$0\frac{1}{16}$
12	$4\frac{1}{8}$	39	$3\frac{1}{4}$	12	$7\frac{1}{2}$	40	$1\frac{3}{4}-\frac{1}{16}$	12	$10\frac{7}{8}$	41	$0\frac{3}{8}-\frac{1}{16}$
12	$4\frac{1}{4}$	39	$3\frac{5}{8}$	12	$7\frac{5}{8}$	40	$2\frac{1}{8}-\frac{1}{16}$	12	11	41	$0\frac{7}{8}$
12	$4\frac{3}{8}$	39	4	12	$7\frac{3}{4}$	40	$2\frac{1}{2}-\frac{1}{16}$	12	$11\frac{1}{8}$	41	$1\frac{1}{4}$
12	$4\frac{1}{2}$	39	$4\frac{3}{8}-\frac{1}{16}$	12	$7\frac{7}{8}$	40	$2\frac{7}{8}-\frac{1}{16}$	12	$11\frac{1}{4}$	41	$1\frac{5}{8}$
12	$4\frac{5}{8}$	39	$4\frac{3}{4}-\frac{1}{16}$	12	8	40	$3\frac{3}{8}$	12	$11\frac{3}{8}$	41	$2\frac{1}{16}$
12	$4\frac{3}{4}$	39	$5\frac{1}{8}-\frac{1}{16}$	12	$8\frac{1}{8}$	40	$3\frac{3}{4}-\frac{1}{16}$	12	$11\frac{1}{2}$	41	$2\frac{3}{8}-\frac{1}{16}$
12	$4\frac{7}{8}$	39	$5\frac{1}{2}-\frac{1}{16}$	12	$8\frac{1}{4}$	40	$4\frac{1}{8}-\frac{1}{16}$	12	$11\frac{5}{8}$	41	$2\frac{7}{8}$
12	5	39	$5\frac{5}{8}-\frac{1}{16}$	12	$8\frac{3}{8}$	40	$4\frac{1}{2}-\frac{1}{16}$	12	$11\frac{3}{4}$	41	$3\frac{1}{4}$
12	$5\frac{1}{8}$	39	$6\frac{3}{8}$	12	$8\frac{1}{2}$	40	$4\frac{7}{8}-\frac{1}{16}$	12	$11\frac{7}{8}$	41	$3\frac{5}{8}$
12	$5\frac{1}{4}$	39	$6\frac{3}{4}$	12	$8\frac{5}{8}$	40	$5\frac{1}{4}-\frac{1}{16}$	13	0	41	4
12	$5\frac{3}{8}$	39	$7\frac{1}{8}$	12	$8\frac{3}{4}$	40	$5\frac{3}{4}$				
12	$5\frac{1}{2}$	39	$7\frac{1}{2}$	12	$8\frac{7}{8}$	40	$6\frac{1}{8}$				

# 106      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	$7\frac{7}{8}-\frac{1}{16}$	1	$4\frac{3}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	1	$8\frac{3}{4}$	5	$11\frac{3}{8}-\frac{1}{16}$
1	$0\frac{1}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$4\frac{1}{2}$	4	$10\frac{1}{16}$	1	$8\frac{7}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$0\frac{1}{4}$	3	$8\frac{3}{4}$	1	$4\frac{5}{8}$	4	$10\frac{1}{2}$	1	9	6	$0\frac{1}{4}$
1	$0\frac{3}{8}$	3	$9\frac{1}{8}$	1	$4\frac{3}{4}$	4	$10\frac{3}{8}$	1	$9\frac{1}{8}$	6	$0\frac{5}{8}$
1	$0\frac{1}{2}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$4\frac{7}{8}$	4	$11\frac{1}{4}$	1	$9\frac{1}{4}$	6	1
1	$0\frac{5}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	5	4	$11\frac{5}{8}-\frac{1}{16}$	1	$9\frac{3}{8}$	6	$1\frac{3}{8}$
1	$0\frac{3}{4}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$5\frac{1}{8}$	5	$0\frac{1}{16}$	1	$9\frac{1}{2}$	6	$1\frac{3}{4}-\frac{1}{16}$
1	$0\frac{7}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$5\frac{1}{4}$	5	$0\frac{3}{8}-\frac{1}{16}$	1	$9\frac{5}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	1	3	$11\frac{1}{16}$	1	$5\frac{3}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	1	$9\frac{3}{4}$	6	$2\frac{1}{2}-\frac{1}{16}$
1	$1\frac{1}{8}$	3	$11\frac{1}{2}$	1	$5\frac{1}{2}$	5	$1\frac{1}{4}$	1	$9\frac{7}{8}$	6	3
1	$1\frac{1}{4}$	3	$11\frac{7}{8}$	1	$5\frac{5}{8}$	5	$1\frac{5}{8}$	1	10	6	$3\frac{3}{8}$
1	$1\frac{3}{8}$	4	$0\frac{1}{4}$	1	$5\frac{3}{4}$	5	2	1	$10\frac{1}{8}$	6	$3\frac{3}{4}$
1	$1\frac{1}{2}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$5\frac{7}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	1	$10\frac{1}{4}$	6	$4\frac{1}{8}$
1	$1\frac{5}{8}$	4	$1\frac{1}{16}$	1	6	5	$2\frac{3}{4}-\frac{1}{16}$	1	$10\frac{3}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$
1	$1\frac{3}{4}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$6\frac{1}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	1	$10\frac{1}{2}$	6	$4\frac{7}{8}-\frac{1}{16}$
1	$1\frac{7}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$6\frac{1}{4}$	5	$3\frac{1}{2}-\frac{1}{16}$	1	$10\frac{5}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	2	4	$2\frac{1}{4}$	1	$6\frac{3}{8}$	5	4	1	$10\frac{3}{4}$	6	$5\frac{3}{4}$
1	$2\frac{1}{8}$	4	$2\frac{5}{8}$	1	$6\frac{1}{2}$	5	$4\frac{3}{8}$	1	$10\frac{7}{8}$	6	$6\frac{1}{8}$
1	$2\frac{1}{4}$	4	$3\frac{1}{16}$	1	$6\frac{5}{8}$	5	$4\frac{3}{4}$	1	11	6	$6\frac{1}{2}$
1	$2\frac{3}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$6\frac{3}{4}$	5	$5\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$2\frac{1}{2}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$6\frac{7}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	1	$11\frac{1}{4}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	$2\frac{5}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	7	5	$5\frac{7}{8}-\frac{1}{16}$	1	$11\frac{3}{8}$	6	$7\frac{3}{4}$
1	$2\frac{3}{4}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$7\frac{1}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	1	$11\frac{1}{2}$	6	$8\frac{1}{8}$
1	$2\frac{7}{8}$	4	5	1	$7\frac{1}{4}$	5	$6\frac{3}{4}$	1	$11\frac{5}{8}$	6	$8\frac{1}{2}$
1	3	4	$5\frac{3}{8}$	1	$7\frac{3}{8}$	5	$7\frac{1}{8}$	1	$11\frac{3}{4}$	6	$8\frac{7}{8}$
1	$3\frac{1}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$7\frac{1}{2}$	5	$7\frac{1}{2}$	1	$11\frac{7}{8}$	6	$9\frac{1}{4}$
1	$3\frac{1}{4}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$7\frac{5}{8}$	5	$7\frac{7}{8}$	2	0	6	$9\frac{5}{8}-\frac{1}{16}$
1	$3\frac{3}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$7\frac{3}{4}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{8}$	6	$10\frac{1}{16}$
1	$3\frac{1}{2}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$7\frac{7}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$0\frac{1}{4}$	6	$10\frac{3}{8}-\frac{1}{16}$
1	$3\frac{5}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	8	5	$9\frac{1}{16}$	2	$0\frac{3}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	$3\frac{3}{4}$	4	$7\frac{3}{4}$	1	$8\frac{1}{8}$	5	$9\frac{1}{2}$	2	$0\frac{1}{2}$	6	$11\frac{1}{4}$
1	$3\frac{7}{8}$	4	$8\frac{1}{8}$	1	$8\frac{1}{4}$	5	$9\frac{7}{8}$	2	$0\frac{5}{8}$	6	$11\frac{5}{8}$
1	4	4	$8\frac{1}{2}$	1	$8\frac{3}{8}$	5	$10\frac{1}{4}$	2	$0\frac{3}{4}$	7	0
1	$4\frac{1}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$8\frac{1}{2}$	5	$10\frac{5}{8}$	2	$0\frac{7}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$
1	$4\frac{1}{4}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$8\frac{5}{8}$	5	$11\frac{1}{16}$	2	1	7	$0\frac{3}{4}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 107

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	1 $\frac{1}{8}$	7	1 $\frac{1}{8}$ - $\frac{1}{16}$	2	5 $\frac{1}{2}$	8	3	2	9 $\frac{7}{8}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$
2	1 $\frac{1}{4}$	7	1 $\frac{1}{2}$ - $\frac{1}{16}$	2	5 $\frac{5}{8}$	8	3 $\frac{3}{8}$	2	10	9	5 $\frac{1}{16}$
2	1 $\frac{3}{8}$	7	2	2	5 $\frac{3}{4}$	8	3 $\frac{1}{2}$	2	10 $\frac{1}{8}$	9	5 $\frac{1}{2}$
2	1 $\frac{1}{2}$	7	2 $\frac{3}{8}$	2	5 $\frac{7}{8}$	8	4 $\frac{1}{8}$	2	10 $\frac{1}{4}$	9	5 $\frac{7}{8}$
2	1 $\frac{5}{8}$	7	2 $\frac{3}{4}$	2	6	8	4 $\frac{1}{2}$	2	10 $\frac{3}{8}$	9	6 $\frac{1}{4}$ - $\frac{1}{8}$
2	1 $\frac{3}{4}$	7	3 $\frac{1}{8}$	2	6 $\frac{1}{8}$	8	4 $\frac{7}{8}$	2	10 $\frac{1}{2}$	9	6 $\frac{3}{8}$ - $\frac{1}{16}$
2	1 $\frac{7}{8}$	7	3 $\frac{1}{2}$ - $\frac{1}{16}$	2	6 $\frac{1}{4}$	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	2	10 $\frac{5}{8}$	9	7 $\frac{1}{16}$
2	2	7	3 $\frac{7}{8}$ - $\frac{1}{16}$	2	6 $\frac{3}{8}$	8	5 $\frac{3}{8}$ - $\frac{1}{16}$	2	10 $\frac{3}{4}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$
2	2 $\frac{1}{8}$	7	4 $\frac{1}{4}$ - $\frac{1}{16}$	2	6 $\frac{1}{2}$	8	6 $\frac{1}{16}$	2	10 $\frac{7}{8}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$
2	2 $\frac{1}{4}$	7	4 $\frac{3}{4}$	2	6 $\frac{5}{8}$	8	6 $\frac{1}{2}$	2	11	9	8 $\frac{1}{8}$ - $\frac{1}{16}$
2	2 $\frac{3}{8}$	7	5 $\frac{1}{8}$	2	6 $\frac{3}{4}$	8	6 $\frac{7}{8}$	2	11 $\frac{1}{8}$	9	8 $\frac{1}{2}$ - $\frac{1}{8}$
2	2 $\frac{1}{2}$	7	5 $\frac{1}{2}$	2	6 $\frac{7}{8}$	8	7 $\frac{1}{4}$ - $\frac{1}{16}$	2	11 $\frac{1}{4}$	9	9
2	2 $\frac{5}{8}$	7	5 $\frac{7}{8}$	2	7	8	7 $\frac{7}{8}$ - $\frac{1}{16}$	2	11 $\frac{3}{8}$	9	9 $\frac{3}{8}$
2	2 $\frac{3}{4}$	7	6 $\frac{1}{4}$ - $\frac{1}{16}$	2	7 $\frac{1}{8}$	8	8 $\frac{1}{16}$	2	11 $\frac{1}{2}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$
2	2 $\frac{7}{8}$	7	6 $\frac{5}{8}$ - $\frac{1}{16}$	2	7 $\frac{1}{4}$	8	8 $\frac{1}{2}$	2	11 $\frac{5}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$
2	3	7	7 $\frac{1}{16}$	2	7 $\frac{3}{8}$	8	8 $\frac{7}{8}$	2	11 $\frac{3}{4}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$
2	3 $\frac{1}{8}$	7	7 $\frac{3}{8}$ - $\frac{1}{16}$	2	7 $\frac{1}{2}$	8	9 $\frac{1}{4}$	2	11 $\frac{7}{8}$	9	11
2	3 $\frac{1}{4}$	7	7 $\frac{7}{8}$	2	7 $\frac{5}{8}$	8	9 $\frac{5}{8}$	3	0	9	11 $\frac{3}{8}$
2	3 $\frac{3}{8}$	7	8 $\frac{1}{4}$	2	7 $\frac{3}{4}$	8	10	3	0 $\frac{1}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$
2	3 $\frac{1}{2}$	7	8 $\frac{5}{8}$	2	7 $\frac{7}{8}$	8	10 $\frac{3}{8}$	3	0 $\frac{1}{4}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$
2	3 $\frac{5}{8}$	7	9 $\frac{1}{16}$	2	8	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{3}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$
2	3 $\frac{3}{4}$	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	2	8 $\frac{1}{8}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	0 $\frac{1}{2}$	10	1
2	3 $\frac{7}{8}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$	2	8 $\frac{1}{4}$	8	11 $\frac{5}{8}$	3	0 $\frac{5}{8}$	10	1 $\frac{3}{8}$
2	4	7	10 $\frac{1}{4}$	2	8 $\frac{3}{8}$	9	0	3	0 $\frac{3}{4}$	10	1 $\frac{3}{4}$
2	4 $\frac{1}{8}$	7	10 $\frac{5}{8}$	2	8 $\frac{1}{2}$	9	0 $\frac{3}{8}$	3	0 $\frac{7}{8}$	10	2 $\frac{1}{8}$
2	4 $\frac{1}{4}$	7	11	2	8 $\frac{5}{8}$	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	1	10	2 $\frac{1}{2}$
2	4 $\frac{3}{8}$	7	11 $\frac{3}{8}$	2	8 $\frac{3}{4}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{1}{8}$	10	2 $\frac{7}{8}$
2	4 $\frac{1}{2}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	2	8 $\frac{7}{8}$	9	1 $\frac{5}{8}$	3	1 $\frac{1}{4}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$
2	4 $\frac{5}{8}$	8	0 $\frac{1}{8}$ - $\frac{1}{16}$	2	9	9	2	3	1 $\frac{3}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$
2	4 $\frac{3}{4}$	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	2	9 $\frac{1}{8}$	9	2 $\frac{3}{8}$	3	1 $\frac{1}{2}$	10	4 $\frac{1}{8}$
2	4 $\frac{7}{8}$	8	1	2	9 $\frac{1}{4}$	9	2 $\frac{3}{4}$	3	1 $\frac{5}{8}$	10	4 $\frac{1}{2}$
2	5	8	1 $\frac{3}{8}$	2	9 $\frac{3}{8}$	9	3 $\frac{1}{8}$	3	1 $\frac{3}{4}$	10	4 $\frac{7}{8}$
2	5 $\frac{1}{8}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$	2	9 $\frac{1}{2}$	9	3 $\frac{1}{2}$	3	1 $\frac{7}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$
2	5 $\frac{1}{4}$	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	2	9 $\frac{5}{8}$	9	3 $\frac{7}{8}$	3	2	10	5 $\frac{5}{8}$ - $\frac{1}{16}$
2	5 $\frac{3}{8}$	8	2 $\frac{1}{2}$ - $\frac{1}{16}$	2	9 $\frac{3}{4}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{1}{8}$	10	6 $\frac{1}{16}$

108 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	2 $\frac{1}{4}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	6 $\frac{5}{8}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	11	12	9 $\frac{7}{8}$ - $\frac{1}{16}$
3	2 $\frac{3}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	6 $\frac{3}{4}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	11 $\frac{1}{8}$	12	10 $\frac{1}{4}$ - $\frac{1}{16}$
3	2 $\frac{1}{2}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$	3	6 $\frac{7}{8}$	11	9	3	11 $\frac{1}{4}$	12	10 $\frac{5}{8}$ - $\frac{1}{16}$
3	2 $\frac{5}{8}$	10	7 $\frac{5}{8}$	3	7	11	9 $\frac{3}{8}$	3	11 $\frac{3}{8}$	12	11 $\frac{1}{16}$
3	2 $\frac{3}{4}$	10	8	3	7 $\frac{1}{8}$	11	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	11 $\frac{1}{2}$	12	11 $\frac{1}{2}$
3	2 $\frac{7}{8}$	10	8 $\frac{3}{8}$	3	7 $\frac{1}{4}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	11 $\frac{5}{8}$	12	11 $\frac{7}{8}$
3	3	10	8 $\frac{1}{4}$ - $\frac{1}{16}$	3	7 $\frac{3}{8}$	11	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	11 $\frac{3}{4}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$
3	3 $\frac{1}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{2}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$	3	11 $\frac{7}{8}$	13	0 $\frac{5}{8}$ - $\frac{1}{16}$
3	3 $\frac{1}{4}$	10	9 $\frac{5}{8}$	3	7 $\frac{5}{8}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	0	13	1 $\frac{1}{16}$
3	3 $\frac{3}{8}$	10	10	3	7 $\frac{3}{4}$	11	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{1}{8}$	13	1 $\frac{1}{2}$
3	3 $\frac{1}{2}$	10	10 $\frac{3}{8}$	3	7 $\frac{7}{8}$	12	0 $\frac{1}{16}$	4	0 $\frac{1}{4}$	13	1 $\frac{7}{8}$
3	3 $\frac{5}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	8	12	0 $\frac{1}{2}$	4	0 $\frac{3}{8}$	13	2 $\frac{1}{4}$ - $\frac{1}{16}$
3	3 $\frac{3}{4}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{1}{8}$	12	0 $\frac{7}{8}$	4	0 $\frac{1}{2}$	13	2 $\frac{5}{8}$ - $\frac{1}{16}$
3	3 $\frac{7}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$	3	8 $\frac{1}{4}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$	4	0 $\frac{5}{8}$	13	3 $\frac{1}{16}$
3	4	10	11 $\frac{7}{8}$ - $\frac{1}{16}$	3	8 $\frac{3}{8}$	12	1 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{3}{4}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$
3	4 $\frac{1}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$	3	8 $\frac{1}{2}$	12	2 $\frac{1}{16}$	4	0 $\frac{7}{8}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$
3	4 $\frac{1}{4}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$	3	8 $\frac{5}{8}$	12	2 $\frac{1}{2}$	4	1	13	4 $\frac{1}{8}$ - $\frac{1}{16}$
3	4 $\frac{3}{8}$	11	1 $\frac{1}{16}$	3	8 $\frac{3}{4}$	12	2 $\frac{7}{8}$	4	1 $\frac{1}{8}$	13	4 $\frac{1}{2}$ - $\frac{1}{16}$
3	4 $\frac{1}{2}$	11	1 $\frac{1}{2}$	3	8 $\frac{7}{8}$	12	3 $\frac{1}{4}$ - $\frac{1}{16}$	4	1 $\frac{1}{4}$	13	5
3	4 $\frac{5}{8}$	11	1 $\frac{7}{8}$	3	9	12	3 $\frac{3}{8}$ - $\frac{1}{16}$	4	1 $\frac{3}{8}$	13	5 $\frac{3}{8}$
3	4 $\frac{3}{4}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{1}{8}$	12	4 $\frac{1}{16}$	4	1 $\frac{1}{2}$	13	5 $\frac{3}{4}$ - $\frac{1}{16}$
3	4 $\frac{7}{8}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{1}{4}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$	4	1 $\frac{5}{8}$	13	6 $\frac{1}{8}$ - $\frac{1}{16}$
3	5	11	3 $\frac{1}{16}$	3	9 $\frac{3}{8}$	12	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	1 $\frac{3}{4}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$
3	5 $\frac{1}{8}$	11	3 $\frac{1}{2}$	3	9 $\frac{1}{2}$	12	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	1 $\frac{7}{8}$	13	7
3	5 $\frac{1}{4}$	11	3 $\frac{7}{8}$	3	9 $\frac{5}{8}$	12	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	2	13	7 $\frac{3}{8}$
3	5 $\frac{3}{8}$	11	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{3}{4}$	12	6	4	2 $\frac{1}{8}$	13	7 $\frac{3}{4}$
3	5 $\frac{1}{2}$	11	4 $\frac{3}{8}$ - $\frac{1}{16}$	3	9 $\frac{7}{8}$	12	6 $\frac{3}{8}$	4	2 $\frac{1}{4}$	13	8 $\frac{1}{8}$
3	5 $\frac{5}{8}$	11	5 $\frac{1}{16}$	3	10	12	6 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{3}{8}$	13	8 $\frac{1}{2}$
3	5 $\frac{3}{4}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$	3	10 $\frac{1}{8}$	12	7 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{1}{2}$	13	8 $\frac{7}{8}$
3	5 $\frac{7}{8}$	11	5 $\frac{3}{4}$ - $\frac{1}{16}$	3	10 $\frac{1}{4}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$	4	2 $\frac{5}{8}$	13	9 $\frac{1}{4}$ - $\frac{1}{16}$
3	6	11	6 $\frac{1}{8}$ - $\frac{1}{16}$	3	10 $\frac{3}{8}$	12	8	4	2 $\frac{3}{4}$	13	9 $\frac{5}{8}$ - $\frac{1}{16}$
3	6 $\frac{1}{8}$	11	6 $\frac{1}{2}$ - $\frac{1}{16}$	3	10 $\frac{1}{2}$	12	8 $\frac{3}{8}$	4	2 $\frac{7}{8}$	13	10 $\frac{1}{16}$
3	6 $\frac{1}{4}$	11	7	3	10 $\frac{5}{8}$	12	8 $\frac{3}{4}$ - $\frac{1}{16}$	4	3	13	10 $\frac{1}{2}$
3	6 $\frac{3}{8}$	11	7 $\frac{3}{8}$	3	10 $\frac{3}{4}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$	4	3 $\frac{1}{8}$	13	10 $\frac{7}{8}$
3	6 $\frac{1}{2}$	11	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	10 $\frac{7}{8}$	12	9 $\frac{1}{2}$ - $\frac{1}{16}$	4	3 $\frac{1}{4}$	13	11 $\frac{1}{4}$ - $\frac{1}{16}$



DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	3 $\frac{3}{8}$	13	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	7 $\frac{3}{4}$	15	1 $\frac{3}{8}$	5	0 $\frac{1}{4}$	16	3 $\frac{1}{2}$ - $\frac{1}{16}$
4	3 $\frac{1}{2}$	14	0 $\frac{1}{16}$	4	7 $\frac{7}{8}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	0 $\frac{1}{2}$	16	4 $\frac{3}{8}$
4	3 $\frac{5}{8}$	14	0 $\frac{1}{2}$	4	8	15	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	0 $\frac{3}{4}$	16	5 $\frac{1}{8}$
4	3 $\frac{3}{4}$	14	0 $\frac{7}{8}$	4	8 $\frac{1}{8}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	1	16	5 $\frac{7}{8}$
4	3 $\frac{7}{8}$	14	1 $\frac{1}{4}$	4	8 $\frac{1}{4}$	15	3	5	1 $\frac{1}{4}$	16	6 $\frac{3}{8}$ - $\frac{1}{16}$
4	4	14	1 $\frac{5}{8}$	4	8 $\frac{3}{8}$	15	3 $\frac{3}{8}$	5	1 $\frac{1}{2}$	16	7 $\frac{1}{2}$
4	4 $\frac{1}{8}$	14	2	4	8 $\frac{1}{2}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$	5	1 $\frac{3}{4}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$
4	4 $\frac{1}{4}$	14	2 $\frac{3}{8}$	4	8 $\frac{5}{8}$	15	4 $\frac{1}{8}$ - $\frac{1}{16}$	5	2	16	9 $\frac{1}{8}$
4	4 $\frac{3}{8}$	14	2 $\frac{3}{4}$ - $\frac{1}{16}$	4	8 $\frac{3}{4}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$	5	2 $\frac{1}{4}$	16	9 $\frac{7}{8}$
4	4 $\frac{1}{2}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$	4	8 $\frac{7}{8}$	15	5	5	2 $\frac{1}{2}$	16	10 $\frac{3}{8}$
4	4 $\frac{5}{8}$	14	3 $\frac{1}{2}$ - $\frac{1}{16}$	4	9	15	5 $\frac{3}{8}$	5	2 $\frac{3}{4}$	16	11 $\frac{3}{8}$
4	4 $\frac{3}{4}$	14	4	4	9 $\frac{1}{8}$	15	5 $\frac{3}{4}$	5	3	17	0 $\frac{1}{8}$ - $\frac{1}{16}$
4	4 $\frac{7}{8}$	14	4 $\frac{3}{8}$	4	9 $\frac{1}{4}$	15	6 $\frac{1}{8}$	5	3 $\frac{1}{4}$	17	1
4	5	14	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	9 $\frac{3}{8}$	15	6 $\frac{1}{2}$	5	3 $\frac{1}{2}$	17	1 $\frac{3}{4}$ - $\frac{1}{16}$
4	5 $\frac{1}{8}$	14	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	9 $\frac{1}{2}$	15	6 $\frac{7}{8}$	5	3 $\frac{3}{4}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$
4	5 $\frac{1}{4}$	14	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	9 $\frac{5}{8}$	15	7 $\frac{1}{4}$ - $\frac{1}{16}$	5	4	17	3 $\frac{3}{8}$
4	5 $\frac{3}{8}$	14	6	4	9 $\frac{3}{4}$	15	7 $\frac{5}{8}$ - $\frac{1}{16}$	5	4 $\frac{1}{4}$	17	4 $\frac{1}{8}$
4	5 $\frac{1}{2}$	14	6 $\frac{3}{8}$	4	9 $\frac{7}{8}$	15	8 $\frac{1}{8}$	5	4 $\frac{1}{2}$	17	4 $\frac{7}{8}$
4	5 $\frac{5}{8}$	14	6 $\frac{3}{4}$	4	10	15	8 $\frac{1}{2}$	5	4 $\frac{3}{4}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$
4	5 $\frac{3}{4}$	14	7 $\frac{1}{8}$	4	10 $\frac{1}{8}$	15	8 $\frac{7}{8}$	5	5	17	6 $\frac{1}{2}$
4	5 $\frac{7}{8}$	14	7 $\frac{1}{2}$	4	10 $\frac{1}{4}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$	5	5 $\frac{1}{4}$	17	7 $\frac{1}{4}$
4	6	14	7 $\frac{7}{8}$	4	10 $\frac{3}{8}$	15	9 $\frac{5}{8}$ - $\frac{1}{16}$	5	5 $\frac{1}{2}$	17	8 $\frac{1}{8}$
4	6 $\frac{1}{8}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$	4	10 $\frac{1}{2}$	15	10 $\frac{1}{16}$	5	5 $\frac{3}{4}$	17	8 $\frac{7}{8}$
4	6 $\frac{1}{4}$	14	8 $\frac{3}{8}$ - $\frac{1}{16}$	4	10 $\frac{5}{8}$	15	10 $\frac{1}{2}$	5	6	17	9 $\frac{5}{8}$
4	6 $\frac{3}{8}$	14	9 $\frac{1}{8}$	4	10 $\frac{3}{4}$	15	10 $\frac{7}{8}$	5	6 $\frac{1}{4}$	17	10 $\frac{3}{8}$
4	6 $\frac{1}{2}$	14	9 $\frac{1}{2}$	4	10 $\frac{7}{8}$	15	11 $\frac{1}{4}$	5	6 $\frac{1}{2}$	17	11 $\frac{1}{8}$ - $\frac{1}{16}$
4	6 $\frac{3}{8}$	14	9 $\frac{7}{8}$	4	11	15	11 $\frac{5}{8}$	5	6 $\frac{3}{4}$	18	0
4	6 $\frac{3}{4}$	14	10 $\frac{1}{4}$	4	11 $\frac{1}{8}$	16	0	5	7	18	0 $\frac{3}{4}$ - $\frac{1}{16}$
4	6 $\frac{7}{8}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$	4	11 $\frac{1}{4}$	16	0 $\frac{3}{8}$	5	7 $\frac{1}{4}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$
4	7	14	11 $\frac{1}{8}$	4	11 $\frac{3}{8}$	16	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	7 $\frac{1}{2}$	18	2 $\frac{1}{4}$ - $\frac{1}{16}$
4	7 $\frac{1}{8}$	14	11 $\frac{1}{2}$	4	11 $\frac{1}{2}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$	5	7 $\frac{3}{4}$	18	3 $\frac{1}{8}$
4	7 $\frac{1}{4}$	14	11 $\frac{7}{8}$	4	11 $\frac{5}{8}$	16	1 $\frac{1}{2}$ - $\frac{1}{16}$	5	8	18	3 $\frac{7}{8}$
4	7 $\frac{3}{8}$	15	0 $\frac{1}{4}$	4	11 $\frac{3}{4}$	16	2	5	8 $\frac{1}{4}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$
4	7 $\frac{1}{2}$	15	0 $\frac{5}{8}$	4	11 $\frac{7}{8}$	16	2 $\frac{3}{8}$	5	8 $\frac{1}{2}$	18	5 $\frac{1}{2}$
4	7 $\frac{5}{8}$	15	1	5	0	16	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	8 $\frac{3}{4}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$

## DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	9	18	$7\frac{1}{16}$	6	$5\frac{3}{4}$	20	$10\frac{1}{2}$	7	$2\frac{1}{2}$	23	2
5	$9\frac{1}{4}$	18	$7\frac{3}{4}-\frac{1}{16}$	6	6	20	$11\frac{1}{4}-\frac{1}{16}$	7	$2\frac{3}{4}$	23	$2\frac{3}{4}-\frac{1}{16}$
5	$9\frac{1}{2}$	18	$8\frac{1}{2}-\frac{1}{16}$	6	$6\frac{1}{4}$	21	$0\frac{1}{8}$	7	3	23	$3\frac{1}{2}-\frac{1}{16}$
5	$9\frac{3}{4}$	18	$9\frac{3}{8}$	6	$6\frac{1}{2}$	21	$0\frac{1}{8}$	7	$3\frac{1}{4}$	23	$4\frac{3}{8}$
5	10	18	$10\frac{1}{8}-\frac{1}{16}$	6	$6\frac{3}{4}$	21	$1\frac{5}{8}-\frac{1}{16}$	7	$3\frac{1}{2}$	23	$5\frac{1}{8}-\frac{1}{16}$
5	$10\frac{1}{4}$	18	11	6	7	21	$2\frac{1}{2}$	7	$3\frac{3}{4}$	23	6
5	$10\frac{1}{2}$	18	$11\frac{3}{4}-\frac{1}{16}$	6	$7\frac{1}{4}$	21	$3\frac{1}{4}$	7	4	23	$6\frac{3}{4}$
5	$10\frac{3}{4}$	19	$0\frac{1}{2}-\frac{1}{16}$	6	$7\frac{1}{2}$	21	4	7	$4\frac{1}{4}$	23	$7\frac{1}{2}$
5	11	19	$1\frac{1}{4}-\frac{1}{16}$	6	$7\frac{3}{4}$	21	$4\frac{3}{4}-\frac{1}{16}$	7	$4\frac{1}{2}$	23	$8\frac{1}{4}-\frac{1}{16}$
5	$11\frac{1}{4}$	19	$2\frac{1}{8}$	6	8	21	$5\frac{1}{2}-\frac{1}{16}$	7	$4\frac{3}{4}$	23	$9\frac{1}{16}$
5	$11\frac{1}{2}$	19	$2\frac{7}{8}$	6	$8\frac{1}{4}$	21	$6\frac{3}{8}$	7	5	23	$9\frac{7}{8}$
5	$11\frac{3}{4}$	19	$3\frac{5}{8}-\frac{1}{16}$	6	$8\frac{1}{2}$	21	$7\frac{1}{8}-\frac{1}{16}$	7	$5\frac{1}{4}$	23	$10\frac{5}{8}-\frac{1}{16}$
6	0	19	$4\frac{1}{2}$	6	$8\frac{3}{4}$	21	8	7	$5\frac{1}{2}$	23	$11\frac{3}{8}-\frac{1}{16}$
6	$0\frac{1}{4}$	19	$5\frac{1}{4}-\frac{1}{16}$	6	9	21	$8\frac{3}{4}$	7	$5\frac{3}{4}$	24	$0\frac{1}{8}-\frac{1}{16}$
6	$0\frac{1}{2}$	19	$6\frac{1}{16}$	6	$9\frac{1}{4}$	21	$9\frac{1}{2}$	7	6	24	1
6	$0\frac{3}{4}$	19	$6\frac{3}{4}-\frac{1}{16}$	6	$9\frac{1}{2}$	21	$10\frac{1}{4}-\frac{1}{16}$	7	$6\frac{1}{4}$	24	$1\frac{3}{4}-\frac{1}{16}$
6	1	19	$7\frac{1}{2}-\frac{1}{16}$	6	$9\frac{3}{4}$	21	$11\frac{1}{8}$	7	$6\frac{1}{2}$	24	$2\frac{1}{2}-\frac{1}{16}$
6	$1\frac{1}{4}$	19	$8\frac{3}{8}$	6	10	21	$11\frac{7}{8}$	7	$6\frac{3}{4}$	24	$3\frac{3}{8}$
6	$1\frac{1}{2}$	19	$9\frac{1}{8}-\frac{1}{16}$	6	$10\frac{1}{4}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	7	24	$4\frac{1}{8}-\frac{1}{16}$
6	$1\frac{3}{4}$	19	10	6	$10\frac{1}{2}$	22	$1\frac{1}{2}$	7	$7\frac{1}{4}$	24	5
6	2	19	$10\frac{3}{4}-\frac{1}{16}$	6	$10\frac{3}{4}$	22	$2\frac{1}{4}$	7	$7\frac{1}{2}$	24	$5\frac{3}{4}$
6	$2\frac{1}{4}$	19	$11\frac{1}{2}-\frac{1}{16}$	6	11	22	3	7	$7\frac{3}{4}$	24	$6\frac{1}{2}$
6	$2\frac{1}{2}$	20	$0\frac{1}{4}-\frac{1}{16}$	6	$11\frac{1}{4}$	22	$3\frac{3}{4}-\frac{1}{16}$	7	8	24	$7\frac{1}{4}-\frac{1}{16}$
6	$2\frac{3}{4}$	20	$1\frac{1}{8}$	6	$11\frac{1}{2}$	22	$4\frac{1}{2}-\frac{1}{16}$	7	$8\frac{1}{4}$	24	$8\frac{1}{8}$
6	3	20	$1\frac{7}{8}$	6	$11\frac{3}{4}$	22	$5\frac{3}{8}$	7	$8\frac{1}{2}$	24	$8\frac{7}{8}$
6	$3\frac{1}{4}$	20	$2\frac{5}{8}-\frac{1}{16}$	7	0	22	$6\frac{1}{8}-\frac{1}{16}$	7	$8\frac{3}{4}$	24	$9\frac{5}{8}-\frac{1}{16}$
6	$3\frac{1}{2}$	20	$3\frac{1}{2}$	7	$0\frac{1}{4}$	22	7	7	9	24	$10\frac{3}{8}-\frac{1}{16}$
6	$3\frac{3}{4}$	20	$4\frac{1}{4}-\frac{1}{16}$	7	$0\frac{1}{2}$	22	$7\frac{3}{4}$	7	$9\frac{1}{4}$	24	$11\frac{1}{8}-\frac{1}{16}$
6	4	20	$5\frac{1}{16}$	7	$0\frac{3}{4}$	22	$8\frac{1}{2}$	7	$9\frac{1}{2}$	25	0
6	$4\frac{1}{4}$	20	$5\frac{3}{4}-\frac{1}{16}$	7	1	22	$9\frac{1}{4}-\frac{1}{16}$	7	$9\frac{3}{4}$	25	$0\frac{3}{4}-\frac{1}{16}$
6	$4\frac{1}{2}$	20	$6\frac{1}{2}-\frac{1}{16}$	7	$1\frac{1}{4}$	22	$10\frac{1}{8}$	7	10	25	$1\frac{1}{2}-\frac{1}{16}$
6	$4\frac{3}{4}$	20	$7\frac{3}{8}$	7	$1\frac{1}{2}$	22	$10\frac{7}{8}$	7	$10\frac{1}{4}$	25	$2\frac{3}{8}$
6	5	20	$8\frac{1}{8}-\frac{1}{16}$	7	$1\frac{3}{4}$	22	$11\frac{5}{8}-\frac{1}{16}$	7	$10\frac{1}{2}$	25	$3\frac{1}{8}-\frac{1}{16}$
6	$5\frac{1}{4}$	20	9	7	2	23	$0\frac{1}{2}$	7	$10\frac{3}{4}$	25	$3\frac{7}{8}-\frac{1}{16}$
6	$5\frac{1}{2}$	20	$9\frac{3}{4}$	7	$2\frac{1}{4}$	23	$1\frac{1}{4}$	7	11	25	$4\frac{5}{8}-\frac{1}{16}$

# ANGLE-IRON RINGS (FLANGE OUTSIDE). 111

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	11 $\frac{1}{4}$	25	5 $\frac{1}{2}$	8	8	27	9	9	4 $\frac{3}{4}$	30	0 $\frac{3}{8}$ - $\frac{1}{16}$
7	11 $\frac{1}{2}$	25	6 $\frac{1}{4}$ - $\frac{1}{16}$	8	8 $\frac{1}{4}$	27	9 $\frac{3}{4}$	9	5	30	1 $\frac{1}{4}$
7	11 $\frac{3}{4}$	25	7 $\frac{1}{8}$	8	8 $\frac{1}{2}$	27	10 $\frac{1}{2}$	9	5 $\frac{1}{4}$	30	2
8	0	25	7 $\frac{7}{8}$	8	8 $\frac{3}{4}$	27	11 $\frac{1}{4}$ - $\frac{1}{16}$	9	5 $\frac{1}{2}$	30	2 $\frac{3}{4}$ - $\frac{1}{16}$
8	0 $\frac{1}{4}$	25	8 $\frac{5}{8}$ - $\frac{1}{16}$	8	9	28	0 $\frac{1}{8}$	9	5 $\frac{3}{4}$	30	3 $\frac{5}{8}$
8	0 $\frac{1}{2}$	25	9 $\frac{3}{8}$ - $\frac{1}{16}$	8	9 $\frac{1}{4}$	28	0 $\frac{1}{8}$	9	6	30	4 $\frac{3}{8}$
8	0 $\frac{3}{4}$	25	10 $\frac{1}{8}$ - $\frac{1}{16}$	8	9 $\frac{1}{2}$	28	1 $\frac{5}{8}$ - $\frac{1}{16}$	9	6 $\frac{1}{4}$	30	5 $\frac{1}{8}$ - $\frac{1}{16}$
8	1	25	11	8	9 $\frac{3}{4}$	28	2 $\frac{1}{2}$	9	6 $\frac{1}{2}$	30	6
8	1 $\frac{1}{4}$	25	11 $\frac{3}{4}$ - $\frac{1}{16}$	8	10	28	3 $\frac{1}{4}$	9	6 $\frac{3}{4}$	30	6 $\frac{3}{4}$
8	1 $\frac{1}{2}$	26	0 $\frac{1}{2}$ - $\frac{1}{16}$	8	10 $\frac{1}{4}$	28	4	9	7	30	7 $\frac{1}{2}$
8	1 $\frac{3}{4}$	26	1 $\frac{3}{8}$	8	10 $\frac{1}{2}$	28	4 $\frac{7}{8}$	9	7 $\frac{1}{4}$	30	8 $\frac{1}{4}$ - $\frac{1}{16}$
8	2	26	2 $\frac{1}{8}$ - $\frac{1}{16}$	8	10 $\frac{3}{4}$	28	5 $\frac{5}{8}$	9	7 $\frac{1}{2}$	30	9 $\frac{1}{8}$
8	2 $\frac{1}{4}$	26	2 $\frac{7}{8}$ - $\frac{1}{16}$	8	11	28	6 $\frac{3}{8}$	9	7 $\frac{3}{4}$	30	9 $\frac{7}{8}$
8	2 $\frac{1}{2}$	26	3 $\frac{5}{8}$ - $\frac{1}{16}$	8	11 $\frac{1}{4}$	28	7 $\frac{1}{8}$ - $\frac{1}{16}$	9	8	30	10 $\frac{5}{8}$ - $\frac{1}{16}$
8	2 $\frac{3}{4}$	26	4 $\frac{1}{2}$	8	11 $\frac{1}{2}$	28	8	9	8 $\frac{1}{4}$	30	11 $\frac{3}{8}$ - $\frac{1}{16}$
8	3	26	5 $\frac{1}{4}$ - $\frac{1}{16}$	8	11 $\frac{3}{4}$	28	8 $\frac{3}{4}$	9	8 $\frac{1}{2}$	31	0 $\frac{1}{4}$
8	3 $\frac{1}{4}$	26	6 $\frac{1}{16}$	9	0	28	9 $\frac{1}{2}$	9	8 $\frac{3}{4}$	31	1
8	3 $\frac{1}{2}$	26	6 $\frac{3}{4}$ - $\frac{1}{16}$	9	0 $\frac{1}{4}$	28	10 $\frac{1}{4}$ - $\frac{1}{16}$	9	9	31	1 $\frac{1}{4}$ - $\frac{1}{16}$
8	3 $\frac{3}{4}$	26	7 $\frac{5}{8}$	9	0 $\frac{1}{2}$	28	11 $\frac{1}{8}$	9	9 $\frac{1}{4}$	31	2 $\frac{5}{8}$
8	4	26	8 $\frac{3}{8}$ - $\frac{1}{16}$	9	0 $\frac{3}{4}$	28	11 $\frac{7}{8}$	9	9 $\frac{1}{2}$	31	3 $\frac{3}{8}$
8	4 $\frac{1}{4}$	26	9 $\frac{1}{8}$ - $\frac{1}{16}$	9	1	29	0 $\frac{5}{8}$ - $\frac{1}{16}$	9	9 $\frac{3}{4}$	31	4 $\frac{1}{8}$
8	4 $\frac{1}{2}$	26	10	9	1 $\frac{1}{4}$	29	1 $\frac{1}{2}$	9	10	31	5
8	4 $\frac{3}{4}$	26	10 $\frac{3}{4}$	9	1 $\frac{1}{2}$	29	2 $\frac{1}{4}$	9	10 $\frac{1}{4}$	31	5 $\frac{3}{4}$
8	5	26	11 $\frac{1}{2}$ - $\frac{1}{16}$	9	1 $\frac{3}{4}$	29	3	9	10 $\frac{1}{2}$	31	6 $\frac{1}{2}$
8	5 $\frac{1}{4}$	27	0 $\frac{1}{4}$ - $\frac{1}{16}$	9	2	29	3 $\frac{3}{4}$	9	10 $\frac{3}{4}$	31	7 $\frac{1}{4}$ - $\frac{1}{16}$
8	5 $\frac{1}{2}$	27	1 $\frac{1}{16}$	9	2 $\frac{1}{4}$	29	4 $\frac{5}{8}$	9	11	31	8 $\frac{1}{8}$
8	5 $\frac{3}{4}$	27	1 $\frac{7}{8}$ - $\frac{1}{16}$	9	2 $\frac{1}{2}$	29	5 $\frac{3}{8}$	9	11 $\frac{1}{4}$	31	8 $\frac{7}{8}$
8	6	27	2 $\frac{5}{8}$ - $\frac{1}{16}$	9	2 $\frac{3}{4}$	29	6 $\frac{1}{8}$ - $\frac{1}{16}$	9	11 $\frac{1}{2}$	31	9 $\frac{5}{8}$ - $\frac{1}{16}$
8	6 $\frac{1}{4}$	27	3 $\frac{1}{2}$	9	3	29	7	9	11 $\frac{3}{4}$	31	10 $\frac{3}{8}$ - $\frac{1}{16}$
8	6 $\frac{1}{2}$	27	4 $\frac{1}{4}$	9	3 $\frac{1}{4}$	29	7 $\frac{3}{4}$	10	0	31	11 $\frac{1}{4}$
8	6 $\frac{3}{4}$	27	5 $\frac{1}{16}$	9	3 $\frac{1}{2}$	29	8 $\frac{1}{2}$ - $\frac{1}{16}$	10	0 $\frac{1}{4}$	32	0
8	7	27	5 $\frac{3}{4}$ - $\frac{1}{16}$	9	3 $\frac{3}{4}$	29	9 $\frac{1}{4}$ - $\frac{1}{16}$	10	0 $\frac{1}{2}$	2	0 $\frac{3}{4}$ - $\frac{1}{16}$
8	7 $\frac{1}{4}$	27	6 $\frac{5}{8}$	9	4	29	10 $\frac{1}{8}$	10	0 $\frac{3}{4}$	32	1 $\frac{5}{8}$
8	7 $\frac{1}{2}$	27	7 $\frac{3}{8}$ - $\frac{1}{16}$	9	4 $\frac{1}{4}$	29	10 $\frac{7}{8}$	10	1	32	2 $\frac{3}{8}$
8	7 $\frac{3}{4}$	27	8 $\frac{1}{8}$ - $\frac{1}{16}$	9	4 $\frac{1}{2}$	29	11 $\frac{5}{8}$ - $\frac{1}{16}$	10	1 $\frac{1}{4}$	32	3 $\frac{1}{8}$ - $\frac{1}{16}$

# 112      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	1½	32	37 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	10¼	34	7 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	7	36	10 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
10	1¾	32	4¾	10	10½	34	8¼	11	7¼	36	11¾
10	2	32	5½	10	10¾	34	9	11	7½	37	0½
10	2¼	32	6¼- <sup>1</sup> / <sub>16</sub>	10	11	34	9¾- <sup>1</sup> / <sub>16</sub>	11	7¾	37	1¼- <sup>1</sup> / <sub>16</sub>
10	2½	32	7 <sup>1</sup> / <sub>8</sub>	10	11¼	34	10½- <sup>1</sup> / <sub>16</sub>	11	8	37	2 <sup>1</sup> / <sub>16</sub>
10	2¾	32	7 <sup>7</sup> / <sub>8</sub>	10	11½	34	11 <sup>3</sup> / <sub>8</sub>	11	8¼	37	2 <sup>7</sup> / <sub>8</sub>
10	3	32	8 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	11¾	35	0 <sup>1</sup> / <sub>8</sub>	11	8½	37	3 <sup>5</sup> / <sub>8</sub>
10	3¼	32	9 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	0	35	0 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	8¾	37	4 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
10	3½	32	10¼	11	0¼	35	1¾	11	9	37	5¼
10	3¾	32	11	11	0½	35	2½	11	9¼	37	6
10	4	32	11¾- <sup>1</sup> / <sub>16</sub>	11	0¾	35	3¼- <sup>1</sup> / <sub>16</sub>	11	9½	37	6¾
10	4¼	33	0 <sup>5</sup> / <sub>8</sub>	11	1	35	4 <sup>1</sup> / <sub>16</sub>	11	9¾	37	7½- <sup>1</sup> / <sub>16</sub>
10	4½	33	1 <sup>3</sup> / <sub>8</sub>	11	1¼	35	4 <sup>7</sup> / <sub>8</sub>	11	10	37	8 <sup>3</sup> / <sub>8</sub>
10	4¾	33	2 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	1½	35	5 <sup>5</sup> / <sub>8</sub>	11	10¼	37	9 <sup>1</sup> / <sub>8</sub>
10	5	33	3	11	1¾	35	6 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	10½	37	9 <sup>7</sup> / <sub>8</sub>
10	5¼	33	3¾	11	2	35	7¼	11	10¾	37	10¾
10	5½	33	4½	11	2¼	35	8	11	11	37	11½
10	5¾	33	5¼- <sup>1</sup> / <sub>16</sub>	11	2½	35	8¾- <sup>1</sup> / <sub>16</sub>	11	11¼	38	0¼- <sup>1</sup> / <sub>16</sub>
10	6	33	6 <sup>1</sup> / <sub>16</sub>	11	2¾	35	9½- <sup>1</sup> / <sub>16</sub>	11	11½	38	1 <sup>8</sup> / <sub>8</sub>
10	6¼	33	6 <sup>7</sup> / <sub>8</sub>	11	3	35	10 <sup>3</sup> / <sub>8</sub>	11	11¾	38	1 <sup>7</sup> / <sub>8</sub>
10	6½	33	7 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	3¼	35	11 <sup>1</sup> / <sub>8</sub>	12	0	38	2 <sup>5</sup> / <sub>8</sub>
10	6¾	33	8 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	3½	35	11 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	12	0¼	38	3 <sup>3</sup> / <sub>8</sub>
10	7	33	9¼	11	3¾	36	0 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	12	0½	38	4 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
10	7¼	33	10	11	4	36	1½	12	0¾	38	5
10	7½	33	10¾- <sup>1</sup> / <sub>16</sub>	11	4¼	36	2¼- <sup>1</sup> / <sub>16</sub>	12	1	38	5¾- <sup>1</sup> / <sub>16</sub>
10	7¾	33	11½- <sup>1</sup> / <sub>16</sub>	11	4½	36	3 <sup>1</sup> / <sub>16</sub>	12	1¼	38	6 <sup>5</sup> / <sub>8</sub>
10	8	34	0 <sup>3</sup> / <sub>8</sub>	11	4¾	36	3 <sup>7</sup> / <sub>8</sub>	12	1½	38	7 <sup>3</sup> / <sub>8</sub>
10	8¼	34	1 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	5	36	4 <sup>5</sup> / <sub>8</sub>	12	1¾	38	8 <sup>1</sup> / <sub>8</sub>
10	8½	34	1 <sup>7</sup> / <sub>8</sub>	11	5¼	36	5 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	12	2	38	8 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
10	8¾	34	2¾	11	5½	36	6¼	12	2¼	38	9¾
10	9	34	3½	11	5¾	36	7	12	2½	38	10½
10	9¼	34	4¼- <sup>1</sup> / <sub>16</sub>	11	6	36	7¾- <sup>1</sup> / <sub>16</sub>	12	2¾	38	11¼
10	9½	34	5 <sup>1</sup> / <sub>16</sub>	11	6¼	36	8½- <sup>1</sup> / <sub>16</sub>	12	3	39	0 <sup>1</sup> / <sub>16</sub>
10	9¾	34	5 <sup>7</sup> / <sub>8</sub>	11	6½	36	9 <sup>3</sup> / <sub>8</sub>	12	3¼	39	0 <sup>7</sup> / <sub>8</sub>
10	10	34	6 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	6¾	36	10 <sup>1</sup> / <sub>8</sub>	12	3½	39	1 <sup>5</sup> / <sub>8</sub>

# ANGLE-IRON RINGS (FLANGE OUTSIDE). 113

## DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	3 $\frac{3}{4}$	39	2 $\frac{3}{8}$ - $\frac{1}{16}$	12	6 $\frac{3}{4}$	39	11 $\frac{3}{4}$ - $\frac{1}{16}$	12	9 $\frac{3}{4}$	40	9 $\frac{1}{4}$ - $\frac{1}{16}$
12	4	39	3 $\frac{1}{4}$	12	7	40	0 $\frac{5}{8}$	12	10	40	10 $\frac{1}{16}$
12	4 $\frac{1}{4}$	39	4	12	7 $\frac{1}{4}$	40	1 $\frac{3}{8}$ - $\frac{1}{16}$	12	10 $\frac{1}{4}$	40	10 $\frac{7}{8}$
12	4 $\frac{1}{2}$	39	4 $\frac{3}{4}$ - $\frac{1}{16}$	12	7 $\frac{1}{2}$	40	2 $\frac{1}{8}$ - $\frac{1}{16}$	12	10 $\frac{1}{2}$	40	11 $\frac{5}{8}$ - $\frac{1}{16}$
12	4 $\frac{3}{4}$	39	5 $\frac{1}{2}$ - $\frac{1}{16}$	12	7 $\frac{3}{4}$	40	2 $\frac{7}{8}$ - $\frac{1}{16}$	12	10 $\frac{3}{4}$	41	0 $\frac{3}{8}$ - $\frac{1}{16}$
12	5	39	6 $\frac{3}{8}$	12	8	40	3 $\frac{3}{4}$ - $\frac{1}{16}$	12	11	41	1 $\frac{1}{4}$
12	5 $\frac{1}{4}$	39	7 $\frac{1}{8}$	12	8 $\frac{1}{4}$	40	4 $\frac{1}{2}$ - $\frac{1}{16}$	12	11 $\frac{1}{4}$	41	2 $\frac{1}{16}$
12	5 $\frac{1}{2}$	39	7 $\frac{7}{8}$ - $\frac{1}{16}$	12	8 $\frac{1}{2}$	40	5 $\frac{1}{4}$ - $\frac{1}{16}$	12	11 $\frac{1}{2}$	41	2 $\frac{7}{8}$
12	5 $\frac{3}{4}$	39	8 $\frac{5}{8}$ - $\frac{1}{16}$	12	8 $\frac{3}{4}$	40	6 $\frac{1}{8}$	12	11 $\frac{3}{4}$	41	3 $\frac{5}{8}$
12	6	39	9 $\frac{1}{2}$	12	9	40	6 $\frac{7}{8}$ - $\frac{1}{16}$	13	0	41	4 $\frac{3}{8}$
12	6 $\frac{1}{4}$	39	10 $\frac{1}{4}$ - $\frac{1}{16}$	12	9 $\frac{1}{4}$	40	7 $\frac{3}{4}$				
12	6 $\frac{1}{2}$	39	11 $\frac{1}{16}$	12	9 $\frac{1}{2}$	40	8 $\frac{1}{2}$				

## DIAGONAL MEASUREMENT AT THE ROOT, 1 $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	8 $\frac{3}{4}$	1	1 $\frac{7}{8}$	4	2 $\frac{5}{8}$	1	3 $\frac{3}{4}$	4	8 $\frac{1}{2}$
1	0 $\frac{1}{8}$	3	9 $\frac{1}{8}$	1	2	4	3 $\frac{1}{16}$	1	3 $\frac{7}{8}$	4	8 $\frac{7}{8}$ - $\frac{1}{16}$
1	0 $\frac{1}{4}$	3	9 $\frac{1}{2}$ - $\frac{1}{16}$	1	2 $\frac{1}{8}$	4	3 $\frac{3}{8}$ - $\frac{1}{16}$	1	4	4	9 $\frac{1}{4}$ - $\frac{1}{16}$
1	0 $\frac{3}{8}$	3	9 $\frac{7}{8}$ - $\frac{1}{16}$	1	2 $\frac{1}{4}$	4	3 $\frac{3}{4}$ - $\frac{1}{16}$	1	4 $\frac{1}{8}$	4	9 $\frac{5}{8}$ - $\frac{1}{16}$
1	0 $\frac{1}{2}$	3	10 $\frac{1}{4}$ - $\frac{1}{16}$	1	2 $\frac{3}{8}$	4	4 $\frac{1}{8}$ - $\frac{1}{16}$	1	4 $\frac{1}{4}$	4	10 $\frac{1}{16}$
1	0 $\frac{5}{8}$	3	10 $\frac{5}{8}$ - $\frac{1}{16}$	1	2 $\frac{1}{2}$	4	4 $\frac{1}{2}$ - $\frac{1}{16}$	1	4 $\frac{3}{8}$	4	10 $\frac{1}{2}$
1	0 $\frac{3}{4}$	3	11 $\frac{1}{16}$	1	2 $\frac{5}{8}$	4	5	1	4 $\frac{1}{2}$	4	10 $\frac{7}{8}$
1	0 $\frac{7}{8}$	3	11 $\frac{1}{2}$	1	2 $\frac{3}{4}$	4	5 $\frac{3}{8}$	1	4 $\frac{5}{8}$	4	11 $\frac{1}{4}$
1	1	3	11 $\frac{7}{8}$	1	2 $\frac{7}{8}$	4	5 $\frac{3}{4}$ - $\frac{1}{16}$	1	4 $\frac{3}{4}$	4	11 $\frac{5}{8}$ - $\frac{1}{16}$
1	1 $\frac{1}{8}$	4	0 $\frac{1}{4}$	1	3	4	6 $\frac{1}{8}$ - $\frac{1}{16}$	1	4 $\frac{7}{8}$	5	0 $\frac{1}{16}$
1	1 $\frac{1}{4}$	4	0 $\frac{5}{8}$ - $\frac{1}{16}$	1	3 $\frac{1}{8}$	4	6 $\frac{1}{2}$ - $\frac{1}{16}$	1	5	5	0 $\frac{3}{8}$ - $\frac{1}{16}$
1	1 $\frac{3}{8}$	4	1 $\frac{1}{16}$	1	3 $\frac{1}{4}$	4	6 $\frac{7}{8}$ - $\frac{1}{16}$	1	5 $\frac{1}{8}$	5	0 $\frac{3}{4}$ - $\frac{1}{16}$
1	1 $\frac{1}{2}$	4	1 $\frac{3}{8}$ - $\frac{1}{16}$	1	3 $\frac{3}{8}$	4	7 $\frac{1}{4}$ - $\frac{1}{16}$	1	5 $\frac{1}{4}$	5	1 $\frac{1}{4}$
1	1 $\frac{5}{8}$	4	1 $\frac{3}{4}$ - $\frac{1}{16}$	1	3 $\frac{1}{2}$	4	7 $\frac{3}{4}$	1	5 $\frac{3}{8}$	5	1 $\frac{5}{8}$
1	1 $\frac{3}{4}$	4	2 $\frac{1}{4}$	1	3 $\frac{5}{8}$	4	8 $\frac{1}{8}$	1	5 $\frac{1}{2}$	5	2

# 114 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$5\frac{5}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	1	10	6	$4\frac{1}{8}$	2	$2\frac{3}{8}$	7	$5\frac{7}{8}$
1	$5\frac{3}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$2\frac{1}{2}$	7	$6\frac{1}{4}-\frac{1}{16}$
1	$5\frac{7}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	1	$10\frac{1}{4}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$2\frac{5}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$
1	6	5	$3\frac{1}{2}-\frac{1}{16}$	1	$10\frac{3}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$	2	$2\frac{3}{4}$	7	$7\frac{1}{16}$
1	$6\frac{1}{8}$	5	4	1	$10\frac{1}{2}$	6	$5\frac{3}{4}$	2	$2\frac{7}{8}$	7	$7\frac{3}{8}-\frac{1}{16}$
1	$6\frac{1}{4}$	5	$4\frac{3}{8}$	1	$10\frac{5}{8}$	6	$6\frac{1}{8}$	2	3	7	$7\frac{7}{8}$
1	$6\frac{3}{8}$	5	$4\frac{3}{4}$	1	$10\frac{3}{4}$	6	$6\frac{1}{2}$	2	$3\frac{1}{8}$	7	$8\frac{1}{4}$
1	$6\frac{1}{2}$	5	$5\frac{1}{8}-\frac{1}{16}$	1	$10\frac{7}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	$3\frac{1}{4}$	7	$8\frac{5}{8}$
1	$6\frac{5}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	1	11	6	$7\frac{1}{4}-\frac{1}{16}$	2	$3\frac{3}{8}$	7	$9\frac{1}{16}$
1	$6\frac{3}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$	1	$11\frac{1}{8}$	6	$7\frac{3}{4}$	2	$3\frac{1}{2}$	7	$9\frac{3}{8}-\frac{1}{16}$
1	$6\frac{7}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	1	$11\frac{1}{4}$	6	$8\frac{1}{8}$	2	$3\frac{5}{8}$	7	$9\frac{3}{4}-\frac{1}{16}$
1	7	5	$6\frac{3}{4}$	1	$11\frac{3}{8}$	6	$8\frac{1}{2}$	2	$3\frac{3}{4}$	7	$10\frac{1}{4}$
1	$7\frac{1}{8}$	5	$7\frac{1}{8}$	1	$11\frac{1}{2}$	6	$8\frac{7}{8}$	2	$3\frac{7}{8}$	7	$10\frac{5}{8}$
1	$7\frac{1}{4}$	5	$7\frac{1}{2}$	1	$11\frac{5}{8}$	6	$9\frac{1}{4}$	2	4	7	11
1	$7\frac{3}{8}$	5	$7\frac{7}{8}$	1	$11\frac{3}{4}$	6	$9\frac{5}{8}-\frac{1}{16}$	2	$4\frac{1}{8}$	7	$11\frac{3}{8}$
1	$7\frac{1}{2}$	5	$8\frac{1}{4}-\frac{1}{16}$	1	$11\frac{7}{8}$	6	$10\frac{1}{16}$	2	$4\frac{1}{4}$	7	$11\frac{3}{4}-\frac{1}{16}$
1	$7\frac{5}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	0	6	$10\frac{3}{8}-\frac{1}{16}$	2	$4\frac{3}{8}$	8	$0\frac{1}{8}-\frac{1}{16}$
1	$7\frac{3}{4}$	5	$9\frac{1}{16}$	2	$0\frac{1}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$	2	$4\frac{1}{2}$	8	$0\frac{1}{2}-\frac{1}{16}$
1	$7\frac{7}{8}$	5	$9\frac{1}{2}$	2	$0\frac{1}{4}$	6	$11\frac{1}{4}$	2	$4\frac{5}{8}$	8	1
1	8	5	$9\frac{7}{8}$	2	$0\frac{3}{8}$	6	$11\frac{5}{8}$	2	$4\frac{3}{4}$	8	$1\frac{3}{8}$
1	$8\frac{1}{8}$	5	$10\frac{1}{4}$	2	$0\frac{1}{2}$	7	0	2	$4\frac{7}{8}$	8	$1\frac{3}{4}-\frac{1}{16}$
1	$8\frac{1}{4}$	5	$10\frac{3}{8}$	2	$0\frac{3}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	5	8	$2\frac{1}{8}-\frac{1}{16}$
1	$8\frac{3}{8}$	5	$11\frac{1}{16}$	2	$0\frac{3}{4}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	$5\frac{1}{8}$	8	$2\frac{1}{2}-\frac{1}{16}$
1	$8\frac{1}{2}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$0\frac{7}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	$5\frac{1}{4}$	8	3
1	$8\frac{5}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	1	7	$1\frac{1}{2}-\frac{1}{16}$	2	$5\frac{3}{8}$	8	$3\frac{3}{8}$
1	$8\frac{3}{4}$	6	$0\frac{1}{4}$	2	$1\frac{1}{8}$	7	2	2	$5\frac{1}{2}$	8	$3\frac{3}{4}$
1	$8\frac{7}{8}$	6	$0\frac{5}{8}$	2	$1\frac{1}{4}$	7	$2\frac{3}{8}$	2	$5\frac{5}{8}$	8	$4\frac{1}{8}$
1	9	6	1	2	$1\frac{3}{8}$	7	$2\frac{3}{4}$	2	$5\frac{3}{4}$	8	$4\frac{1}{2}$
1	$9\frac{1}{8}$	6	$1\frac{3}{8}$	2	$1\frac{1}{2}$	7	$3\frac{1}{8}$	2	$5\frac{7}{8}$	8	$4\frac{7}{8}$
1	$9\frac{1}{4}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	$1\frac{5}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	6	8	$5\frac{1}{4}-\frac{1}{16}$
1	$9\frac{3}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	$1\frac{3}{4}$	7	$3\frac{7}{8}-\frac{1}{16}$	2	$6\frac{1}{8}$	8	$5\frac{5}{8}-\frac{1}{16}$
1	$9\frac{1}{2}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$1\frac{7}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$	2	$6\frac{1}{4}$	8	$6\frac{1}{16}$
1	$9\frac{5}{8}$	6	3	2	2	7	$4\frac{3}{4}$	2	$6\frac{3}{8}$	8	$6\frac{1}{2}$
1	$9\frac{3}{4}$	6	$3\frac{3}{8}$	2	$2\frac{1}{8}$	7	$5\frac{1}{8}$	2	$6\frac{1}{2}$	8	$6\frac{7}{8}$
1	$9\frac{7}{8}$	6	$3\frac{3}{4}$	2	$2\frac{1}{4}$	7	$5\frac{1}{2}$	2	$6\frac{5}{8}$	8	$7\frac{1}{4}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 115

DIAGONAL MEASUREMENT AT THE ROOT, 1 $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	6 $\frac{3}{4}$	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	2	11 $\frac{1}{8}$	9	9 $\frac{3}{8}$	3	3 $\frac{1}{2}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$
2	6 $\frac{7}{8}$	8	8 $\frac{1}{16}$	2	11 $\frac{1}{4}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	3 $\frac{5}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$
2	7	8	8 $\frac{1}{2}$	2	11 $\frac{3}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	3 $\frac{3}{4}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$
2	7 $\frac{1}{8}$	8	8 $\frac{7}{8}$	2	11 $\frac{1}{2}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	3 $\frac{7}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$
2	7 $\frac{1}{4}$	8	9 $\frac{1}{4}$	2	11 $\frac{5}{8}$	9	11	3	4	11	0 $\frac{5}{8}$ - $\frac{1}{16}$
2	7 $\frac{3}{8}$	8	9 $\frac{5}{8}$	2	11 $\frac{3}{4}$	9	11 $\frac{3}{8}$	3	4 $\frac{1}{8}$	11	1 $\frac{1}{16}$
2	7 $\frac{1}{2}$	8	10	2	11 $\frac{7}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	4 $\frac{1}{4}$	11	1 $\frac{1}{2}$
2	7 $\frac{5}{8}$	8	10 $\frac{3}{8}$	3	0	10	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{3}{8}$	11	1 $\frac{7}{8}$
2	7 $\frac{3}{4}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{1}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	4 $\frac{1}{2}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$
2	7 $\frac{7}{8}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	0 $\frac{1}{4}$	10	1	3	4 $\frac{5}{8}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$
2	8	8	11 $\frac{5}{8}$	3	0 $\frac{3}{8}$	10	1 $\frac{3}{8}$	3	4 $\frac{3}{4}$	11	3 $\frac{1}{16}$
2	8 $\frac{1}{8}$	9	0	3	0 $\frac{1}{2}$	10	1 $\frac{3}{4}$	3	4 $\frac{7}{8}$	11	3 $\frac{1}{2}$
2	8 $\frac{1}{4}$	9	0 $\frac{3}{8}$	3	0 $\frac{5}{8}$	10	2 $\frac{1}{8}$	3	5	11	3 $\frac{7}{8}$
2	8 $\frac{3}{8}$	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{3}{4}$	10	2 $\frac{1}{2}$	3	5 $\frac{1}{8}$	11	4 $\frac{1}{4}$ - $\frac{1}{16}$
2	8 $\frac{1}{2}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	0 $\frac{7}{8}$	10	2 $\frac{7}{8}$	3	5 $\frac{1}{4}$	11	4 $\frac{3}{8}$ - $\frac{1}{16}$
2	8 $\frac{5}{8}$	9	1 $\frac{5}{8}$	3	1	10	3 $\frac{1}{4}$ - $\frac{1}{16}$	3	5 $\frac{3}{8}$	11	5 $\frac{1}{16}$
2	8 $\frac{3}{4}$	9	2	3	1 $\frac{1}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$	3	5 $\frac{1}{2}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$
2	8 $\frac{7}{8}$	9	2 $\frac{3}{8}$	3	1 $\frac{1}{4}$	10	4 $\frac{1}{8}$	3	5 $\frac{5}{8}$	11	5 $\frac{3}{4}$ - $\frac{1}{16}$
2	9	9	2 $\frac{3}{4}$	3	1 $\frac{3}{8}$	10	4 $\frac{1}{2}$	3	5 $\frac{3}{4}$	11	6 $\frac{1}{8}$ - $\frac{1}{16}$
2	9 $\frac{1}{8}$	9	3 $\frac{1}{8}$	3	1 $\frac{1}{2}$	10	4 $\frac{7}{8}$	3	5 $\frac{7}{8}$	11	6 $\frac{1}{2}$ - $\frac{1}{16}$
2	9 $\frac{1}{4}$	9	3 $\frac{1}{2}$	3	1 $\frac{5}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	6	11	7
2	9 $\frac{3}{8}$	9	3 $\frac{7}{8}$	3	1 $\frac{3}{4}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	6 $\frac{1}{8}$	11	7 $\frac{3}{8}$
2	9 $\frac{1}{2}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	1 $\frac{7}{8}$	10	6 $\frac{1}{16}$	3	6 $\frac{1}{4}$	11	7 $\frac{3}{4}$ - $\frac{1}{16}$
2	9 $\frac{5}{8}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	2	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	6 $\frac{3}{8}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$
2	9 $\frac{3}{4}$	9	5 $\frac{1}{16}$	3	2 $\frac{1}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	6 $\frac{1}{2}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$
2	9 $\frac{7}{8}$	9	5 $\frac{1}{2}$	3	2 $\frac{1}{4}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$	3	6 $\frac{5}{8}$	11	9
2	10	9	5 $\frac{7}{8}$	3	2 $\frac{3}{8}$	10	7 $\frac{5}{8}$	3	6 $\frac{3}{4}$	11	9 $\frac{3}{8}$
2	10 $\frac{1}{8}$	9	6 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{1}{2}$	10	8	3	6 $\frac{7}{8}$	11	9 $\frac{3}{4}$ - $\frac{1}{16}$
2	10 $\frac{1}{4}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$	3	2 $\frac{5}{8}$	10	8 $\frac{3}{8}$	3	7	11	10 $\frac{1}{8}$ - $\frac{1}{16}$
2	10 $\frac{3}{8}$	9	7 $\frac{1}{16}$	3	2 $\frac{3}{4}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{1}{8}$	11	10 $\frac{1}{2}$ - $\frac{1}{16}$
2	10 $\frac{1}{2}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	2 $\frac{7}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{4}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$
2	10 $\frac{5}{8}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	3	10	9 $\frac{5}{8}$	3	7 $\frac{3}{8}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$
2	10 $\frac{3}{4}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	3 $\frac{1}{8}$	10	10	3	7 $\frac{1}{2}$	11	11 $\frac{5}{8}$ - $\frac{1}{16}$
2	10 $\frac{7}{8}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	3 $\frac{1}{4}$	10	10 $\frac{3}{8}$	3	7 $\frac{5}{8}$	12	0 $\frac{1}{16}$
2	11	9	9	3	3 $\frac{3}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{3}{4}$	12	0 $\frac{1}{2}$

# 116      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$7\frac{7}{8}$	12	$0\frac{7}{8}$	4	$0\frac{1}{4}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	$4\frac{5}{8}$	14	$4\frac{3}{8}$
3	8	12	$1\frac{1}{4}-\frac{1}{16}$	4	$0\frac{3}{8}$	13	$3\frac{1}{16}$	4	$4\frac{3}{4}$	14	$4\frac{3}{4}-\frac{1}{16}$
3	$8\frac{1}{8}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	$0\frac{1}{2}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	$4\frac{7}{8}$	14	$5\frac{1}{8}-\frac{1}{16}$
3	$8\frac{1}{4}$	12	$2\frac{1}{16}$	4	$0\frac{5}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$	4	5	14	$5\frac{1}{2}-\frac{1}{16}$
3	$8\frac{3}{8}$	12	$2\frac{1}{2}$	4	$0\frac{3}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$5\frac{1}{8}$	14	6
3	$8\frac{1}{2}$	12	$2\frac{7}{8}$	4	$0\frac{7}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	$5\frac{1}{4}$	14	$6\frac{3}{8}$
3	$8\frac{5}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	1	13	5	4	$5\frac{3}{8}$	14	$6\frac{3}{4}$
3	$8\frac{3}{4}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{8}$	13	$5\frac{3}{8}$	4	$5\frac{1}{2}$	14	$7\frac{1}{8}$
3	$8\frac{7}{8}$	12	$4\frac{1}{16}$	4	$1\frac{1}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$	4	$5\frac{5}{8}$	14	$7\frac{1}{2}$
3	9	12	$4\frac{3}{8}-\frac{1}{16}$	4	$1\frac{3}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$	4	$5\frac{3}{4}$	14	$7\frac{7}{8}$
3	$9\frac{1}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	$1\frac{1}{2}$	13	$6\frac{1}{2}-\frac{1}{16}$	4	$5\frac{7}{8}$	14	$8\frac{1}{4}-\frac{1}{16}$
3	$9\frac{1}{4}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$1\frac{5}{8}$	13	7	4	6	14	$8\frac{5}{8}-\frac{1}{16}$
3	$9\frac{3}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	$1\frac{3}{4}$	13	$7\frac{3}{8}$	4	$6\frac{1}{8}$	14	$9\frac{1}{8}$
3	$9\frac{1}{2}$	12	6	4	$1\frac{7}{8}$	13	$7\frac{3}{4}$	4	$6\frac{1}{4}$	14	$9\frac{1}{2}$
3	$9\frac{5}{8}$	12	$6\frac{3}{8}$	4	2	13	$8\frac{1}{8}$	4	$6\frac{3}{8}$	14	$9\frac{7}{8}$
3	$9\frac{3}{4}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$2\frac{1}{8}$	13	$8\frac{1}{2}$	4	$6\frac{1}{2}$	14	$10\frac{1}{4}$
3	$9\frac{7}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$2\frac{1}{4}$	13	$8\frac{7}{8}$	4	$6\frac{5}{8}$	14	$10\frac{5}{8}-\frac{1}{16}$
3	10	12	$7\frac{1}{2}-\frac{1}{16}$	4	$2\frac{3}{8}$	13	$9\frac{1}{4}-\frac{1}{16}$	4	$6\frac{3}{4}$	14	$11\frac{1}{8}$
3	$10\frac{1}{8}$	12	8	4	$2\frac{1}{2}$	13	$9\frac{5}{8}-\frac{1}{16}$	4	$6\frac{7}{8}$	14	$11\frac{1}{2}$
3	$10\frac{1}{4}$	12	$8\frac{3}{8}$	4	$2\frac{5}{8}$	13	$10\frac{1}{16}$	4	7	14	$11\frac{7}{8}$
3	$10\frac{3}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	$2\frac{3}{4}$	13	$10\frac{1}{2}$	4	$7\frac{1}{8}$	15	$0\frac{1}{4}$
3	$10\frac{1}{2}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	$2\frac{7}{8}$	13	$10\frac{7}{8}$	4	$7\frac{1}{4}$	15	$0\frac{5}{8}$
3	$10\frac{5}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	3	13	$11\frac{1}{4}-\frac{1}{16}$	4	$7\frac{3}{8}$	15	1
3	$10\frac{3}{4}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$3\frac{1}{8}$	13	$11\frac{5}{8}-\frac{1}{16}$	4	$7\frac{1}{2}$	15	$1\frac{3}{8}$
3	$10\frac{7}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$3\frac{1}{4}$	14	$0\frac{1}{16}$	4	$7\frac{5}{8}$	15	$1\frac{3}{4}-\frac{1}{16}$
3	11	12	$10\frac{5}{8}-\frac{1}{16}$	4	$3\frac{3}{8}$	14	$0\frac{1}{2}$	4	$7\frac{3}{4}$	15	$2\frac{1}{8}-\frac{1}{16}$
3	$11\frac{1}{8}$	12	$11\frac{1}{16}$	4	$3\frac{1}{2}$	14	$0\frac{7}{8}$	4	$7\frac{7}{8}$	15	$2\frac{1}{2}-\frac{1}{16}$
3	$11\frac{1}{4}$	12	$11\frac{1}{2}$	4	$3\frac{5}{8}$	14	$1\frac{1}{4}$	4	8	15	3
3	$11\frac{3}{8}$	12	$11\frac{7}{8}$	4	$3\frac{3}{4}$	14	$1\frac{5}{8}$	4	$8\frac{1}{8}$	15	$3\frac{3}{8}$
3	$11\frac{1}{2}$	13	$0\frac{1}{4}-\frac{1}{16}$	4	$3\frac{7}{8}$	14	2	4	$8\frac{1}{4}$	15	$3\frac{3}{4}-\frac{1}{16}$
3	$11\frac{5}{8}$	13	$0\frac{5}{8}-\frac{1}{16}$	4	4	14	$2\frac{3}{8}$	4	$8\frac{3}{8}$	15	$4\frac{1}{8}-\frac{1}{16}$
3	$11\frac{3}{4}$	13	$1\frac{1}{16}$	4	$4\frac{1}{8}$	14	$2\frac{3}{4}-\frac{1}{16}$	4	$8\frac{1}{2}$	15	$4\frac{1}{2}-\frac{1}{16}$
3	$11\frac{7}{8}$	13	$1\frac{1}{2}$	4	$4\frac{1}{4}$	14	$3\frac{1}{8}-\frac{1}{16}$	4	$8\frac{5}{8}$	15	5
4	0	13	$1\frac{7}{8}$	4	$4\frac{3}{8}$	14	$3\frac{1}{2}-\frac{1}{16}$	4	$8\frac{3}{4}$	15	$5\frac{3}{8}$
4	$0\frac{1}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	$4\frac{1}{2}$	14	4	4	$8\frac{7}{8}$	15	$5\frac{3}{4}$



ANGLE-IRON RINGS (FLANGE OUTSIDE). 117

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	9	15	$6\frac{1}{8}$	5	$2\frac{3}{4}$	17	$0\frac{1}{8}-\frac{1}{16}$	5	$11\frac{1}{2}$	19	$3\frac{5}{8}-\frac{1}{16}$
4	$9\frac{1}{8}$	15	$6\frac{1}{2}$	5	3	17	1	5	$11\frac{3}{4}$	19	$4\frac{1}{2}$
4	$9\frac{1}{4}$	15	$6\frac{7}{8}$	5	$3\frac{1}{4}$	17	$1\frac{3}{4}-\frac{1}{16}$	6	0	19	$5\frac{1}{4}-\frac{1}{16}$
4	$9\frac{3}{8}$	15	$7\frac{1}{4}-\frac{1}{16}$	5	$3\frac{1}{2}$	17	$2\frac{1}{2}-\frac{1}{16}$	6	$0\frac{1}{4}$	19	$6\frac{1}{16}$
4	$9\frac{1}{2}$	15	$7\frac{5}{8}-\frac{1}{16}$	5	$3\frac{3}{4}$	17	$3\frac{3}{8}$	6	$0\frac{1}{2}$	19	$6\frac{3}{4}-\frac{1}{16}$
4	$9\frac{5}{8}$	15	$8\frac{1}{8}$	5	4	17	$4\frac{1}{8}$	6	$0\frac{3}{4}$	19	$7\frac{1}{2}-\frac{1}{16}$
4	$9\frac{3}{4}$	15	$8\frac{1}{2}$	5	$4\frac{1}{4}$	17	$4\frac{7}{8}$	6	1	19	$8\frac{3}{8}$
4	$9\frac{7}{8}$	15	$8\frac{7}{8}$	5	$4\frac{1}{2}$	17	$5\frac{5}{8}-\frac{1}{16}$	6	$1\frac{1}{4}$	19	$9\frac{1}{8}-\frac{1}{16}$
4	10	15	$9\frac{1}{4}-\frac{1}{16}$	5	$4\frac{3}{4}$	17	$6\frac{1}{2}$	6	$1\frac{1}{2}$	19	10
4	$10\frac{1}{8}$	15	$9\frac{5}{8}-\frac{1}{16}$	5	5	17	$7\frac{1}{4}$	6	$1\frac{3}{4}$	19	$10\frac{3}{4}-\frac{1}{16}$
4	$10\frac{1}{4}$	15	$10\frac{1}{16}$	5	$5\frac{1}{4}$	17	$8\frac{1}{8}$	6	2	19	$11\frac{1}{2}-\frac{1}{16}$
4	$10\frac{3}{8}$	15	$10\frac{1}{2}$	5	$5\frac{1}{2}$	17	$8\frac{7}{8}$	6	$2\frac{1}{4}$	20	$0\frac{1}{4}-\frac{1}{16}$
4	$10\frac{1}{2}$	15	$10\frac{7}{8}$	5	$5\frac{3}{4}$	17	$9\frac{5}{8}$	6	$2\frac{1}{2}$	20	$1\frac{1}{8}$
4	$10\frac{5}{8}$	15	$11\frac{1}{4}$	5	6	17	$10\frac{3}{8}$	6	$2\frac{3}{4}$	20	$1\frac{7}{8}$
4	$10\frac{3}{4}$	15	$11\frac{3}{8}$	5	$6\frac{1}{4}$	17	$11\frac{1}{8}-\frac{1}{16}$	6	3	20	$2\frac{5}{8}-\frac{1}{16}$
4	$10\frac{7}{8}$	16	0	5	$6\frac{1}{2}$	18	0	6	$3\frac{1}{4}$	20	$3\frac{1}{2}$
4	11	16	$0\frac{3}{8}$	5	$6\frac{3}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$	6	$3\frac{1}{2}$	20	$4\frac{1}{4}-\frac{1}{16}$
4	$11\frac{1}{8}$	16	$0\frac{1}{4}-\frac{1}{16}$	5	7	18	$1\frac{1}{2}-\frac{1}{16}$	6	$3\frac{3}{4}$	20	$5\frac{1}{16}$
4	$11\frac{1}{4}$	16	$1\frac{1}{8}-\frac{1}{16}$	5	$7\frac{1}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$	6	4	20	$5\frac{3}{4}-\frac{1}{16}$
4	$11\frac{3}{8}$	16	$1\frac{1}{2}-\frac{1}{16}$	5	$7\frac{1}{2}$	18	$3\frac{1}{8}$	6	$4\frac{1}{4}$	20	$6\frac{1}{2}-\frac{1}{16}$
4	$11\frac{1}{2}$	16	2	5	$7\frac{3}{4}$	18	$3\frac{7}{8}$	6	$4\frac{1}{2}$	20	$7\frac{3}{8}$
4	$11\frac{5}{8}$	16	$2\frac{3}{8}$	5	8	18	$4\frac{5}{8}-\frac{1}{16}$	6	$4\frac{3}{4}$	20	$8\frac{1}{8}-\frac{1}{16}$
4	$11\frac{3}{4}$	16	$2\frac{3}{4}-\frac{1}{16}$	5	$8\frac{1}{4}$	18	$5\frac{1}{2}$	6	5	20	9
4	$11\frac{7}{8}$	16	$3\frac{1}{8}-\frac{1}{16}$	5	$8\frac{1}{2}$	18	$6\frac{1}{4}-\frac{1}{16}$	6	$5\frac{1}{4}$	20	$9\frac{3}{4}$
5	0	16	$3\frac{1}{2}-\frac{1}{16}$	5	$8\frac{3}{4}$	18	$7\frac{1}{16}$	6	$5\frac{1}{2}$	20	$10\frac{1}{2}$
5	$0\frac{1}{4}$	16	$4\frac{3}{8}$	5	9	18	$7\frac{3}{4}-\frac{1}{16}$	6	$5\frac{3}{4}$	20	$11\frac{1}{4}-\frac{1}{16}$
5	$0\frac{1}{2}$	16	$5\frac{1}{8}$	5	$9\frac{1}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$	6	6	21	$0\frac{1}{8}$
5	$0\frac{3}{4}$	16	$5\frac{7}{8}$	5	$9\frac{1}{2}$	18	$9\frac{3}{8}$	6	$6\frac{1}{4}$	21	$0\frac{7}{8}$
5	1	16	$6\frac{5}{8}-\frac{1}{16}$	5	$9\frac{3}{4}$	18	$10\frac{1}{8}-\frac{1}{16}$	6	$6\frac{1}{2}$	21	$1\frac{5}{8}-\frac{1}{16}$
5	$1\frac{1}{4}$	16	$7\frac{1}{2}$	5	10	18	11	6	$6\frac{3}{4}$	21	$2\frac{1}{2}$
5	$1\frac{1}{2}$	16	$8\frac{1}{4}-\frac{1}{16}$	5	$10\frac{1}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$	6	7	21	$3\frac{1}{4}$
5	$1\frac{3}{4}$	16	$9\frac{1}{8}$	5	$10\frac{1}{2}$	19	$0\frac{1}{2}-\frac{1}{16}$	6	$7\frac{1}{4}$	21	4
5	2	16	$9\frac{7}{8}$	5	$10\frac{3}{4}$	19	$1\frac{1}{4}-\frac{1}{16}$	6	$7\frac{1}{2}$	21	$4\frac{3}{4}-\frac{1}{16}$
5	$2\frac{1}{4}$	16	$10\frac{5}{8}$	5	11	19	$2\frac{1}{8}$	6	$7\frac{3}{4}$	21	$5\frac{1}{2}-\frac{1}{16}$
5	$2\frac{1}{2}$	16	$11\frac{3}{8}$	5	$11\frac{1}{4}$	19	$2\frac{7}{8}$	6	8	21	$6\frac{3}{8}$

118 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$8\frac{1}{4}$	21	$7\frac{1}{8}-\frac{1}{16}$	7	5	23	$10\frac{3}{8}-\frac{1}{16}$	8	$1\frac{3}{4}$	26	$2\frac{1}{8}-\frac{1}{16}$
6	$8\frac{1}{2}$	21	8	7	$5\frac{1}{4}$	23	$11\frac{3}{8}-\frac{1}{16}$	8	2	26	$2\frac{7}{8}-\frac{1}{16}$
6	$8\frac{3}{4}$	21	$8\frac{3}{4}$	7	$5\frac{1}{2}$	24	$0\frac{1}{8}-\frac{1}{16}$	8	$2\frac{1}{4}$	26	$3\frac{5}{8}-\frac{1}{16}$
6	9	21	$9\frac{1}{2}$	7	$5\frac{3}{4}$	24	1	8	$2\frac{1}{2}$	26	$4\frac{1}{2}$
6	$9\frac{1}{4}$	21	$10\frac{1}{4}-\frac{1}{16}$	7	6	24	$1\frac{3}{4}-\frac{1}{16}$	8	$2\frac{3}{4}$	26	$5\frac{1}{4}-\frac{1}{16}$
6	$9\frac{1}{2}$	21	$11\frac{1}{8}$	7	$6\frac{1}{4}$	24	$2\frac{1}{2}-\frac{1}{16}$	8	3	26	$6\frac{1}{16}$
6	$9\frac{3}{4}$	21	$11\frac{7}{8}$	7	$6\frac{1}{2}$	24	$3\frac{3}{8}$	8	$3\frac{1}{4}$	26	$6\frac{3}{4}-\frac{1}{16}$
6	10	22	$0\frac{5}{8}-\frac{1}{16}$	7	$6\frac{3}{4}$	24	$4\frac{1}{8}-\frac{1}{16}$	8	$3\frac{1}{2}$	26	$7\frac{5}{8}$
6	$10\frac{1}{4}$	22	$1\frac{1}{2}$	7	7	24	5	8	$3\frac{3}{4}$	26	$8\frac{3}{8}-\frac{1}{16}$
6	$10\frac{1}{2}$	22	$2\frac{1}{4}$	7	$7\frac{1}{4}$	24	$5\frac{3}{4}$	8	4	26	$9\frac{1}{8}-\frac{1}{16}$
6	$10\frac{3}{4}$	22	3	7	$7\frac{1}{2}$	24	$6\frac{1}{2}$	8	$4\frac{1}{4}$	26	10
6	11	22	$3\frac{3}{4}-\frac{1}{16}$	7	$7\frac{3}{4}$	24	$7\frac{1}{4}-\frac{1}{16}$	8	$4\frac{1}{2}$	26	$10\frac{3}{4}$
6	$11\frac{1}{4}$	22	$4\frac{1}{2}-\frac{1}{16}$	7	8	24	$8\frac{1}{8}$	8	$4\frac{3}{4}$	26	$11\frac{1}{2}-\frac{1}{16}$
6	$11\frac{1}{2}$	22	$5\frac{3}{8}$	7	$8\frac{1}{4}$	24	$8\frac{7}{8}$	8	5	27	$0\frac{1}{4}-\frac{1}{16}$
6	$11\frac{3}{4}$	22	$6\frac{1}{8}-\frac{1}{16}$	7	$8\frac{1}{2}$	24	$9\frac{5}{8}-\frac{1}{16}$	8	$5\frac{1}{4}$	27	$1\frac{1}{16}$
7	0	22	7	7	$8\frac{3}{4}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	$5\frac{1}{2}$	27	$1\frac{7}{8}-\frac{1}{16}$
7	$0\frac{1}{4}$	22	$7\frac{3}{4}$	7	9	24	$11\frac{1}{8}-\frac{1}{16}$	8	$5\frac{3}{4}$	27	$2\frac{5}{8}-\frac{1}{16}$
7	$0\frac{1}{2}$	22	$8\frac{1}{2}$	7	$9\frac{1}{4}$	25	0	8	6	27	$3\frac{1}{2}$
7	$0\frac{3}{4}$	22	$9\frac{1}{4}-\frac{1}{16}$	7	$9\frac{1}{2}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	$6\frac{1}{4}$	27	$4\frac{1}{4}$
7	1	22	$10\frac{1}{8}$	7	$9\frac{3}{4}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$6\frac{1}{2}$	27	$5\frac{1}{16}$
7	$1\frac{1}{4}$	22	$10\frac{7}{8}$	7	10	25	$2\frac{3}{8}$	8	$6\frac{3}{4}$	27	$5\frac{3}{4}-\frac{1}{16}$
7	$1\frac{1}{2}$	22	$11\frac{5}{8}-\frac{1}{16}$	7	$10\frac{1}{4}$	25	$3\frac{1}{8}-\frac{1}{16}$	8	7	27	$6\frac{5}{8}$
7	$1\frac{3}{4}$	23	$0\frac{1}{2}$	7	$10\frac{1}{2}$	25	$3\frac{7}{8}-\frac{1}{16}$	8	$7\frac{1}{4}$	27	$7\frac{3}{8}-\frac{1}{16}$
7	2	23	$1\frac{1}{4}$	7	$10\frac{3}{4}$	25	$4\frac{5}{8}-\frac{1}{16}$	8	$7\frac{1}{2}$	27	$8\frac{1}{8}-\frac{1}{16}$
7	$2\frac{1}{4}$	23	2	7	11	25	$5\frac{1}{2}$	8	$7\frac{3}{4}$	27	9
7	$2\frac{1}{2}$	23	$2\frac{3}{4}-\frac{1}{16}$	7	$11\frac{1}{4}$	25	$6\frac{1}{4}-\frac{1}{16}$	8	8	27	$9\frac{3}{4}$
7	$2\frac{3}{4}$	23	$3\frac{1}{2}-\frac{1}{16}$	7	$11\frac{1}{2}$	25	$7\frac{1}{8}$	8	$8\frac{1}{4}$	27	$10\frac{1}{2}$
7	3	23	$4\frac{3}{8}$	7	$11\frac{3}{4}$	25	$7\frac{7}{8}$	8	$8\frac{1}{2}$	27	$11\frac{1}{4}-\frac{1}{16}$
7	$3\frac{1}{4}$	23	$5\frac{1}{8}-\frac{1}{16}$	8	0	25	$8\frac{5}{8}-\frac{1}{16}$	8	$8\frac{3}{4}$	28	$0\frac{1}{8}$
7	$3\frac{1}{2}$	23	6	8	$0\frac{1}{4}$	25	$9\frac{3}{8}-\frac{1}{16}$	8	9	28	$0\frac{7}{8}$
7	$3\frac{3}{4}$	23	$6\frac{3}{4}$	8	$0\frac{1}{2}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	$9\frac{1}{4}$	28	$1\frac{5}{8}-\frac{1}{16}$
7	4	23	$7\frac{1}{2}$	8	$0\frac{3}{4}$	25	11	8	$9\frac{1}{2}$	28	$2\frac{1}{2}$
7	$4\frac{1}{4}$	23	$8\frac{1}{4}-\frac{1}{16}$	8	1	25	$11\frac{3}{4}-\frac{1}{16}$	8	$9\frac{3}{4}$	28	$3\frac{1}{4}$
7	$4\frac{1}{2}$	23	$9\frac{1}{16}$	8	$1\frac{1}{4}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	10	28	4
7	$4\frac{3}{4}$	23	$9\frac{7}{8}$	8	$1\frac{1}{2}$	26	$1\frac{3}{8}$	8	$10\frac{1}{4}$	28	$4\frac{7}{8}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 119

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$10\frac{1}{2}$	28	$5\frac{5}{8}$	9	$7\frac{1}{4}$	30	$9\frac{1}{8}$	10	4	33	$0\frac{5}{8}$
8	$10\frac{3}{4}$	28	$6\frac{3}{8}$	9	$7\frac{1}{2}$	30	$9\frac{7}{8}$	10	$4\frac{1}{4}$	33	$1\frac{3}{8}$
8	11	28	$7\frac{1}{8}-\frac{1}{16}$	9	$7\frac{3}{4}$	30	$10\frac{5}{8}-\frac{1}{16}$	10	$4\frac{1}{2}$	33	$2\frac{1}{8}-\frac{1}{16}$
8	$11\frac{1}{4}$	28	8	9	8	30	$11\frac{3}{8}-\frac{1}{16}$	10	$4\frac{3}{4}$	33	3
8	$11\frac{1}{2}$	28	$8\frac{3}{4}$	9	$8\frac{1}{4}$	31	$0\frac{1}{4}$	10	5	33	$3\frac{3}{4}$
8	$11\frac{3}{4}$	28	$9\frac{1}{2}$	9	$8\frac{1}{2}$	31	1	10	$5\frac{1}{4}$	33	$4\frac{1}{2}$
9	0	28	$10\frac{1}{4}-\frac{1}{16}$	9	$8\frac{3}{4}$	31	$1\frac{3}{4}-\frac{1}{16}$	10	$5\frac{1}{2}$	33	$5\frac{1}{4}-\frac{1}{16}$
9	$0\frac{1}{4}$	28	$11\frac{1}{8}$	9	9	31	$2\frac{5}{8}$	10	$5\frac{3}{4}$	33	$6\frac{1}{16}$
9	$0\frac{1}{2}$	28	$11\frac{7}{8}$	9	$9\frac{1}{4}$	31	$3\frac{3}{8}$	10	6	33	$6\frac{7}{8}$
9	$0\frac{3}{4}$	29	$0\frac{7}{8}-\frac{1}{16}$	9	$9\frac{1}{2}$	31	$4\frac{1}{8}$	10	$6\frac{1}{4}$	33	$7\frac{5}{8}-\frac{1}{16}$
9	1	29	$1\frac{1}{2}$	9	$9\frac{3}{4}$	31	5	10	$6\frac{1}{2}$	33	$8\frac{3}{8}-\frac{1}{16}$
9	$1\frac{1}{4}$	29	$2\frac{1}{4}$	9	10	31	$5\frac{3}{4}$	10	$6\frac{3}{4}$	33	$9\frac{1}{4}$
9	$1\frac{1}{2}$	29	3	9	$10\frac{1}{4}$	31	$6\frac{1}{2}$	10	7	33	10
9	$1\frac{3}{4}$	29	$3\frac{1}{4}-\frac{1}{16}$	9	$10\frac{1}{2}$	31	$7\frac{1}{4}-\frac{1}{16}$	10	$7\frac{1}{4}$	33	$10\frac{3}{4}-\frac{1}{16}$
9	2	29	$4\frac{5}{8}$	9	$10\frac{3}{4}$	31	8	10	$7\frac{1}{2}$	33	$11\frac{1}{2}-\frac{1}{16}$
9	$2\frac{1}{4}$	29	$5\frac{3}{8}$	9	11	31	$8\frac{7}{8}$	10	$7\frac{3}{4}$	34	$0\frac{3}{8}$
9	$2\frac{1}{2}$	29	$6\frac{1}{8}-\frac{1}{16}$	9	$11\frac{1}{4}$	31	$9\frac{5}{8}-\frac{1}{16}$	10	8	34	$1\frac{1}{8}-\frac{1}{16}$
9	$2\frac{3}{4}$	29	7	9	$11\frac{1}{2}$	31	$10\frac{3}{8}-\frac{1}{16}$	10	$8\frac{1}{4}$	34	$1\frac{7}{8}-\frac{1}{16}$
9	3	29	$7\frac{3}{4}$	9	$11\frac{3}{4}$	31	$11\frac{1}{4}$	10	$8\frac{1}{2}$	34	$2\frac{3}{4}$
9	$3\frac{1}{4}$	29	$8\frac{1}{2}-\frac{1}{16}$	10	0	32	0	10	$8\frac{3}{4}$	34	$3\frac{1}{2}$
9	$3\frac{1}{2}$	29	$9\frac{1}{4}-\frac{1}{16}$	10	$0\frac{1}{4}$	32	$0\frac{3}{4}-\frac{1}{16}$	10	9	34	$4\frac{1}{4}-\frac{1}{16}$
9	$3\frac{3}{4}$	29	$10\frac{1}{8}$	10	$0\frac{1}{2}$	32	$1\frac{5}{8}$	10	$9\frac{1}{4}$	34	$5\frac{1}{16}$
9	4	29	$10\frac{7}{8}$	10	$0\frac{3}{4}$	32	$2\frac{3}{8}$	10	$9\frac{1}{2}$	34	$5\frac{7}{8}$
9	$4\frac{1}{4}$	29	$11\frac{5}{8}-\frac{1}{16}$	10	1	32	$3\frac{1}{8}-\frac{1}{16}$	10	$9\frac{3}{4}$	34	$6\frac{5}{8}-\frac{1}{16}$
9	$4\frac{1}{2}$	30	$0\frac{3}{8}-\frac{1}{16}$	10	$1\frac{1}{4}$	32	$3\frac{7}{8}$	10	10	34	$7\frac{3}{8}-\frac{1}{16}$
9	$4\frac{3}{4}$	30	$1\frac{1}{4}$	10	$1\frac{1}{2}$	32	$4\frac{3}{4}$	10	$10\frac{1}{4}$	34	$8\frac{1}{4}$
9	5	30	2	10	$1\frac{3}{4}$	32	$5\frac{1}{2}$	10	$10\frac{1}{2}$	34	9
9	$5\frac{1}{4}$	30	$2\frac{3}{4}-\frac{1}{16}$	10	2	32	$6\frac{1}{4}-\frac{1}{16}$	10	$10\frac{3}{4}$	34	$9\frac{3}{4}-\frac{1}{16}$
9	$5\frac{1}{2}$	30	$3\frac{5}{8}$	10	$2\frac{1}{4}$	32	$7\frac{1}{8}$	10	11	34	$10\frac{1}{2}-\frac{1}{16}$
9	$5\frac{3}{4}$	30	$4\frac{3}{8}$	10	$2\frac{1}{2}$	32	$7\frac{7}{8}$	10	$11\frac{1}{4}$	34	$11\frac{3}{8}$
9	6	30	$5\frac{1}{8}-\frac{1}{16}$	10	$2\frac{3}{4}$	32	$8\frac{5}{8}-\frac{1}{16}$	10	$11\frac{1}{2}$	35	$0\frac{1}{8}$
9	$6\frac{1}{4}$	30	6	10	3	32	$9\frac{3}{8}-\frac{1}{16}$	10	$11\frac{3}{4}$	35	$0\frac{7}{8}-\frac{1}{16}$
9	$6\frac{1}{2}$	30	$6\frac{3}{4}$	10	$3\frac{1}{4}$	32	$10\frac{1}{4}$	11	0	35	$1\frac{3}{4}$
9	$6\frac{3}{4}$	30	$7\frac{1}{2}$	10	$3\frac{1}{2}$	32	11	11	$0\frac{1}{4}$	35	$2\frac{1}{2}$
9	7	30	$8\frac{1}{4}-\frac{1}{16}$	10	$3\frac{3}{4}$	32	$11\frac{3}{4}-\frac{1}{16}$	11	$0\frac{1}{2}$	35	$3\frac{1}{4}-\frac{1}{16}$

# 120      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	$0\frac{3}{4}$	35	$4\frac{1}{16}$	11	$8\frac{3}{4}$	37	$5\frac{1}{4}$	12	$4\frac{3}{4}$	39	$6\frac{3}{8}$
11	1	35	$4\frac{7}{8}$	11	9	37	6	12	5	39	$7\frac{1}{8}$
11	$1\frac{1}{4}$	35	$5\frac{3}{8}$	11	$9\frac{1}{4}$	37	$6\frac{3}{4}$	12	$5\frac{1}{4}$	39	$7\frac{7}{8}-\frac{1}{16}$
11	$1\frac{1}{2}$	35	$6\frac{3}{8}-\frac{1}{16}$	11	$9\frac{1}{2}$	37	$7\frac{1}{2}-\frac{1}{16}$	12	$5\frac{1}{2}$	39	$8\frac{5}{8}-\frac{1}{16}$
11	$1\frac{3}{4}$	35	$7\frac{1}{4}$	11	$9\frac{3}{4}$	37	$8\frac{3}{8}$	12	$5\frac{3}{4}$	39	$9\frac{1}{2}$
11	2	35	8	11	10	37	$9\frac{1}{8}$	12	6	39	$10\frac{1}{4}-\frac{1}{16}$
11	$2\frac{1}{4}$	35	$8\frac{3}{4}-\frac{1}{16}$	11	$10\frac{1}{4}$	37	$9\frac{7}{8}$	12	$6\frac{1}{4}$	39	$11\frac{1}{16}$
11	$2\frac{1}{2}$	35	$9\frac{1}{2}-\frac{1}{16}$	11	$10\frac{1}{2}$	37	$10\frac{3}{4}$	12	$6\frac{1}{2}$	39	$11\frac{3}{4}-\frac{1}{16}$
11	$2\frac{3}{4}$	35	$10\frac{3}{8}$	11	$10\frac{3}{4}$	37	$11\frac{1}{2}$	12	$6\frac{3}{4}$	40	$0\frac{5}{8}$
11	3	35	$11\frac{1}{8}$	11	11	38	$0\frac{1}{4}-\frac{1}{16}$	12	7	40	$1\frac{3}{8}-\frac{1}{16}$
11	$3\frac{1}{4}$	35	$11\frac{7}{8}-\frac{1}{16}$	11	$11\frac{1}{4}$	38	$1\frac{1}{8}$	12	$7\frac{1}{4}$	40	$2\frac{1}{8}-\frac{1}{16}$
11	$3\frac{1}{2}$	36	$0\frac{5}{8}-\frac{1}{16}$	11	$11\frac{1}{2}$	38	$1\frac{7}{8}$	12	$7\frac{1}{2}$	40	$2\frac{7}{8}-\frac{1}{16}$
11	$3\frac{3}{4}$	36	$1\frac{1}{2}$	11	$11\frac{3}{4}$	38	$2\frac{3}{8}$	12	$7\frac{3}{4}$	40	$3\frac{3}{4}-\frac{1}{16}$
11	4	36	$2\frac{1}{4}-\frac{1}{16}$	12	0	38	$3\frac{3}{8}$	12	8	40	$4\frac{1}{2}-\frac{1}{16}$
11	$4\frac{1}{4}$	36	$3\frac{1}{16}$	12	$0\frac{1}{4}$	38	$4\frac{1}{8}-\frac{1}{16}$	12	$8\frac{1}{4}$	40	$5\frac{1}{4}-\frac{1}{16}$
11	$4\frac{1}{2}$	36	$3\frac{7}{8}$	12	$0\frac{1}{2}$	38	5	12	$8\frac{1}{2}$	40	$6\frac{1}{8}$
11	$4\frac{3}{4}$	36	$4\frac{5}{8}$	12	$0\frac{3}{4}$	38	$5\frac{3}{4}-\frac{1}{16}$	12	$8\frac{3}{4}$	40	$6\frac{7}{8}-\frac{1}{16}$
11	5	36	$5\frac{3}{8}-\frac{1}{16}$	12	1	38	$6\frac{5}{8}$	12	9	40	$7\frac{3}{4}$
11	$5\frac{1}{4}$	36	$6\frac{1}{4}$	12	$1\frac{1}{4}$	38	$7\frac{3}{8}$	12	$9\frac{1}{4}$	40	$8\frac{1}{2}$
11	$5\frac{1}{2}$	36	7	12	$1\frac{1}{2}$	38	$8\frac{1}{8}$	12	$9\frac{1}{2}$	40	$9\frac{1}{4}-\frac{1}{16}$
11	$5\frac{3}{4}$	36	$7\frac{3}{4}-\frac{1}{16}$	12	$1\frac{3}{4}$	38	$8\frac{7}{8}-\frac{1}{16}$	12	$9\frac{3}{4}$	40	$10\frac{1}{16}$
11	6	36	$8\frac{1}{2}-\frac{1}{16}$	12	2	38	$9\frac{3}{4}$	12	10	40	$10\frac{7}{8}$
11	$6\frac{1}{4}$	36	$9\frac{3}{8}$	12	$2\frac{1}{4}$	38	$10\frac{1}{2}$	12	$10\frac{1}{4}$	40	$11\frac{5}{8}-\frac{1}{16}$
11	$6\frac{1}{2}$	36	$10\frac{1}{8}$	12	$2\frac{1}{2}$	38	$11\frac{1}{4}$	12	$10\frac{1}{2}$	41	$0\frac{3}{8}-\frac{1}{16}$
11	$6\frac{3}{4}$	36	$10\frac{7}{8}-\frac{1}{16}$	12	$2\frac{3}{4}$	39	$0\frac{1}{16}$	12	$10\frac{3}{4}$	41	$1\frac{1}{4}$
11	7	36	$11\frac{3}{4}$	12	3	39	$0\frac{7}{8}$	12	11	41	$2\frac{1}{16}$
11	$7\frac{1}{4}$	37	$0\frac{1}{2}$	12	$3\frac{1}{4}$	39	$1\frac{5}{8}$	12	$11\frac{1}{4}$	41	$2\frac{7}{8}$
11	$7\frac{1}{2}$	37	$1\frac{1}{4}-\frac{1}{16}$	12	$3\frac{1}{2}$	39	$2\frac{3}{8}-\frac{1}{16}$	12	$11\frac{1}{2}$	41	$3\frac{5}{8}$
11	$7\frac{3}{4}$	37	$2\frac{1}{16}$	12	$3\frac{3}{4}$	39	$3\frac{1}{4}$	12	$11\frac{3}{4}$	41	$4\frac{3}{8}$
11	8	37	$2\frac{7}{8}$	12	4	39	4	13	0	41	$5\frac{1}{8}-\frac{1}{16}$
11	$8\frac{1}{4}$	37	$3\frac{5}{8}$	12	$4\frac{1}{4}$	39	$4\frac{3}{4}-\frac{1}{16}$				
11	$8\frac{1}{2}$	37	$4\frac{3}{8}-\frac{1}{16}$	12	$4\frac{1}{2}$	39	$5\frac{1}{2}-\frac{1}{16}$				

# ANGLE-IRON RINGS (FLANGE OUTSIDE). 121

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	$9\frac{1}{2}$	1	$8\frac{3}{4}$	6	1	2	$5\frac{1}{2}$	8	$4\frac{1}{2}$
1	$0\frac{1}{4}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	9	6	$1\frac{3}{4}-\frac{1}{16}$	2	$5\frac{3}{4}$	8	$5\frac{1}{4}-\frac{1}{16}$
1	$0\frac{1}{2}$	3	$11\frac{1}{16}$	1	$9\frac{1}{4}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	6	8	$6\frac{1}{16}$
1	$0\frac{3}{4}$	3	$11\frac{7}{8}$	1	$9\frac{1}{2}$	6	$3\frac{3}{8}$	2	$6\frac{1}{4}$	8	$6\frac{7}{8}$
1	1	4	$0\frac{5}{8}-\frac{1}{16}$	1	$9\frac{3}{4}$	6	$4\frac{1}{8}$	2	$6\frac{1}{2}$	8	$7\frac{7}{8}-\frac{1}{16}$
1	$1\frac{1}{4}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	10	6	$4\frac{7}{8}-\frac{1}{16}$	2	$6\frac{3}{4}$	8	$8\frac{1}{2}$
1	$1\frac{1}{2}$	4	$2\frac{1}{4}$	1	$10\frac{1}{4}$	6	$5\frac{3}{4}$	2	7	8	$9\frac{1}{4}$
1	$1\frac{3}{4}$	4	$3\frac{1}{16}$	1	$10\frac{1}{2}$	6	$6\frac{1}{2}$	2	$7\frac{1}{4}$	8	10
1	2	4	$3\frac{3}{4}-\frac{1}{16}$	1	$10\frac{3}{4}$	6	$7\frac{1}{4}-\frac{1}{16}$	2	$7\frac{1}{2}$	8	$10\frac{3}{4}-\frac{1}{16}$
1	$2\frac{1}{4}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	11	6	$8\frac{1}{8}$	2	$7\frac{3}{4}$	8	$11\frac{5}{8}$
1	$2\frac{1}{2}$	4	$5\frac{3}{8}$	1	$11\frac{1}{4}$	6	$8\frac{7}{8}$	2	8	9	$0\frac{3}{8}$
1	$2\frac{3}{4}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{2}$	6	$9\frac{5}{8}-\frac{1}{16}$	2	$8\frac{1}{4}$	9	$1\frac{1}{8}-\frac{1}{16}$
1	3	4	$6\frac{7}{8}-\frac{1}{16}$	1	$11\frac{3}{4}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	$8\frac{1}{2}$	9	2
1	$3\frac{1}{4}$	4	$7\frac{3}{4}$	2	0	6	$11\frac{1}{4}$	2	$8\frac{3}{4}$	9	$2\frac{3}{4}$
1	$3\frac{1}{2}$	4	$8\frac{1}{2}$	2	$0\frac{1}{4}$	7	0	2	9	9	$3\frac{1}{2}$
1	$3\frac{3}{4}$	4	$9\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{2}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	$9\frac{1}{4}$	9	$4\frac{1}{4}-\frac{1}{16}$
1	4	4	$10\frac{1}{16}$	2	$0\frac{3}{4}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	$9\frac{1}{2}$	9	$5\frac{1}{16}$
1	$4\frac{1}{4}$	4	$10\frac{7}{8}$	2	1	7	$2\frac{3}{8}$	2	$9\frac{3}{4}$	9	$5\frac{7}{8}$
1	$4\frac{1}{2}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	$1\frac{1}{4}$	7	$3\frac{1}{8}$	2	10	9	$6\frac{5}{8}-\frac{1}{16}$
1	$4\frac{3}{4}$	5	$0\frac{3}{8}-\frac{1}{16}$	2	$1\frac{1}{2}$	7	$3\frac{7}{8}-\frac{1}{16}$	2	$10\frac{1}{4}$	9	$7\frac{3}{8}-\frac{1}{16}$
1	5	5	$1\frac{1}{4}$	2	$1\frac{3}{4}$	7	$4\frac{3}{4}$	2	$10\frac{1}{2}$	9	$8\frac{1}{8}-\frac{1}{16}$
1	$5\frac{1}{4}$	5	2	2	2	7	$5\frac{1}{2}$	2	$10\frac{3}{4}$	9	9
1	$5\frac{1}{2}$	5	$2\frac{3}{4}-\frac{1}{16}$	2	$2\frac{1}{4}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	11	9	$9\frac{3}{4}-\frac{1}{16}$
1	$5\frac{3}{4}$	5	$3\frac{1}{2}-\frac{1}{16}$	2	$2\frac{1}{2}$	7	$7\frac{1}{16}$	2	$11\frac{1}{4}$	9	$10\frac{1}{2}-\frac{1}{16}$
1	6	5	$4\frac{3}{8}$	2	$2\frac{3}{4}$	7	$7\frac{7}{8}$	2	$11\frac{1}{2}$	9	$11\frac{3}{8}$
1	$6\frac{1}{4}$	5	$5\frac{1}{8}-\frac{1}{16}$	2	3	7	$8\frac{5}{8}$	2	$11\frac{3}{4}$	10	$0\frac{1}{8}-\frac{1}{16}$
1	$6\frac{1}{2}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	$3\frac{1}{4}$	7	$9\frac{3}{8}-\frac{1}{16}$	3	0	10	1
1	$6\frac{3}{4}$	5	$6\frac{3}{4}$	2	$3\frac{1}{2}$	7	$10\frac{1}{4}$	3	$0\frac{1}{4}$	10	$1\frac{3}{4}$
1	7	5	$7\frac{1}{2}$	2	$3\frac{3}{4}$	7	11	3	$0\frac{1}{2}$	10	$2\frac{1}{2}$
1	$7\frac{1}{4}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	4	7	$11\frac{3}{4}-\frac{1}{16}$	3	$0\frac{3}{4}$	10	$3\frac{1}{4}-\frac{1}{16}$
1	$7\frac{1}{2}$	5	$9\frac{1}{16}$	2	$4\frac{1}{4}$	8	$0\frac{1}{2}-\frac{1}{16}$	3	1	10	$4\frac{1}{8}$
1	$7\frac{3}{4}$	5	$9\frac{7}{8}$	2	$4\frac{1}{2}$	8	$1\frac{3}{8}$	3	$1\frac{1}{4}$	10	$4\frac{7}{8}$
1	8	5	$10\frac{5}{8}$	2	$4\frac{3}{4}$	8	$2\frac{1}{8}-\frac{1}{16}$	3	$1\frac{1}{2}$	10	$5\frac{5}{8}-\frac{1}{16}$
1	$8\frac{1}{4}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	5	8	3	3	$1\frac{3}{4}$	10	$6\frac{3}{8}-\frac{1}{16}$
1	$8\frac{1}{2}$	6	$0\frac{1}{4}$	2	$5\frac{1}{4}$	8	$3\frac{3}{4}$	3	2	10	$7\frac{1}{8}-\frac{1}{16}$

# 122      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$2\frac{1}{4}$	10	8	3	11	12	$11\frac{1}{2}$	4	$7\frac{3}{4}$	15	3
3	$2\frac{1}{2}$	10	$8\frac{3}{4}-\frac{1}{16}$	3	$11\frac{1}{4}$	13	$0\frac{1}{4}-\frac{1}{16}$	4	8	15	$3\frac{3}{4}-\frac{1}{16}$
3	$2\frac{3}{4}$	10	$9\frac{3}{8}$	3	$11\frac{1}{2}$	13	$1\frac{1}{16}$	4	$8\frac{1}{4}$	15	$4\frac{1}{2}-\frac{1}{16}$
3	3	10	$10\frac{3}{8}$	3	$11\frac{3}{4}$	13	$1\frac{7}{8}$	4	$8\frac{1}{2}$	15	$5\frac{3}{8}$
3	$3\frac{1}{4}$	10	$11\frac{1}{8}-\frac{1}{16}$	4	0	13	$2\frac{5}{8}-\frac{1}{16}$	4	$8\frac{3}{4}$	15	$6\frac{1}{8}$
3	$3\frac{1}{2}$	10	$11\frac{7}{8}-\frac{1}{16}$	4	$0\frac{1}{4}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	9	15	$6\frac{7}{8}$
3	$3\frac{3}{4}$	11	$0\frac{5}{8}-\frac{1}{16}$	4	$0\frac{1}{2}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$9\frac{1}{4}$	15	$7\frac{5}{8}-\frac{1}{16}$
3	4	11	$1\frac{1}{2}$	4	$0\frac{3}{4}$	13	5	4	$9\frac{1}{2}$	15	$8\frac{1}{2}$
3	$4\frac{1}{4}$	11	$2\frac{1}{4}-\frac{1}{16}$	4	1	13	$5\frac{3}{4}-\frac{1}{16}$	4	$9\frac{3}{4}$	15	$9\frac{1}{4}-\frac{1}{16}$
3	$4\frac{1}{2}$	11	$3\frac{1}{16}$	4	$1\frac{1}{4}$	13	$6\frac{1}{2}-\frac{1}{16}$	4	10	15	$10\frac{1}{16}$
3	$4\frac{3}{4}$	11	$3\frac{7}{8}$	4	$1\frac{1}{2}$	13	$7\frac{3}{8}$	4	$10\frac{1}{4}$	15	$10\frac{7}{8}$
3	5	11	$4\frac{5}{8}-\frac{1}{16}$	4	$1\frac{3}{4}$	13	$8\frac{1}{8}$	4	$10\frac{1}{2}$	15	$11\frac{5}{8}$
3	$5\frac{1}{4}$	11	$5\frac{3}{8}-\frac{1}{16}$	4	2	13	$8\frac{7}{8}$	4	$10\frac{3}{4}$	16	$0\frac{3}{8}$
3	$5\frac{1}{2}$	11	$6\frac{1}{8}-\frac{1}{16}$	4	$2\frac{1}{4}$	13	$9\frac{5}{8}-\frac{1}{16}$	4	11	16	$1\frac{1}{8}-\frac{1}{16}$
3	$5\frac{3}{4}$	11	7	4	$2\frac{1}{2}$	13	$10\frac{1}{2}$	4	$11\frac{1}{4}$	16	2
3	6	11	$7\frac{3}{4}-\frac{1}{16}$	4	$2\frac{3}{4}$	13	$11\frac{1}{4}-\frac{1}{16}$	4	$11\frac{1}{2}$	16	$2\frac{3}{4}-\frac{1}{16}$
3	$6\frac{1}{4}$	11	$8\frac{1}{2}-\frac{1}{16}$	4	3	14	$0\frac{1}{16}$	4	$11\frac{3}{4}$	16	$3\frac{1}{2}-\frac{1}{16}$
3	$6\frac{1}{2}$	11	$9\frac{3}{8}$	4	$3\frac{1}{4}$	14	$0\frac{7}{8}$	5	0	16	$4\frac{3}{8}$
3	$6\frac{3}{4}$	11	$10\frac{1}{8}-\frac{1}{16}$	4	$3\frac{1}{2}$	14	$1\frac{5}{8}$	5	$0\frac{1}{4}$	16	$5\frac{1}{8}$
3	7	11	$10\frac{7}{8}-\frac{1}{16}$	4	$3\frac{3}{4}$	14	$2\frac{3}{8}$	5	$0\frac{1}{2}$	16	$5\frac{7}{8}$
3	$7\frac{1}{4}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	4	14	$3\frac{1}{8}-\frac{1}{16}$	5	$0\frac{3}{4}$	16	$6\frac{5}{8}-\frac{1}{16}$
3	$7\frac{1}{2}$	12	$0\frac{1}{2}$	4	$4\frac{1}{4}$	14	4	5	1	16	$7\frac{1}{2}$
3	$7\frac{3}{4}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	$4\frac{1}{2}$	14	$4\frac{3}{4}-\frac{1}{16}$	5	$1\frac{1}{4}$	16	$8\frac{1}{4}-\frac{1}{16}$
3	8	12	$2\frac{1}{16}$	4	$4\frac{3}{4}$	14	$5\frac{1}{2}-\frac{1}{16}$	5	$1\frac{1}{2}$	16	$9\frac{1}{8}$
3	$8\frac{1}{4}$	12	$2\frac{7}{8}$	4	5	14	$6\frac{3}{8}$	5	$1\frac{3}{4}$	16	$9\frac{7}{8}$
3	$8\frac{1}{2}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$5\frac{1}{4}$	14	$7\frac{1}{8}$	5	2	16	$10\frac{5}{8}$
3	$8\frac{3}{4}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$5\frac{1}{2}$	14	$7\frac{7}{8}$	5	$2\frac{1}{4}$	16	$11\frac{3}{8}$
3	9	12	$5\frac{1}{8}-\frac{1}{16}$	4	$5\frac{3}{4}$	14	$8\frac{5}{8}-\frac{1}{16}$	5	$2\frac{1}{2}$	17	$0\frac{1}{8}-\frac{1}{16}$
3	$9\frac{1}{4}$	12	6	4	6	14	$9\frac{1}{2}$	5	$2\frac{3}{4}$	17	1
3	$9\frac{1}{2}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$6\frac{1}{4}$	14	$10\frac{1}{4}$	5	3	17	$1\frac{3}{4}-\frac{1}{16}$
3	$9\frac{3}{4}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	$6\frac{1}{2}$	14	$11\frac{1}{8}$	5	$3\frac{1}{4}$	17	$2\frac{1}{2}-\frac{1}{16}$
3	10	12	$8\frac{3}{8}$	4	$6\frac{3}{4}$	14	$11\frac{7}{8}$	5	$3\frac{1}{2}$	17	$3\frac{3}{8}$
3	$10\frac{1}{4}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	7	15	$0\frac{5}{8}$	5	$3\frac{3}{4}$	17	$4\frac{1}{8}$
3	$10\frac{1}{2}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$7\frac{1}{4}$	15	$1\frac{3}{8}$	5	4	17	$4\frac{7}{8}$
3	$10\frac{3}{4}$	12	$10\frac{5}{8}-\frac{1}{16}$	4	$7\frac{1}{2}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	$4\frac{1}{4}$	17	$5\frac{1}{8}-\frac{1}{16}$

# ANGLE-IRON RINGS (FLANGE OUTSIDE). 123

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	4 $\frac{1}{2}$	17	6 $\frac{1}{2}$	6	1 $\frac{1}{4}$	19	10	6	10	22	1 $\frac{1}{2}$
5	4 $\frac{3}{4}$	17	7 $\frac{1}{4}$	6	1 $\frac{1}{2}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	10 $\frac{1}{4}$	22	2 $\frac{1}{4}$
5	5	17	8 $\frac{1}{8}$	6	1 $\frac{3}{4}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	10 $\frac{1}{2}$	22	3
5	5 $\frac{1}{4}$	17	8 $\frac{7}{8}$	6	2	20	0 $\frac{1}{4}$ - $\frac{1}{16}$	6	10 $\frac{3}{4}$	22	3 $\frac{3}{4}$ - $\frac{1}{16}$
5	5 $\frac{1}{2}$	17	9 $\frac{5}{8}$	6	2 $\frac{1}{4}$	20	1 $\frac{1}{8}$	6	11	22	4 $\frac{1}{2}$ - $\frac{1}{16}$
5	5 $\frac{3}{4}$	17	10 $\frac{3}{8}$	6	2 $\frac{1}{2}$	20	1 $\frac{7}{8}$	6	11 $\frac{1}{4}$	22	5 $\frac{3}{8}$
5	6	17	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	2 $\frac{3}{4}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	11 $\frac{1}{2}$	22	6 $\frac{1}{8}$ - $\frac{1}{16}$
5	6 $\frac{1}{4}$	18	0	6	3	20	3 $\frac{1}{2}$	6	11 $\frac{3}{4}$	22	7
5	6 $\frac{1}{2}$	18	0 $\frac{3}{4}$ - $\frac{1}{16}$	6	3 $\frac{1}{4}$	20	4 $\frac{1}{4}$ - $\frac{1}{16}$	7	0	22	7 $\frac{3}{4}$
5	6 $\frac{3}{4}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$	6	3 $\frac{1}{2}$	20	5- $\frac{1}{16}$	7	0 $\frac{1}{4}$	22	8 $\frac{1}{2}$
5	7	18	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	3 $\frac{3}{4}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$	7	0 $\frac{1}{2}$	22	9 $\frac{1}{4}$ - $\frac{1}{16}$
5	7 $\frac{1}{4}$	18	3 $\frac{1}{8}$	6	4	20	6 $\frac{1}{2}$ - $\frac{1}{16}$	7	0 $\frac{3}{4}$	22	10 $\frac{1}{8}$
5	7 $\frac{1}{2}$	18	3 $\frac{7}{8}$	6	4 $\frac{1}{4}$	20	7 $\frac{3}{8}$	7	1	22	10 $\frac{7}{8}$
5	7 $\frac{3}{4}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	4 $\frac{1}{2}$	20	8 $\frac{1}{8}$ - $\frac{1}{16}$	7	1 $\frac{1}{4}$	22	11 $\frac{5}{8}$ - $\frac{1}{16}$
5	8	18	5 $\frac{1}{2}$	6	4 $\frac{3}{4}$	20	9	7	1 $\frac{1}{2}$	23	0 $\frac{1}{2}$
5	8 $\frac{1}{4}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$	6	5	20	9 $\frac{3}{4}$	7	1 $\frac{3}{4}$	23	1 $\frac{1}{4}$
5	8 $\frac{1}{2}$	18	7 $\frac{1}{16}$	6	5 $\frac{1}{4}$	20	10 $\frac{1}{2}$	7	2	23	2
5	8 $\frac{3}{4}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{1}{2}$	20	11 $\frac{1}{4}$ - $\frac{1}{16}$	7	2 $\frac{1}{4}$	23	2 $\frac{3}{4}$ - $\frac{1}{16}$
5	9	18	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{3}{4}$	21	0 $\frac{1}{8}$	7	2 $\frac{1}{2}$	23	3 $\frac{1}{2}$ - $\frac{1}{16}$
5	9 $\frac{1}{4}$	18	9 $\frac{3}{8}$	6	6	21	0 $\frac{7}{8}$	7	2 $\frac{3}{4}$	23	4 $\frac{3}{8}$
5	9 $\frac{1}{2}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{1}{4}$	21	1 $\frac{5}{8}$ - $\frac{1}{16}$	7	3	23	5 $\frac{1}{8}$ - $\frac{1}{16}$
5	9 $\frac{3}{4}$	18	11	6	6 $\frac{1}{2}$	21	2 $\frac{1}{2}$	7	3 $\frac{1}{4}$	23	6
5	10	18	11 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{3}{4}$	21	3 $\frac{1}{4}$	7	3 $\frac{1}{2}$	23	6 $\frac{3}{4}$
5	10 $\frac{1}{4}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$	6	7	21	4	7	3 $\frac{3}{4}$	23	7 $\frac{1}{2}$
5	10 $\frac{1}{2}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{1}{4}$	21	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	4	23	8 $\frac{1}{4}$ - $\frac{1}{16}$
5	10 $\frac{3}{4}$	19	2 $\frac{1}{8}$	6	7 $\frac{1}{2}$	21	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	4 $\frac{1}{4}$	23	9 $\frac{1}{16}$
5	11	19	2 $\frac{7}{8}$	6	7 $\frac{3}{4}$	21	6 $\frac{3}{8}$	7	4 $\frac{1}{2}$	23	9 $\frac{7}{8}$
5	11 $\frac{1}{4}$	19	3 $\frac{5}{8}$ - $\frac{1}{16}$	6	8	21	7 $\frac{1}{8}$ - $\frac{1}{16}$	7	4 $\frac{3}{4}$	23	10 $\frac{5}{8}$ - $\frac{1}{16}$
5	11 $\frac{1}{2}$	19	4 $\frac{1}{2}$	6	8 $\frac{1}{4}$	21	8	7	5	23	11 $\frac{3}{8}$ - $\frac{1}{16}$
5	11 $\frac{3}{4}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{1}{2}$	21	8 $\frac{3}{4}$	7	5 $\frac{1}{4}$	24	0 $\frac{1}{8}$ - $\frac{1}{16}$
6	0	19	6- $\frac{1}{16}$	6	8 $\frac{3}{4}$	21	9 $\frac{1}{2}$	7	5 $\frac{1}{2}$	24	1
6	0 $\frac{1}{4}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$	6	9	21	10 $\frac{1}{4}$ - $\frac{1}{16}$	7	5 $\frac{3}{4}$	24	1 $\frac{3}{4}$ - $\frac{1}{16}$
6	0 $\frac{1}{2}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{1}{4}$	21	11 $\frac{1}{8}$	7	6	24	2 $\frac{1}{2}$ - $\frac{1}{16}$
6	0 $\frac{3}{4}$	19	8 $\frac{3}{8}$	6	9 $\frac{1}{2}$	21	11 $\frac{7}{8}$	7	6 $\frac{1}{4}$	24	3 $\frac{3}{8}$
6	1	19	9 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{3}{4}$	22	0 $\frac{5}{8}$ - $\frac{1}{16}$	7	6 $\frac{1}{2}$	24	4 $\frac{1}{8}$ - $\frac{1}{16}$

# 124 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	$6\frac{3}{4}$	24	5	8	$3\frac{1}{2}$	26	$8\frac{3}{8}-\frac{1}{16}$	9	$0\frac{1}{4}$	28	$11\frac{7}{8}$
7	7	24	$5\frac{3}{4}$	8	$3\frac{3}{4}$	26	$9\frac{1}{8}-\frac{1}{16}$	9	$0\frac{1}{2}$	29	$0\frac{5}{8}-\frac{1}{16}$
7	$7\frac{1}{4}$	24	$6\frac{1}{2}$	8	4	26	10	9	$0\frac{3}{4}$	29	$1\frac{1}{2}$
7	$7\frac{1}{2}$	24	$7\frac{1}{4}-\frac{1}{16}$	8	$4\frac{1}{4}$	26	$10\frac{3}{4}$	9	1	29	$2\frac{1}{4}$
7	$7\frac{3}{4}$	24	$8\frac{1}{8}$	8	$4\frac{1}{2}$	26	$11\frac{1}{2}-\frac{1}{16}$	9	$1\frac{1}{4}$	29	3
7	8	24	$8\frac{7}{8}$	8	$4\frac{3}{4}$	27	$0\frac{1}{4}-\frac{1}{16}$	9	$1\frac{1}{2}$	29	$3\frac{3}{4}-\frac{1}{16}$
7	$8\frac{1}{4}$	24	$9\frac{3}{8}-\frac{1}{16}$	8	5	27	$1\frac{1}{16}$	9	$1\frac{3}{4}$	29	$4\frac{5}{8}$
7	$8\frac{1}{2}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	$5\frac{1}{4}$	27	$1\frac{7}{8}-\frac{1}{16}$	9	2	29	$5\frac{3}{8}$
7	$8\frac{3}{4}$	24	$11\frac{1}{8}-\frac{1}{16}$	8	$5\frac{1}{2}$	27	$2\frac{5}{8}-\frac{1}{16}$	9	$2\frac{1}{4}$	29	$6\frac{1}{8}-\frac{1}{16}$
7	9	25	0	8	$5\frac{3}{4}$	27	$3\frac{1}{2}$	9	$2\frac{1}{2}$	29	7
7	$9\frac{1}{4}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	6	27	$4\frac{1}{4}$	9	$2\frac{3}{4}$	29	$7\frac{3}{4}$
7	$9\frac{1}{2}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$6\frac{1}{4}$	27	$5\frac{1}{16}$	9	3	29	$8\frac{1}{2}-\frac{1}{16}$
7	$9\frac{3}{4}$	25	$2\frac{3}{8}$	8	$6\frac{1}{2}$	27	$5\frac{3}{4}-\frac{1}{16}$	9	$3\frac{1}{4}$	29	$9\frac{1}{4}-\frac{1}{16}$
7	10	25	$3\frac{1}{8}-\frac{1}{16}$	8	$6\frac{3}{4}$	27	$6\frac{5}{8}$	9	$3\frac{1}{2}$	29	$10\frac{1}{8}$
7	$10\frac{1}{4}$	25	$3\frac{7}{8}-\frac{1}{16}$	8	7	27	$7\frac{3}{8}-\frac{1}{16}$	9	$3\frac{3}{4}$	29	$10\frac{7}{8}$
7	$10\frac{1}{2}$	25	$4\frac{5}{8}-\frac{1}{16}$	8	$7\frac{1}{4}$	27	$8\frac{1}{8}-\frac{1}{16}$	9	4	29	$11\frac{5}{8}-\frac{1}{16}$
7	$10\frac{3}{4}$	25	$5\frac{1}{2}$	8	$7\frac{1}{2}$	27	9	9	$4\frac{1}{4}$	30	$0\frac{3}{8}-\frac{1}{16}$
7	11	25	$6\frac{1}{4}-\frac{1}{16}$	8	$7\frac{3}{4}$	27	$9\frac{3}{4}$	9	$4\frac{1}{2}$	30	$1\frac{1}{4}$
7	$11\frac{1}{4}$	25	$7\frac{1}{8}$	8	8	27	$10\frac{1}{2}$	9	$4\frac{3}{4}$	30	2
7	$11\frac{1}{2}$	25	$7\frac{7}{8}$	8	$8\frac{1}{4}$	27	$11\frac{1}{4}-\frac{1}{16}$	9	5	30	$2\frac{3}{4}-\frac{1}{16}$
7	$11\frac{3}{4}$	25	$8\frac{5}{8}-\frac{1}{16}$	8	$8\frac{1}{2}$	28	$0\frac{1}{8}$	9	$5\frac{1}{4}$	30	$3\frac{5}{8}$
8	0	25	$9\frac{3}{8}-\frac{1}{16}$	8	$8\frac{3}{4}$	28	$0\frac{7}{8}$	9	$5\frac{1}{2}$	30	$4\frac{3}{8}$
8	$0\frac{1}{4}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	9	28	$1\frac{5}{8}-\frac{1}{16}$	9	$5\frac{3}{4}$	30	$5\frac{1}{8}-\frac{1}{16}$
8	$0\frac{1}{2}$	25	11	8	$9\frac{1}{4}$	28	$2\frac{1}{2}$	9	6	30	6
8	$0\frac{3}{4}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$9\frac{1}{2}$	28	$3\frac{1}{4}$	9	$6\frac{1}{4}$	30	$6\frac{3}{4}$
8	1	26	$0\frac{1}{2}-\frac{1}{16}$	8	$9\frac{3}{4}$	28	4	9	$6\frac{1}{2}$	30	$7\frac{1}{2}$
8	$1\frac{1}{4}$	26	$1\frac{3}{8}$	8	10	28	$4\frac{7}{8}$	9	$6\frac{3}{4}$	30	$8\frac{1}{4}-\frac{1}{16}$
8	$1\frac{1}{2}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$10\frac{1}{4}$	28	$5\frac{5}{8}$	9	7	30	$9\frac{1}{8}$
8	$1\frac{3}{4}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$10\frac{1}{2}$	28	$6\frac{3}{8}$	9	$7\frac{1}{4}$	30	$9\frac{7}{8}$
8	2	26	$3\frac{5}{8}-\frac{1}{16}$	8	$10\frac{3}{4}$	28	$7\frac{1}{8}-\frac{1}{16}$	9	$7\frac{1}{2}$	30	$10\frac{5}{8}-\frac{1}{16}$
8	$2\frac{1}{4}$	26	$4\frac{1}{2}$	8	11	28	8	9	$7\frac{3}{4}$	30	$11\frac{3}{8}-\frac{1}{16}$
8	$2\frac{1}{2}$	26	$5\frac{1}{4}-\frac{1}{16}$	8	$11\frac{1}{4}$	28	$8\frac{3}{4}$	9	8	31	$0\frac{1}{4}$
8	$2\frac{3}{4}$	26	$6\frac{1}{16}$	8	$11\frac{1}{2}$	28	$9\frac{1}{2}$	9	$8\frac{1}{4}$	31	1
8	3	26	$6\frac{3}{4}-\frac{1}{16}$	8	$11\frac{3}{4}$	28	$10\frac{1}{4}-\frac{1}{16}$	9	$8\frac{1}{2}$	31	$1\frac{3}{4}-\frac{1}{16}$
8	$3\frac{1}{4}$	26	$7\frac{5}{8}$	9	0	28	$11\frac{3}{8}$	9	$8\frac{3}{4}$	31	$2\frac{5}{8}$



ANGLE-IRON RINGS (FLANGE OUTSIDE). 125

DIAGONAL MEASUREMENT AT THE ROOT, 1¼-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	9	31	3 <sup>3</sup> / <sub>8</sub>	10	5 <sup>3</sup> / <sub>4</sub>	33	6 <sup>7</sup> / <sub>8</sub>	11	2 <sup>1</sup> / <sub>2</sub>	35	10 <sup>3</sup> / <sub>8</sub>
9	9 <sup>1</sup> / <sub>4</sub>	31	4 <sup>1</sup> / <sub>8</sub>	10	6	33	7 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	2 <sup>3</sup> / <sub>4</sub>	35	11 <sup>1</sup> / <sub>8</sub>
9	9 <sup>1</sup> / <sub>2</sub>	31	5	10	6 <sup>1</sup> / <sub>4</sub>	33	8 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	3	35	11 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
9	9 <sup>3</sup> / <sub>4</sub>	31	5 <sup>3</sup> / <sub>4</sub>	10	6 <sup>1</sup> / <sub>2</sub>	33	9 <sup>1</sup> / <sub>4</sub>	11	3 <sup>1</sup> / <sub>4</sub>	36	0 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
9	10	31	6 <sup>1</sup> / <sub>2</sub>	10	6 <sup>3</sup> / <sub>4</sub>	33	10	11	3 <sup>1</sup> / <sub>2</sub>	36	1 <sup>1</sup> / <sub>2</sub>
9	10 <sup>1</sup> / <sub>4</sub>	31	7 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	10	7	33	10 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	11	3 <sup>3</sup> / <sub>4</sub>	36	2 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
9	10 <sup>1</sup> / <sub>2</sub>	31	8 <sup>1</sup> / <sub>8</sub>	10	7 <sup>1</sup> / <sub>4</sub>	33	11 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	11	4	36	3- <sup>1</sup> / <sub>16</sub>
9	10 <sup>3</sup> / <sub>4</sub>	31	8 <sup>7</sup> / <sub>8</sub>	10	7 <sup>1</sup> / <sub>2</sub>	34	0 <sup>3</sup> / <sub>8</sub>	11	4 <sup>1</sup> / <sub>4</sub>	36	3 <sup>7</sup> / <sub>8</sub>
9	11	31	9 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	7 <sup>3</sup> / <sub>4</sub>	34	1 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	4 <sup>1</sup> / <sub>2</sub>	36	4 <sup>5</sup> / <sub>8</sub>
9	11 <sup>1</sup> / <sub>4</sub>	31	10 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	8	34	1 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	4 <sup>3</sup> / <sub>4</sub>	36	5 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
9	11 <sup>1</sup> / <sub>2</sub>	31	11 <sup>1</sup> / <sub>4</sub>	10	8 <sup>1</sup> / <sub>4</sub>	34	2 <sup>3</sup> / <sub>4</sub>	11	5	36	6 <sup>1</sup> / <sub>4</sub>
9	11 <sup>3</sup> / <sub>4</sub>	32	0	10	8 <sup>1</sup> / <sub>2</sub>	34	3 <sup>1</sup> / <sub>2</sub>	11	5 <sup>1</sup> / <sub>4</sub>	36	7
10	0	32	0 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	10	8 <sup>3</sup> / <sub>4</sub>	34	4 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	11	5 <sup>1</sup> / <sub>2</sub>	36	7 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
10	0 <sup>1</sup> / <sub>4</sub>	32	1 <sup>5</sup> / <sub>8</sub>	10	9	34	5- <sup>1</sup> / <sub>16</sub>	11	5 <sup>3</sup> / <sub>4</sub>	36	8 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>
10	0 <sup>1</sup> / <sub>2</sub>	32	2 <sup>3</sup> / <sub>8</sub>	10	9 <sup>1</sup> / <sub>4</sub>	34	5 <sup>7</sup> / <sub>8</sub>	11	6	36	9 <sup>3</sup> / <sub>8</sub>
10	0 <sup>3</sup> / <sub>4</sub>	32	3 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	9 <sup>1</sup> / <sub>2</sub>	34	6 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	6 <sup>1</sup> / <sub>4</sub>	36	10 <sup>1</sup> / <sub>8</sub>
10	1	32	3 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	9 <sup>3</sup> / <sub>4</sub>	34	7 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	6 <sup>1</sup> / <sub>2</sub>	36	10 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
10	1 <sup>1</sup> / <sub>4</sub>	32	4 <sup>3</sup> / <sub>4</sub>	10	10	34	8 <sup>1</sup> / <sub>4</sub>	11	6 <sup>3</sup> / <sub>4</sub>	36	11 <sup>3</sup> / <sub>4</sub>
10	1 <sup>1</sup> / <sub>2</sub>	32	5 <sup>1</sup> / <sub>2</sub>	10	10 <sup>1</sup> / <sub>4</sub>	34	9	11	7	37	0 <sup>1</sup> / <sub>2</sub>
10	1 <sup>3</sup> / <sub>4</sub>	32	6 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	10	10 <sup>1</sup> / <sub>2</sub>	34	9 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	11	7 <sup>1</sup> / <sub>4</sub>	37	1 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
10	2	32	7 <sup>1</sup> / <sub>8</sub>	10	10 <sup>3</sup> / <sub>4</sub>	34	10 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	11	7 <sup>1</sup> / <sub>2</sub>	37	2- <sup>1</sup> / <sub>16</sub>
10	2 <sup>1</sup> / <sub>4</sub>	32	7 <sup>7</sup> / <sub>8</sub>	10	11	34	11 <sup>3</sup> / <sub>8</sub>	11	7 <sup>3</sup> / <sub>4</sub>	37	2 <sup>7</sup> / <sub>8</sub>
10	2 <sup>1</sup> / <sub>2</sub>	32	8 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	11 <sup>1</sup> / <sub>4</sub>	35	0 <sup>1</sup> / <sub>8</sub>	11	8	37	3 <sup>5</sup> / <sub>8</sub>
10	2 <sup>3</sup> / <sub>4</sub>	32	9 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	10	11 <sup>1</sup> / <sub>2</sub>	35	0 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	8 <sup>1</sup> / <sub>4</sub>	37	4 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
10	3	32	10 <sup>1</sup> / <sub>4</sub>	10	11 <sup>3</sup> / <sub>4</sub>	35	1 <sup>3</sup> / <sub>4</sub>	11	8 <sup>1</sup> / <sub>2</sub>	37	5 <sup>1</sup> / <sub>4</sub>
10	3 <sup>1</sup> / <sub>4</sub>	32	11	11	0	35	2 <sup>1</sup> / <sub>2</sub>	11	8 <sup>3</sup> / <sub>4</sub>	37	6
10	3 <sup>1</sup> / <sub>2</sub>	32	11 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	11	0 <sup>1</sup> / <sub>4</sub>	35	3 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	11	9	37	6 <sup>3</sup> / <sub>4</sub>
10	3 <sup>3</sup> / <sub>4</sub>	33	0 <sup>5</sup> / <sub>8</sub>	11	0 <sup>1</sup> / <sub>2</sub>	35	4- <sup>1</sup> / <sub>16</sub>	11	9 <sup>1</sup> / <sub>4</sub>	37	7 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>
10	4	33	1 <sup>5</sup> / <sub>8</sub>	11	0 <sup>3</sup> / <sub>4</sub>	35	4 <sup>7</sup> / <sub>8</sub>	11	9 <sup>1</sup> / <sub>2</sub>	37	8 <sup>3</sup> / <sub>8</sub>
10	4 <sup>1</sup> / <sub>4</sub>	33	2 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	1	35	5 <sup>5</sup> / <sub>8</sub>	11	9 <sup>3</sup> / <sub>4</sub>	37	9 <sup>1</sup> / <sub>8</sub>
10	4 <sup>1</sup> / <sub>2</sub>	33	3	11	1 <sup>1</sup> / <sub>4</sub>	35	6 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	11	10	37	9 <sup>7</sup> / <sub>8</sub>
10	4 <sup>3</sup> / <sub>4</sub>	33	3 <sup>3</sup> / <sub>4</sub>	11	1 <sup>1</sup> / <sub>2</sub>	35	7 <sup>1</sup> / <sub>4</sub>	11	10 <sup>1</sup> / <sub>4</sub>	37	10 <sup>3</sup> / <sub>4</sub>
10	5	33	4 <sup>1</sup> / <sub>2</sub>	11	1 <sup>3</sup> / <sub>4</sub>	35	8	11	10 <sup>1</sup> / <sub>2</sub>	37	11 <sup>1</sup> / <sub>2</sub>
10	5 <sup>1</sup> / <sub>4</sub>	33	5 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	11	2	35	8 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	11	10 <sup>3</sup> / <sub>4</sub>	38	0 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
10	5 <sup>1</sup> / <sub>2</sub>	33	6 <sup>1</sup> / <sub>16</sub>	11	2 <sup>1</sup> / <sub>4</sub>	35	9 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	11	11	38	1 <sup>1</sup> / <sub>8</sub>

# 126 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	$11\frac{1}{4}$	38	$1\frac{7}{8}$	12	$3\frac{3}{4}$	39	4	12	$8\frac{1}{4}$	40	$6\frac{1}{8}$
11	$11\frac{1}{2}$	38	$2\frac{5}{8}$	12	4	39	$4\frac{3}{4}-\frac{1}{16}$	12	$8\frac{1}{2}$	40	$6\frac{7}{8}-\frac{1}{16}$
11	$11\frac{3}{4}$	38	$3\frac{3}{8}$	12	$4\frac{1}{4}$	39	$5\frac{1}{2}-\frac{1}{16}$	12	$8\frac{3}{4}$	40	$7\frac{3}{4}$
12	0	38	$4\frac{1}{8}-\frac{1}{16}$	12	$4\frac{1}{2}$	39	$6\frac{3}{8}$	12	9	40	$8\frac{1}{2}$
12	$0\frac{1}{4}$	38	5	12	$4\frac{3}{4}$	39	$7\frac{1}{8}$	12	$9\frac{1}{4}$	40	$9\frac{1}{4}-\frac{1}{16}$
12	$0\frac{1}{2}$	38	$5\frac{3}{4}-\frac{1}{16}$	12	5	39	$7\frac{7}{8}-\frac{1}{16}$	12	$9\frac{1}{2}$	40	$10-\frac{1}{16}$
12	$0\frac{3}{4}$	38	$6\frac{5}{8}$	12	$5\frac{1}{4}$	39	$8\frac{5}{8}-\frac{1}{16}$	12	$9\frac{3}{4}$	40	$10\frac{7}{8}$
12	1	38	$7\frac{3}{8}$	12	$5\frac{1}{2}$	39	$9\frac{1}{2}$	12	10	40	$11\frac{5}{8}-\frac{1}{16}$
12	$1\frac{1}{4}$	38	$8\frac{1}{8}$	12	$5\frac{3}{4}$	39	$10\frac{1}{4}-\frac{1}{16}$	12	$10\frac{1}{4}$	41	$0\frac{3}{8}-\frac{1}{16}$
12	$1\frac{1}{2}$	38	$8\frac{7}{8}-\frac{1}{16}$	12	6	39	$11\frac{1}{16}$	12	$10\frac{1}{2}$	41	$1\frac{1}{4}$
12	$1\frac{3}{4}$	38	$9\frac{3}{4}$	12	$6\frac{1}{4}$	39	$11\frac{3}{4}-\frac{1}{16}$	12	$10\frac{3}{4}$	41	$2-\frac{1}{16}$
12	2	38	$10\frac{1}{2}$	12	$6\frac{1}{2}$	40	$0\frac{5}{8}$	12	11	41	$2\frac{7}{8}$
12	$2\frac{1}{4}$	38	$11\frac{1}{4}$	12	$6\frac{3}{4}$	40	$1\frac{3}{8}-\frac{1}{16}$	12	$11\frac{1}{4}$	41	$3\frac{5}{8}$
12	$2\frac{1}{2}$	39	$0-\frac{1}{16}$	12	7	40	$2\frac{1}{8}-\frac{1}{16}$	12	$11\frac{1}{2}$	41	$4\frac{3}{8}$
12	$2\frac{3}{4}$	39	$0\frac{7}{8}$	12	$7\frac{1}{4}$	40	$2\frac{7}{8}-\frac{1}{16}$	12	$11\frac{3}{4}$	41	$5\frac{1}{8}-\frac{1}{16}$
12	3	39	$1\frac{5}{8}$	12	$7\frac{1}{2}$	40	$3\frac{3}{4}-\frac{1}{16}$	13	0	41	6
12	$3\frac{1}{4}$	39	$2\frac{3}{8}-\frac{1}{16}$	12	$7\frac{3}{4}$	40	$4\frac{1}{2}-\frac{1}{16}$				
12	$3\frac{1}{2}$	39	$3\frac{1}{4}$	12	8	40	$5\frac{1}{4}-\frac{1}{16}$				

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	3	$10\frac{1}{4}-\frac{1}{16}$	1	$2\frac{3}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$5\frac{1}{2}$	5	$3\frac{1}{2}-\frac{1}{16}$
1	$0\frac{1}{4}$	3	$11\frac{1}{16}$	1	3	4	$7\frac{3}{4}$	1	$5\frac{3}{4}$	5	$4\frac{3}{8}$
1	$0\frac{1}{2}$	3	$11\frac{7}{8}$	1	$3\frac{1}{4}$	4	$8\frac{1}{2}$	1	6	5	$5\frac{1}{8}-\frac{1}{16}$
1	$0\frac{3}{4}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$3\frac{1}{2}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$6\frac{1}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$
1	1	4	$1\frac{3}{8}-\frac{1}{16}$	1	$3\frac{3}{4}$	4	$10\frac{1}{16}$	1	$6\frac{1}{2}$	5	$6\frac{3}{4}$
1	$1\frac{1}{4}$	4	$2\frac{1}{4}$	1	4	4	$10\frac{7}{8}$	1	$6\frac{3}{4}$	5	$7\frac{1}{2}$
1	$1\frac{1}{2}$	4	$3\frac{1}{16}$	1	$4\frac{1}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$	1	7	5	$8\frac{1}{4}-\frac{1}{16}$
1	$1\frac{3}{4}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$4\frac{1}{2}$	5	$0\frac{3}{8}-\frac{1}{16}$	1	$7\frac{1}{4}$	5	$9\frac{1}{16}$
1	2	4	$4\frac{1}{2}-\frac{1}{16}$	1	$4\frac{3}{4}$	5	$1\frac{1}{4}$	1	$7\frac{1}{2}$	5	$9\frac{7}{8}$
1	$2\frac{1}{4}$	4	$5\frac{3}{8}$	1	5	5	2	1	$7\frac{3}{4}$	5	$10\frac{5}{8}$
1	$2\frac{1}{2}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$5\frac{1}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	1	8	5	$11\frac{3}{8}-\frac{1}{16}$

# ANGLE-IRON RINGS (FLANGE OUTSIDE). 127

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	8 $\frac{1}{4}$	6	0 $\frac{1}{4}$	2	5	8	3 $\frac{3}{4}$	3	1 $\frac{3}{4}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$
1	8 $\frac{1}{2}$	6	1	2	5 $\frac{1}{4}$	8	4 $\frac{1}{2}$	3	2	10	8
1	8 $\frac{3}{4}$	6	1 $\frac{3}{4}$ - $\frac{1}{16}$	2	5 $\frac{1}{2}$	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{1}{4}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$
1	9	6	2 $\frac{1}{2}$ - $\frac{1}{16}$	2	5 $\frac{3}{4}$	8	6 $\frac{1}{16}$	3	2 $\frac{1}{2}$	10	9 $\frac{5}{8}$
1	9 $\frac{1}{4}$	6	3 $\frac{3}{8}$	2	6	8	6 $\frac{7}{8}$	3	2 $\frac{3}{4}$	10	10 $\frac{3}{8}$
1	9 $\frac{1}{2}$	6	4 $\frac{1}{8}$	2	6 $\frac{1}{4}$	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	3	3	10	11 $\frac{1}{8}$ - $\frac{1}{16}$
1	9 $\frac{3}{4}$	6	4 $\frac{7}{8}$ - $\frac{1}{16}$	2	6 $\frac{1}{2}$	8	8 $\frac{1}{2}$	3	3 $\frac{1}{4}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$
1	10	6	5 $\frac{3}{4}$	2	6 $\frac{3}{4}$	8	9 $\frac{1}{4}$	3	3 $\frac{1}{2}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$
1	10 $\frac{1}{4}$	6	6 $\frac{1}{2}$	2	7	8	10	3	3 $\frac{3}{4}$	11	1 $\frac{1}{2}$
1	10 $\frac{1}{2}$	6	7 $\frac{1}{4}$ - $\frac{1}{16}$	2	7 $\frac{1}{4}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	4	11	2 $\frac{1}{4}$ - $\frac{1}{16}$
1	10 $\frac{3}{4}$	6	8 $\frac{1}{8}$	2	7 $\frac{1}{2}$	8	11 $\frac{5}{8}$	3	4 $\frac{1}{4}$	11	3 $\frac{1}{16}$
1	11	6	8 $\frac{7}{8}$	2	7 $\frac{3}{4}$	9	0 $\frac{3}{8}$	3	4 $\frac{1}{2}$	11	3 $\frac{7}{8}$
1	11 $\frac{1}{4}$	6	9 $\frac{5}{8}$ - $\frac{1}{16}$	2	8	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{3}{4}$	11	4 $\frac{5}{8}$ - $\frac{1}{16}$
1	11 $\frac{1}{2}$	6	10 $\frac{3}{8}$ - $\frac{1}{16}$	2	8 $\frac{1}{4}$	9	2	3	5	11	5 $\frac{3}{8}$ - $\frac{1}{16}$
1	11 $\frac{3}{4}$	6	11 $\frac{1}{4}$	2	8 $\frac{1}{2}$	9	2 $\frac{3}{4}$	3	5 $\frac{1}{4}$	11	6 $\frac{1}{8}$ - $\frac{1}{16}$
2	0	7	0	2	8 $\frac{3}{4}$	9	3 $\frac{1}{2}$	3	5 $\frac{1}{2}$	11	7
2	0 $\frac{1}{4}$	7	0 $\frac{3}{4}$ - $\frac{1}{16}$	2	9	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	5 $\frac{3}{4}$	11	7 $\frac{3}{4}$ - $\frac{1}{16}$
2	0 $\frac{1}{2}$	7	1 $\frac{1}{2}$ - $\frac{1}{16}$	2	9 $\frac{1}{4}$	9	5 $\frac{1}{16}$	3	6	11	8 $\frac{1}{2}$ - $\frac{1}{16}$
2	0 $\frac{3}{4}$	7	2 $\frac{3}{8}$	2	9 $\frac{1}{2}$	9	5 $\frac{7}{8}$	3	6 $\frac{1}{4}$	11	9 $\frac{3}{8}$
2	1	7	3 $\frac{1}{8}$	2	9 $\frac{3}{4}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$	3	6 $\frac{1}{2}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$
2	1 $\frac{1}{4}$	7	3 $\frac{3}{8}$ - $\frac{1}{16}$	2	10	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	6 $\frac{3}{4}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$
2	1 $\frac{1}{2}$	7	4 $\frac{3}{4}$	2	10 $\frac{1}{4}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	7	11	11 $\frac{5}{8}$ - $\frac{1}{16}$
2	1 $\frac{3}{4}$	7	5 $\frac{1}{2}$	2	10 $\frac{1}{2}$	9	9	3	7 $\frac{1}{4}$	12	0 $\frac{1}{2}$
2	2	7	6 $\frac{1}{4}$ - $\frac{1}{16}$	2	10 $\frac{3}{4}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{1}{2}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$
2	2 $\frac{1}{4}$	7	7 $\frac{1}{16}$	2	11	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	7 $\frac{3}{4}$	12	2 $\frac{1}{16}$
2	2 $\frac{1}{2}$	7	7 $\frac{7}{8}$	2	11 $\frac{1}{4}$	9	11 $\frac{3}{8}$	3	8	12	2 $\frac{7}{8}$
2	2 $\frac{3}{4}$	7	8 $\frac{5}{8}$	2	11 $\frac{1}{2}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{1}{4}$	12	3 $\frac{5}{8}$ - $\frac{1}{16}$
2	3	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	2	11 $\frac{3}{4}$	10	1	3	8 $\frac{1}{2}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$
2	3 $\frac{1}{4}$	7	10 $\frac{1}{4}$	3	0	10	1 $\frac{3}{4}$	3	8 $\frac{3}{4}$	12	5 $\frac{1}{8}$ - $\frac{1}{16}$
2	3 $\frac{1}{2}$	7	11	3	0 $\frac{1}{4}$	10	2 $\frac{1}{2}$	3	9	12	6
2	3 $\frac{3}{4}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{1}{2}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{1}{4}$	12	6 $\frac{3}{4}$ - $\frac{1}{16}$
2	4	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	0 $\frac{3}{4}$	10	4 $\frac{1}{8}$	3	9 $\frac{1}{2}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$
2	4 $\frac{1}{4}$	8	1 $\frac{5}{8}$	3	1	10	4 $\frac{7}{8}$	3	9 $\frac{3}{4}$	12	8 $\frac{3}{8}$
2	4 $\frac{1}{2}$	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{1}{4}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	10	12	9 $\frac{5}{8}$ - $\frac{1}{16}$
2	4 $\frac{3}{4}$	8	3	3	1 $\frac{1}{2}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	10 $\frac{1}{4}$	12	9 $\frac{7}{8}$ - $\frac{1}{16}$

128 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$10\frac{1}{2}$	12	$10\frac{5}{8}-\frac{1}{16}$	4	$7\frac{1}{4}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	4	17	$5\frac{5}{8}-\frac{1}{16}$
3	$10\frac{3}{4}$	12	$11\frac{1}{2}$	4	$7\frac{1}{2}$	15	3	5	$4\frac{1}{4}$	17	$6\frac{1}{2}$
3	11	13	$0\frac{1}{4}-\frac{1}{16}$	4	$7\frac{3}{4}$	15	$3\frac{3}{4}-\frac{1}{16}$	5	$4\frac{1}{2}$	17	$7\frac{1}{4}$
3	$11\frac{1}{4}$	13	$1\frac{1}{16}$	4	8	15	$4\frac{1}{2}-\frac{1}{16}$	5	$4\frac{3}{4}$	17	$8\frac{1}{8}$
3	$11\frac{1}{2}$	13	$1\frac{7}{8}$	4	$8\frac{1}{4}$	15	$5\frac{3}{8}$	5	5	17	$8\frac{7}{8}$
3	$11\frac{3}{4}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	$8\frac{1}{2}$	15	$6\frac{1}{8}$	5	$5\frac{1}{4}$	17	$9\frac{5}{8}$
4	0	13	$3\frac{3}{8}-\frac{1}{16}$	4	$8\frac{3}{4}$	15	$6\frac{7}{8}$	5	$5\frac{1}{2}$	17	$10\frac{3}{8}$
4	$0\frac{1}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	9	15	$7\frac{5}{8}-\frac{1}{16}$	5	$5\frac{3}{4}$	17	$11\frac{1}{8}-\frac{1}{16}$
4	$0\frac{1}{2}$	13	5	4	$9\frac{1}{4}$	15	$8\frac{1}{2}$	5	6	18	0
4	$0\frac{3}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$	4	$9\frac{1}{2}$	15	$9\frac{1}{4}-\frac{1}{16}$	5	$6\frac{1}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$
4	1	13	$6\frac{1}{2}-\frac{1}{16}$	4	$9\frac{3}{4}$	15	$10\frac{1}{16}$	5	$6\frac{1}{2}$	18	$1\frac{1}{2}-\frac{1}{16}$
4	$1\frac{1}{4}$	13	$7\frac{3}{8}$	4	10	15	$10\frac{7}{8}$	5	$6\frac{3}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$
4	$1\frac{1}{2}$	13	$8\frac{1}{8}$	4	$10\frac{1}{4}$	15	$11\frac{5}{8}$	5	7	18	$3\frac{1}{8}$
4	$1\frac{3}{4}$	13	$8\frac{7}{8}$	4	$10\frac{1}{2}$	16	$0\frac{3}{8}$	5	$7\frac{1}{4}$	18	$3\frac{7}{8}$
4	2	13	$9\frac{5}{8}-\frac{1}{16}$	4	$10\frac{3}{4}$	16	$1\frac{1}{8}-\frac{1}{16}$	5	$7\frac{1}{2}$	18	$4\frac{5}{8}-\frac{1}{16}$
4	$2\frac{1}{4}$	13	$10\frac{1}{2}$	4	11	16	2	5	$7\frac{3}{4}$	18	$5\frac{1}{2}$
4	$2\frac{1}{2}$	13	$11\frac{1}{4}-\frac{1}{16}$	4	$11\frac{1}{4}$	16	$2\frac{3}{4}-\frac{1}{16}$	5	8	18	$6\frac{1}{4}-\frac{1}{16}$
4	$2\frac{3}{4}$	14	$0\frac{1}{16}$	4	$11\frac{1}{2}$	16	$3\frac{1}{2}-\frac{1}{16}$	5	$8\frac{1}{4}$	18	$7\frac{1}{16}$
4	3	14	$0\frac{7}{8}$	4	$11\frac{3}{4}$	16	$4\frac{3}{8}$	5	$8\frac{1}{2}$	18	$7\frac{3}{4}-\frac{1}{16}$
4	$3\frac{1}{4}$	14	$1\frac{5}{8}$	5	0	16	$5\frac{1}{8}$	5	$8\frac{3}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$
4	$3\frac{1}{2}$	14	$2\frac{3}{8}$	5	$0\frac{1}{4}$	16	$5\frac{7}{8}$	5	9	18	$9\frac{3}{8}$
4	$3\frac{3}{4}$	14	$3\frac{1}{8}-\frac{1}{16}$	5	$0\frac{1}{2}$	16	$6\frac{5}{8}-\frac{1}{16}$	5	$9\frac{1}{4}$	18	$10\frac{1}{8}-\frac{1}{16}$
4	4	14	4	5	$0\frac{3}{4}$	16	$7\frac{1}{2}$	5	$9\frac{1}{2}$	18	11
4	$4\frac{1}{4}$	14	$4\frac{3}{4}-\frac{1}{16}$	5	1	16	$8\frac{1}{4}-\frac{1}{16}$	5	$9\frac{3}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$
4	$4\frac{1}{2}$	14	$5\frac{1}{2}-\frac{1}{16}$	5	$1\frac{1}{4}$	16	$9\frac{1}{8}$	5	10	19	$0\frac{1}{2}-\frac{1}{16}$
4	$4\frac{3}{4}$	14	$6\frac{3}{8}$	5	$1\frac{1}{2}$	16	$9\frac{7}{8}$	5	$10\frac{1}{4}$	19	$1\frac{1}{4}-\frac{1}{16}$
4	5	14	$7\frac{1}{8}$	5	$1\frac{3}{4}$	16	$10\frac{5}{8}$	5	$10\frac{1}{2}$	19	$2\frac{1}{8}$
4	$5\frac{1}{4}$	14	$7\frac{7}{8}$	5	2	16	$11\frac{3}{8}$	5	$10\frac{3}{4}$	19	$2\frac{7}{8}$
4	$5\frac{1}{2}$	14	$8\frac{5}{8}-\frac{1}{16}$	5	$2\frac{1}{4}$	17	$0\frac{1}{8}-\frac{1}{16}$	5	11	19	$3\frac{5}{8}-\frac{1}{16}$
4	$5\frac{3}{4}$	14	$9\frac{1}{2}$	5	$2\frac{1}{2}$	17	1	5	$11\frac{1}{4}$	19	$4\frac{1}{2}$
4	6	14	$10\frac{1}{4}$	5	$2\frac{3}{4}$	17	$1\frac{3}{4}-\frac{1}{16}$	5	$11\frac{1}{2}$	19	$5\frac{1}{4}-\frac{1}{16}$
4	$6\frac{1}{4}$	14	$11\frac{1}{8}$	5	3	17	$2\frac{1}{2}-\frac{1}{16}$	5	$11\frac{3}{4}$	19	$6\frac{1}{16}$
4	$6\frac{1}{2}$	14	$11\frac{7}{8}$	5	$3\frac{1}{4}$	17	$3\frac{3}{8}$	6	0	19	$6\frac{3}{4}-\frac{1}{16}$
4	$6\frac{3}{4}$	15	$0\frac{5}{8}$	5	$3\frac{1}{2}$	17	$4\frac{1}{8}$	6	$0\frac{1}{4}$	19	$7\frac{1}{2}-\frac{1}{16}$
4	7	15	$1\frac{3}{8}$	5	$3\frac{3}{4}$	17	$4\frac{7}{8}$	6	$0\frac{1}{2}$	19	$8\frac{3}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$0\frac{3}{4}$	19	$9\frac{1}{8}-\frac{1}{16}$	6	$9\frac{1}{2}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	$6\frac{1}{4}$	24	$4\frac{1}{8}-\frac{1}{16}$
6	1	19	10	6	$9\frac{3}{4}$	22	$1\frac{1}{2}$	7	$6\frac{1}{2}$	24	5
6	$1\frac{1}{4}$	19	$10\frac{3}{4}-\frac{1}{16}$	6	10	22	$2\frac{1}{4}$	7	$6\frac{3}{4}$	24	$5\frac{3}{4}$
6	$1\frac{1}{2}$	19	$11\frac{1}{2}-\frac{1}{16}$	6	$10\frac{1}{4}$	22	3	7	7	24	$6\frac{1}{2}$
6	$1\frac{3}{4}$	20	$0\frac{1}{4}-\frac{1}{16}$	6	$10\frac{1}{2}$	22	$3\frac{3}{4}-\frac{1}{16}$	7	$7\frac{1}{4}$	24	$7\frac{1}{4}-\frac{1}{16}$
6	2	20	$1\frac{1}{8}$	6	$10\frac{3}{4}$	22	$4\frac{1}{2}-\frac{1}{16}$	7	$7\frac{1}{2}$	24	$8\frac{1}{8}$
6	$2\frac{1}{4}$	20	$1\frac{7}{8}$	6	11	22	$5\frac{3}{8}$	7	$7\frac{3}{4}$	24	$8\frac{7}{8}$
6	$2\frac{1}{2}$	20	$2\frac{5}{8}-\frac{1}{16}$	6	$11\frac{1}{4}$	22	$6\frac{1}{8}-\frac{1}{16}$	7	8	24	$9\frac{5}{8}-\frac{1}{16}$
6	$2\frac{3}{4}$	20	$3\frac{1}{2}$	6	$11\frac{1}{2}$	22	7	7	$8\frac{1}{4}$	24	$10\frac{3}{8}-\frac{1}{16}$
6	3	20	$4\frac{1}{4}-\frac{1}{16}$	6	$11\frac{3}{4}$	22	$7\frac{3}{4}$	7	$8\frac{1}{2}$	24	$11\frac{1}{8}-\frac{1}{16}$
6	$3\frac{1}{4}$	20	$5\frac{1}{16}$	7	0	22	$8\frac{1}{2}$	7	$8\frac{3}{4}$	25	0
6	$3\frac{1}{2}$	20	$5\frac{3}{4}-\frac{1}{16}$	7	$0\frac{1}{4}$	22	$9\frac{1}{4}-\frac{1}{16}$	7	9	25	$0\frac{3}{4}-\frac{1}{16}$
6	$3\frac{3}{4}$	20	$6\frac{1}{2}-\frac{1}{16}$	7	$0\frac{1}{2}$	22	$10\frac{1}{8}$	7	$9\frac{1}{4}$	25	$1\frac{1}{2}-\frac{1}{16}$
6	4	20	$7\frac{3}{8}$	7	$0\frac{3}{4}$	22	$10\frac{7}{8}$	7	$9\frac{1}{2}$	25	$2\frac{3}{8}$
6	$4\frac{1}{4}$	20	$8\frac{1}{8}-\frac{1}{16}$	7	1	22	$11\frac{5}{8}-\frac{1}{16}$	7	$9\frac{3}{4}$	25	$3\frac{1}{8}-\frac{1}{16}$
6	$4\frac{1}{2}$	20	9	7	$1\frac{1}{4}$	23	$0\frac{1}{2}$	7	10	25	$3\frac{7}{8}-\frac{1}{16}$
6	$4\frac{3}{4}$	20	$9\frac{3}{4}$	7	$1\frac{1}{2}$	23	$1\frac{1}{4}$	7	$10\frac{1}{4}$	25	$4\frac{5}{8}-\frac{1}{16}$
6	5	20	$10\frac{1}{2}$	7	$1\frac{3}{4}$	23	2	7	$10\frac{1}{2}$	25	$5\frac{1}{2}$
6	$5\frac{1}{4}$	20	$11\frac{1}{4}-\frac{1}{16}$	7	2	23	$2\frac{3}{4}-\frac{1}{16}$	7	$10\frac{3}{4}$	25	$6\frac{1}{4}-\frac{1}{16}$
6	$5\frac{1}{2}$	21	$0\frac{1}{8}$	7	$2\frac{1}{4}$	23	$3\frac{1}{2}-\frac{1}{16}$	7	11	25	$7\frac{1}{8}$
6	$5\frac{3}{4}$	21	$0\frac{7}{8}$	7	$2\frac{1}{2}$	23	$4\frac{3}{8}$	7	$11\frac{1}{4}$	25	$7\frac{7}{8}$
6	6	21	$1\frac{5}{8}-\frac{1}{16}$	7	$2\frac{3}{4}$	23	$5\frac{1}{8}-\frac{1}{16}$	7	$11\frac{1}{2}$	25	$8\frac{5}{8}-\frac{1}{16}$
6	$6\frac{1}{4}$	21	$2\frac{1}{2}$	7	3	23	6	7	$11\frac{3}{4}$	25	$9\frac{3}{8}-\frac{1}{16}$
6	$6\frac{1}{2}$	21	$3\frac{1}{4}$	7	$3\frac{1}{4}$	23	$6\frac{3}{4}$	8	0	25	$10\frac{1}{8}-\frac{1}{16}$
6	$6\frac{3}{4}$	21	4	7	$3\frac{1}{2}$	23	$7\frac{1}{2}$	8	$0\frac{1}{4}$	25	11
6	7	21	$4\frac{3}{4}-\frac{1}{16}$	7	$3\frac{3}{4}$	23	$8\frac{1}{4}-\frac{1}{16}$	8	$0\frac{1}{2}$	25	$11\frac{3}{4}-\frac{1}{16}$
6	$7\frac{1}{4}$	21	$5\frac{1}{2}-\frac{1}{16}$	7	4	23	$9\frac{1}{16}$	8	$0\frac{3}{4}$	26	$0\frac{1}{2}-\frac{1}{16}$
6	$7\frac{1}{2}$	21	$6\frac{3}{8}$	7	$4\frac{1}{4}$	23	$9\frac{7}{8}$	8	1	26	$1\frac{3}{8}$
6	$7\frac{3}{4}$	21	$7\frac{1}{8}-\frac{1}{16}$	7	$4\frac{1}{2}$	23	$10\frac{5}{8}-\frac{1}{16}$	8	$1\frac{1}{4}$	26	$2\frac{1}{8}-\frac{1}{16}$
6	8	21	8	7	$4\frac{3}{4}$	23	$11\frac{3}{8}-\frac{1}{16}$	8	$1\frac{1}{2}$	26	$2\frac{7}{8}-\frac{1}{16}$
6	$8\frac{1}{4}$	21	$8\frac{3}{4}$	7	5	24	$0\frac{1}{8}-\frac{1}{16}$	8	$1\frac{3}{4}$	26	$3\frac{5}{8}-\frac{1}{16}$
6	$8\frac{1}{2}$	21	$9\frac{1}{2}$	7	$5\frac{1}{4}$	24	1	8	2	26	$4\frac{1}{2}$
6	$8\frac{3}{4}$	21	$10\frac{1}{4}-\frac{1}{16}$	7	$5\frac{1}{2}$	24	$1\frac{3}{4}-\frac{1}{16}$	8	$2\frac{1}{4}$	26	$5\frac{1}{4}-\frac{1}{16}$
6	9	21	$11\frac{1}{8}$	7	$5\frac{3}{4}$	24	$2\frac{1}{2}-\frac{1}{16}$	8	$2\frac{1}{2}$	26	$6\frac{1}{16}$
6	$9\frac{1}{4}$	21	$11\frac{7}{8}$	7	6	24	$3\frac{3}{8}$	8	$2\frac{3}{4}$	26	$6\frac{3}{4}-\frac{1}{16}$

# 130 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	3	26	$7\frac{5}{8}$	8	$11\frac{3}{4}$	28	$11\frac{1}{8}$	9	$8\frac{1}{2}$	31	$2\frac{5}{8}$
8	$3\frac{1}{4}$	26	$8\frac{3}{8}-\frac{1}{16}$	9	0	28	$11\frac{7}{8}$	9	$8\frac{3}{4}$	31	$3\frac{3}{8}$
8	$3\frac{1}{2}$	26	$9\frac{1}{8}-\frac{1}{16}$	9	$0\frac{1}{4}$	29	$0\frac{5}{8}-\frac{1}{16}$	9	9	31	$4\frac{1}{8}$
8	$3\frac{3}{4}$	26	10	9	$0\frac{1}{2}$	29	$1\frac{1}{2}$	9	$9\frac{1}{4}$	31	5
8	4	26	$10\frac{3}{4}$	9	$0\frac{3}{4}$	29	$2\frac{1}{4}$	9	$9\frac{1}{2}$	31	$5\frac{3}{4}$
8	$4\frac{1}{4}$	26	$11\frac{1}{2}-\frac{1}{16}$	9	1	29	3	9	$9\frac{3}{4}$	31	$6\frac{1}{2}$
8	$4\frac{1}{2}$	27	$0\frac{1}{4}-\frac{1}{16}$	9	$1\frac{1}{4}$	29	$3\frac{3}{4}-\frac{1}{16}$	9	10	31	$7\frac{1}{4}-\frac{1}{16}$
8	$4\frac{3}{4}$	27	$1\frac{1}{16}$	9	$1\frac{1}{2}$	29	$4\frac{5}{8}$	9	$10\frac{1}{4}$	31	$8\frac{1}{8}$
8	5	27	$1\frac{7}{8}-\frac{1}{16}$	9	$1\frac{3}{4}$	29	$5\frac{3}{8}$	9	$10\frac{1}{2}$	31	$8\frac{7}{8}$
8	$5\frac{1}{4}$	27	$2\frac{5}{8}-\frac{1}{16}$	9	2	29	$6\frac{1}{8}-\frac{1}{16}$	9	$10\frac{3}{4}$	31	$9\frac{5}{8}-\frac{1}{16}$
8	$5\frac{1}{2}$	27	$3\frac{1}{2}$	9	$2\frac{1}{4}$	29	7	9	11	31	$10\frac{3}{8}-\frac{1}{16}$
8	$5\frac{3}{4}$	27	$4\frac{1}{4}$	9	$2\frac{1}{2}$	29	$7\frac{3}{4}$	9	$11\frac{1}{4}$	31	$11\frac{1}{4}$
8	6	27	$5\frac{1}{16}$	9	$2\frac{3}{4}$	29	$8\frac{1}{2}-\frac{1}{16}$	9	$11\frac{1}{2}$	32	0
8	$6\frac{1}{4}$	27	$5\frac{3}{4}-\frac{1}{16}$	9	3	29	$9\frac{1}{4}-\frac{1}{16}$	9	$11\frac{3}{4}$	32	$0\frac{3}{4}-\frac{1}{16}$
8	$6\frac{1}{2}$	27	$6\frac{5}{8}$	9	$3\frac{1}{4}$	29	$10\frac{1}{8}$	10	0	32	$1\frac{5}{8}$
8	$6\frac{3}{4}$	27	$7\frac{3}{8}-\frac{1}{16}$	9	$3\frac{1}{2}$	29	$10\frac{7}{8}$	10	$0\frac{1}{4}$	32	$2\frac{3}{8}$
8	7	27	$8\frac{1}{8}-\frac{1}{16}$	9	$3\frac{3}{4}$	29	$11\frac{5}{8}-\frac{1}{16}$	10	$0\frac{1}{2}$	32	$3\frac{1}{8}-\frac{1}{16}$
8	$7\frac{1}{4}$	27	9	9	4	30	$0\frac{3}{8}-\frac{1}{16}$	10	$0\frac{3}{4}$	32	$3\frac{7}{8}-\frac{1}{16}$
8	$7\frac{1}{2}$	27	$9\frac{3}{4}$	9	$4\frac{1}{4}$	30	$1\frac{1}{4}$	10	1	32	$4\frac{3}{4}$
8	$7\frac{3}{4}$	27	$10\frac{1}{2}$	9	$4\frac{1}{2}$	30	2	10	$1\frac{1}{4}$	32	$5\frac{1}{2}$
8	8	27	$11\frac{1}{4}-\frac{1}{16}$	9	$4\frac{3}{4}$	30	$2\frac{3}{4}-\frac{1}{16}$	10	$1\frac{1}{2}$	32	$6\frac{1}{4}-\frac{1}{16}$
8	$8\frac{1}{4}$	28	$0\frac{1}{8}$	9	5	30	$3\frac{5}{8}$	10	$1\frac{3}{4}$	32	$7\frac{1}{8}$
8	$8\frac{1}{2}$	28	$0\frac{7}{8}$	9	$5\frac{1}{4}$	30	$4\frac{3}{8}$	10	2	32	$7\frac{7}{8}$
8	$8\frac{3}{4}$	28	$1\frac{5}{8}-\frac{1}{16}$	9	$5\frac{1}{2}$	30	$5\frac{1}{8}-\frac{1}{16}$	10	$2\frac{1}{4}$	32	$8\frac{5}{8}-\frac{1}{16}$
8	9	28	$2\frac{1}{2}$	9	$5\frac{3}{4}$	30	6	10	$2\frac{1}{2}$	32	$9\frac{3}{8}-\frac{1}{16}$
8	$9\frac{1}{4}$	28	$3\frac{1}{4}$	9	6	30	$6\frac{3}{4}$	10	$2\frac{3}{4}$	32	$10\frac{1}{4}$
8	$9\frac{1}{2}$	28	4	9	$6\frac{1}{4}$	30	$7\frac{1}{2}$	10	3	32	11
8	$9\frac{3}{4}$	28	$4\frac{7}{8}$	9	$6\frac{1}{2}$	30	$8\frac{1}{4}-\frac{1}{16}$	10	$3\frac{1}{4}$	32	$11\frac{3}{4}-\frac{1}{16}$
8	10	28	$5\frac{5}{8}$	9	$6\frac{3}{4}$	30	$9\frac{1}{8}$	10	$3\frac{1}{2}$	33	$0\frac{5}{8}$
8	$10\frac{1}{4}$	28	$6\frac{3}{8}$	9	7	30	$9\frac{7}{8}$	10	$3\frac{3}{4}$	33	$1\frac{3}{8}$
8	$10\frac{1}{2}$	28	$7\frac{1}{8}-\frac{1}{16}$	9	$7\frac{1}{4}$	30	$10\frac{5}{8}-\frac{1}{16}$	10	4	33	$2\frac{1}{8}-\frac{1}{16}$
8	$10\frac{3}{4}$	28	8	9	$7\frac{1}{2}$	30	$11\frac{3}{8}-\frac{1}{16}$	10	$4\frac{1}{4}$	33	3
8	11	28	$8\frac{3}{4}$	9	$7\frac{3}{4}$	31	$0\frac{1}{2}$	10	$4\frac{1}{2}$	33	$3\frac{3}{4}$
8	$11\frac{1}{4}$	28	$9\frac{1}{2}$	9	8	31	1	10	$4\frac{3}{4}$	33	$4\frac{1}{2}$
8	$11\frac{1}{2}$	28	$10\frac{1}{4}-\frac{1}{16}$	9	$8\frac{1}{4}$	31	$1\frac{3}{4}-\frac{1}{16}$	10	5	33	$5\frac{1}{4}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE OUTSIDE). 131

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	$5\frac{1}{4}$	33	$6\frac{1}{16}$	11	2	35	$9\frac{1}{2}-\frac{1}{16}$	11	$10\frac{3}{4}$	38	$1\frac{1}{8}$
10	$5\frac{1}{2}$	33	$6\frac{7}{8}$	11	$2\frac{1}{4}$	35	$10\frac{3}{8}$	11	11	38	$1\frac{7}{8}$
10	$5\frac{3}{4}$	33	$7\frac{3}{8}-\frac{1}{16}$	11	$2\frac{1}{2}$	35	$11\frac{1}{8}$	11	$11\frac{1}{4}$	38	$2\frac{5}{8}$
10	6	33	$8\frac{3}{8}-\frac{1}{16}$	11	$2\frac{3}{4}$	35	$11\frac{7}{8}-\frac{1}{16}$	11	$11\frac{1}{2}$	38	$3\frac{3}{8}$
10	$6\frac{1}{4}$	33	$9\frac{1}{4}$	11	3	36	$0\frac{5}{8}-\frac{1}{16}$	11	$11\frac{3}{4}$	38	$4\frac{1}{8}-\frac{1}{16}$
10	$6\frac{1}{2}$	33	10	11	$3\frac{1}{4}$	36	$1\frac{1}{2}$	12	0	38	5
10	$6\frac{3}{4}$	33	$10\frac{3}{4}-\frac{1}{16}$	11	$3\frac{1}{2}$	36	$2\frac{1}{4}-\frac{1}{16}$	12	$0\frac{1}{4}$	38	$5\frac{3}{4}-\frac{1}{16}$
10	7	33	$11\frac{1}{2}-\frac{1}{16}$	11	$3\frac{3}{4}$	36	$3\frac{1}{16}$	12	$0\frac{1}{2}$	38	$6\frac{3}{8}$
10	$7\frac{1}{4}$	34	$0\frac{3}{8}$	11	4	36	$3\frac{7}{8}$	12	$0\frac{3}{4}$	38	$7\frac{3}{8}$
10	$7\frac{1}{2}$	34	$1\frac{1}{8}-\frac{1}{16}$	11	$4\frac{1}{4}$	36	$4\frac{5}{8}$	12	1	38	$8\frac{1}{8}$
10	$7\frac{3}{4}$	34	$1\frac{7}{8}-\frac{1}{16}$	11	$4\frac{1}{2}$	36	$5\frac{3}{8}-\frac{1}{16}$	12	$1\frac{1}{4}$	38	$8\frac{7}{8}-\frac{1}{16}$
10	8	34	$2\frac{3}{4}$	11	$4\frac{3}{4}$	36	$6\frac{1}{4}$	12	$1\frac{1}{2}$	38	$9\frac{3}{4}$
10	$8\frac{1}{4}$	34	$3\frac{1}{2}$	11	5	36	7	12	$1\frac{3}{4}$	38	$10\frac{1}{2}$
10	$8\frac{1}{2}$	34	$4\frac{1}{4}-\frac{1}{16}$	11	$5\frac{1}{4}$	36	$7\frac{3}{4}-\frac{1}{16}$	12	2	38	$11\frac{1}{4}$
10	$8\frac{3}{4}$	34	$5\frac{1}{16}$	11	$5\frac{1}{2}$	36	$8\frac{1}{2}-\frac{1}{16}$	12	$2\frac{1}{4}$	39	$0\frac{1}{16}$
10	9	34	$5\frac{7}{8}$	11	$5\frac{3}{4}$	36	$9\frac{3}{8}$	12	$2\frac{1}{2}$	39	$0\frac{7}{8}$
10	$9\frac{1}{4}$	34	$6\frac{5}{8}-\frac{1}{16}$	11	6	36	$10\frac{1}{8}$	12	$2\frac{3}{4}$	39	$1\frac{5}{8}$
10	$9\frac{1}{2}$	34	$7\frac{3}{8}-\frac{1}{16}$	11	$6\frac{1}{4}$	36	$10\frac{7}{8}-\frac{1}{16}$	12	3	39	$2\frac{3}{8}-\frac{1}{16}$
10	$9\frac{3}{4}$	34	$8\frac{1}{4}$	11	$6\frac{1}{2}$	36	$11\frac{3}{4}$	12	$3\frac{1}{4}$	39	$3\frac{1}{4}$
10	10	34	9	11	$6\frac{3}{4}$	37	$0\frac{1}{2}$	12	$3\frac{1}{2}$	39	4
10	$10\frac{1}{4}$	34	$9\frac{3}{4}-\frac{1}{16}$	11	7	37	$1\frac{1}{4}-\frac{1}{16}$	12	$3\frac{3}{4}$	39	$4\frac{3}{4}-\frac{1}{16}$
10	$10\frac{1}{2}$	34	$10\frac{1}{2}-\frac{1}{16}$	11	$7\frac{1}{4}$	37	$2\frac{1}{16}$	12	4	39	$5\frac{1}{2}-\frac{1}{16}$
10	$10\frac{3}{4}$	34	$11\frac{3}{8}$	11	$7\frac{1}{2}$	37	$2\frac{7}{8}$	12	$4\frac{1}{4}$	39	$6\frac{3}{8}$
10	11	35	$0\frac{1}{8}$	11	$7\frac{3}{4}$	37	$3\frac{5}{8}$	12	$4\frac{1}{2}$	39	$7\frac{1}{8}$
10	$11\frac{1}{4}$	35	$0\frac{7}{8}-\frac{1}{16}$	11	8	37	$4\frac{3}{8}-\frac{1}{16}$	12	$4\frac{3}{4}$	39	$7\frac{7}{8}-\frac{1}{16}$
10	$11\frac{1}{2}$	35	$1\frac{3}{4}$	11	$8\frac{1}{4}$	37	$5\frac{1}{4}$	12	5	39	$8\frac{5}{8}-\frac{1}{16}$
10	$11\frac{3}{4}$	35	$2\frac{1}{2}$	11	$8\frac{1}{2}$	37	6	12	$5\frac{1}{4}$	39	$9\frac{1}{2}$
11	0	35	$3\frac{1}{4}-\frac{1}{16}$	11	$8\frac{3}{4}$	37	$6\frac{3}{4}$	12	$5\frac{1}{2}$	39	$10\frac{1}{4}-\frac{1}{16}$
11	$0\frac{1}{4}$	35	$4\frac{1}{16}$	11	9	37	$7\frac{1}{2}-\frac{1}{16}$	12	$5\frac{3}{4}$	39	$11\frac{1}{16}$
11	$0\frac{1}{2}$	35	$4\frac{7}{8}$	11	$9\frac{1}{4}$	37	$8\frac{3}{8}$	12	6	39	$11\frac{3}{4}-\frac{1}{16}$
11	$0\frac{3}{4}$	35	$5\frac{5}{8}$	11	$9\frac{1}{2}$	37	$9\frac{1}{8}$	12	$6\frac{1}{4}$	40	$0\frac{5}{8}$
11	1	35	$6\frac{3}{8}-\frac{1}{16}$	11	$9\frac{3}{4}$	37	$9\frac{5}{8}$	12	$6\frac{1}{2}$	40	$1\frac{3}{8}-\frac{1}{16}$
11	$1\frac{1}{4}$	35	$7\frac{1}{4}$	11	10	37	$10\frac{3}{4}$	12	$6\frac{3}{4}$	40	$2\frac{1}{8}-\frac{1}{16}$
11	$1\frac{1}{2}$	35	8	11	$10\frac{1}{4}$	37	$11\frac{1}{2}$	12	7	40	$2\frac{7}{8}-\frac{1}{16}$
11	$1\frac{3}{4}$	35	$8\frac{3}{4}-\frac{1}{16}$	11	$10\frac{1}{2}$	38	$0\frac{1}{4}-\frac{1}{16}$	12	$7\frac{1}{4}$	40	$3\frac{3}{4}-\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$7\frac{1}{2}$	40	$4\frac{1}{2}-\frac{1}{16}$	12	$9\frac{1}{4}$	40	$10\frac{1}{16}$	12	11	41	$3\frac{5}{8}$
12	$7\frac{3}{4}$	40	$5\frac{1}{4}-\frac{1}{16}$	12	$9\frac{1}{2}$	40	$10\frac{7}{8}$	12	$11\frac{1}{4}$	41	$4\frac{3}{8}$
12	8	40	$6\frac{1}{8}$	12	$9\frac{3}{4}$	40	$11\frac{5}{8}-\frac{1}{16}$	12	$11\frac{1}{2}$	41	$5\frac{1}{8}-\frac{1}{16}$
12	$8\frac{1}{4}$	40	$6\frac{7}{8}-\frac{1}{16}$	12	10	41	$0\frac{3}{8}-\frac{1}{16}$	12	$11\frac{3}{4}$	41	6
12	$8\frac{1}{2}$	40	$7\frac{3}{4}$	12	$10\frac{1}{4}$	41	$1\frac{1}{4}$	13	0	41	$6\frac{3}{4}$
12	$8\frac{3}{4}$	40	$8\frac{1}{2}$	12	$10\frac{1}{2}$	41	$2\frac{1}{16}$				
12	9	40	$9\frac{1}{4}-\frac{1}{16}$	12	$10\frac{3}{4}$	41	$2\frac{7}{8}$				



TABLE No. 5.

DIAMETERS AND CIRCUMFERENCES OF  
ANGLE-IRON RINGS.

FLANGE INSIDE.

TABLE No. 5.—DIAMETERS AND CIRCUMFERENCES OF ANGLE-IRON RINGS.

FLANGE INSIDE.

RULE.—Flange inside: from the outside diameter subtract twice the diagonal thickness of the iron at the root, or angle, and multiply the remainder by 3.1416. The product is the required length or circumference of angle-iron.

If there is an odd  $\frac{1}{16}$ th inch in the diameter, the circumference for which is wanted, add together the tabular circumferences of the two diameters that are nearest to it, and divide the sum by 2. The quotient is the circumference required. The annexed Figs. show an angle-iron ring with the flange inside, and a T-iron ring.

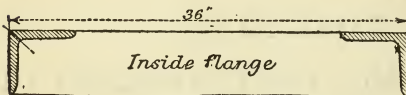


Fig. 40

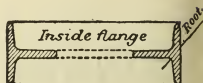


Fig. 41.

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
0	8	1	10 $\frac{3}{4}$	0	9 $\frac{7}{8}$	2	4 $\frac{5}{8}$	0	11 $\frac{3}{4}$	2	10 $\frac{1}{2}$ - $\frac{1}{16}$
0	8 $\frac{1}{8}$	1	11 $\frac{1}{8}$	0	10	2	5 $\frac{1}{16}$	0	11 $\frac{7}{8}$	2	10 $\frac{7}{8}$ - $\frac{1}{16}$
0	8 $\frac{1}{4}$	1	11 $\frac{1}{2}$ - $\frac{1}{16}$	0	10 $\frac{1}{8}$	2	5 $\frac{3}{8}$ - $\frac{1}{16}$	1	0	2	11 $\frac{1}{4}$ - $\frac{1}{16}$
0	8 $\frac{3}{8}$	1	11 $\frac{7}{8}$ - $\frac{1}{16}$	0	10 $\frac{1}{4}$	2	5 $\frac{3}{4}$ - $\frac{1}{16}$	1	0 $\frac{1}{8}$	2	11 $\frac{5}{8}$ - $\frac{1}{16}$
0	8 $\frac{1}{2}$	2	0 $\frac{1}{4}$ - $\frac{1}{16}$	0	10 $\frac{3}{8}$	2	6 $\frac{1}{8}$ - $\frac{1}{16}$	1	0 $\frac{1}{4}$	3	0 $\frac{1}{16}$
0	8 $\frac{5}{8}$	2	0 $\frac{5}{8}$ - $\frac{1}{16}$	0	10 $\frac{1}{2}$	2	6 $\frac{5}{8}$	1	0 $\frac{3}{8}$	3	0 $\frac{1}{2}$
0	8 $\frac{3}{4}$	2	1 $\frac{1}{8}$	0	10 $\frac{5}{8}$	2	7	1	0 $\frac{1}{2}$	3	0 $\frac{7}{8}$
0	8 $\frac{7}{8}$	2	1 $\frac{1}{2}$	0	10 $\frac{3}{4}$	2	7 $\frac{3}{8}$	1	0 $\frac{5}{8}$	3	1 $\frac{1}{4}$ - $\frac{1}{16}$
0	9	2	1 $\frac{7}{8}$	0	10 $\frac{7}{8}$	2	7 $\frac{3}{4}$ - $\frac{1}{16}$	1	0 $\frac{3}{4}$	3	1 $\frac{5}{8}$ - $\frac{1}{16}$
0	9 $\frac{1}{8}$	2	2 $\frac{1}{4}$ - $\frac{1}{16}$	0	11	2	8 $\frac{1}{8}$ - $\frac{1}{16}$	1	0 $\frac{7}{8}$	3	2 $\frac{1}{16}$
0	9 $\frac{1}{4}$	2	2 $\frac{3}{8}$ - $\frac{1}{16}$	0	11 $\frac{1}{8}$	2	8 $\frac{1}{2}$ - $\frac{1}{16}$	1	1	3	2 $\frac{3}{8}$ - $\frac{1}{16}$
0	9 $\frac{3}{8}$	2	3 $\frac{1}{16}$	0	11 $\frac{1}{4}$	2	8 $\frac{7}{8}$ - $\frac{1}{16}$	1	1 $\frac{1}{8}$	3	2 $\frac{3}{4}$ - $\frac{1}{16}$
0	9 $\frac{1}{2}$	2	3 $\frac{3}{8}$ - $\frac{1}{16}$	0	11 $\frac{3}{8}$	2	9 $\frac{1}{4}$ - $\frac{1}{16}$	1	1 $\frac{1}{4}$	3	3 $\frac{1}{4}$
0	9 $\frac{5}{8}$	2	3 $\frac{7}{8}$	0	11 $\frac{1}{2}$	2	9 $\frac{3}{4}$	1	1 $\frac{3}{8}$	3	3 $\frac{5}{8}$
0	9 $\frac{3}{4}$	2	4 $\frac{1}{4}$	0	11 $\frac{5}{8}$	2	10 $\frac{1}{8}$	1	1 $\frac{1}{2}$	3	4 $\frac{1}{16}$

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$1\frac{5}{8}$	3	$4\frac{3}{8}-\frac{1}{16}$	1	$5\frac{7}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{8}$	5	$7\frac{1}{8}$
1	$1\frac{3}{4}$	3	$4\frac{3}{4}-\frac{1}{16}$	1	6	4	$6\frac{1}{8}-\frac{1}{16}$	1	$10\frac{1}{4}$	5	$7\frac{1}{2}$
1	$1\frac{7}{8}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	$6\frac{1}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$10\frac{3}{8}$	5	$7\frac{7}{8}$
1	2	3	$5\frac{1}{2}-\frac{1}{16}$	1	$6\frac{1}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$10\frac{1}{2}$	5	$8\frac{1}{4}-\frac{1}{16}$
1	$2\frac{1}{8}$	3	6	1	$6\frac{3}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$10\frac{5}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$
1	$2\frac{1}{4}$	3	$6\frac{3}{8}$	1	$6\frac{1}{2}$	4	$7\frac{3}{4}$	1	$10\frac{3}{4}$	5	$9\frac{1}{16}$
1	$2\frac{3}{8}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	$6\frac{5}{8}$	4	$8\frac{1}{8}$	1	$10\frac{7}{8}$	5	$9\frac{1}{2}$
1	$2\frac{1}{2}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	$6\frac{3}{4}$	4	$8\frac{1}{2}$	1	11	5	$9\frac{7}{8}$
1	$2\frac{5}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$6\frac{7}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$11\frac{1}{8}$	5	$10\frac{1}{4}$
1	$2\frac{3}{4}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	7	4	$9\frac{1}{4}-\frac{1}{16}$	1	$11\frac{1}{4}$	5	$10\frac{5}{8}$
1	$2\frac{7}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$7\frac{1}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	1	$11\frac{3}{8}$	5	$11\frac{1}{16}$
1	3	3	$8\frac{3}{4}$	1	$7\frac{1}{4}$	4	$10\frac{1}{16}$	1	$11\frac{1}{2}$	5	$11\frac{3}{8}-\frac{1}{16}$
1	$3\frac{1}{8}$	3	$9\frac{1}{8}$	1	$7\frac{3}{8}$	4	$10\frac{1}{2}$	1	$11\frac{5}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$3\frac{1}{4}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$7\frac{1}{2}$	4	$10\frac{7}{8}$	1	$11\frac{3}{4}$	6	$0\frac{1}{4}$
1	$3\frac{3}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$7\frac{5}{8}$	4	$11\frac{1}{4}$	1	$11\frac{7}{8}$	6	$0\frac{5}{8}$
1	$3\frac{1}{2}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$7\frac{3}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	0	6	1
1	$3\frac{5}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$7\frac{7}{8}$	5	$0\frac{1}{16}$	2	$0\frac{1}{8}$	6	$1\frac{3}{8}$
1	$3\frac{3}{4}$	3	$11\frac{1}{16}$	1	8	5	$0\frac{3}{8}-\frac{1}{16}$	2	$0\frac{1}{4}$	6	$1\frac{3}{4}-\frac{1}{16}$
1	$3\frac{7}{8}$	3	$11\frac{1}{2}$	1	$8\frac{1}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	2	$0\frac{3}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	4	3	$11\frac{7}{8}$	1	$8\frac{1}{4}$	5	$1\frac{1}{4}$	2	$0\frac{1}{2}$	6	$2\frac{1}{2}-\frac{1}{16}$
1	$4\frac{1}{8}$	4	$0\frac{1}{4}$	1	$8\frac{3}{8}$	5	$1\frac{5}{8}$	2	$0\frac{5}{8}$	6	3
1	$4\frac{1}{4}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$8\frac{1}{2}$	5	2	2	$0\frac{3}{4}$	6	$3\frac{3}{8}$
1	$4\frac{3}{8}$	4	$1\frac{1}{16}$	1	$8\frac{5}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	2	$0\frac{7}{8}$	6	$3\frac{3}{4}$
1	$4\frac{1}{2}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$8\frac{3}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	2	1	6	$4\frac{1}{8}$
1	$4\frac{5}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$8\frac{7}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	2	$1\frac{1}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$
1	$4\frac{3}{4}$	4	$2\frac{1}{4}$	1	9	5	$3\frac{1}{2}-\frac{1}{16}$	2	$1\frac{1}{4}$	6	$4\frac{7}{8}-\frac{1}{16}$
1	$4\frac{7}{8}$	4	$2\frac{5}{8}$	1	$9\frac{1}{8}$	5	4	2	$1\frac{3}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	5	4	$3\frac{1}{16}$	1	$9\frac{1}{4}$	5	$4\frac{3}{8}$	2	$1\frac{1}{2}$	6	$5\frac{3}{4}$
1	$5\frac{1}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$9\frac{3}{8}$	5	$4\frac{3}{4}$	2	$1\frac{5}{8}$	6	$6\frac{1}{8}$
1	$5\frac{1}{4}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$9\frac{1}{2}$	5	$5\frac{1}{8}-\frac{1}{16}$	2	$1\frac{3}{4}$	6	$6\frac{1}{2}$
1	$5\frac{3}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$9\frac{5}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	$1\frac{7}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$5\frac{1}{2}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$9\frac{3}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	2	6	$7\frac{1}{4}-\frac{1}{16}$
1	$5\frac{5}{8}$	4	5	1	$9\frac{7}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$				
1	$5\frac{3}{4}$	4	$5\frac{3}{8}$	1	10	5	$6\frac{3}{4}$				

# 136      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	$10\frac{1}{2}-\frac{1}{16}$	1	$4\frac{3}{8}$	4	$0\frac{1}{4}$	1	$8\frac{3}{4}$	5	2
1	$0\frac{1}{8}$	2	$10\frac{7}{8}-\frac{1}{16}$	1	$4\frac{1}{2}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$8\frac{7}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$
1	$0\frac{1}{4}$	2	$11\frac{1}{4}-\frac{1}{16}$	1	$4\frac{5}{8}$	4	$1\frac{1}{16}$	1	9	5	$2\frac{3}{4}-\frac{1}{16}$
1	$0\frac{3}{8}$	2	$11\frac{5}{8}-\frac{1}{16}$	1	$4\frac{3}{4}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$9\frac{1}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$
1	$0\frac{1}{2}$	3	$0\frac{1}{16}$	1	$4\frac{7}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$9\frac{1}{4}$	5	$3\frac{1}{2}-\frac{1}{16}$
1	$0\frac{5}{8}$	3	$0\frac{1}{2}$	1	5	4	$2\frac{1}{4}$	1	$9\frac{3}{8}$	5	4
1	$0\frac{3}{4}$	3	$0\frac{7}{8}$	1	$5\frac{1}{8}$	4	$2\frac{5}{8}$	1	$9\frac{1}{2}$	5	$4\frac{3}{8}$
1	$0\frac{7}{8}$	3	$1\frac{1}{4}-\frac{1}{16}$	1	$5\frac{1}{4}$	4	$3\frac{1}{16}$	1	$9\frac{5}{8}$	5	$4\frac{3}{4}$
1	1	3	$1\frac{5}{8}-\frac{1}{16}$	1	$5\frac{3}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$9\frac{3}{4}$	5	$5\frac{1}{8}-\frac{1}{16}$
1	$1\frac{1}{8}$	3	$2\frac{1}{16}$	1	$5\frac{1}{2}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$9\frac{7}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$
1	$1\frac{1}{4}$	3	$2\frac{3}{8}-\frac{1}{16}$	1	$5\frac{5}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	10	5	$5\frac{7}{8}-\frac{1}{16}$
1	$1\frac{3}{8}$	3	$2\frac{3}{4}-\frac{1}{16}$	1	$5\frac{3}{4}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$10\frac{1}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$
1	$1\frac{1}{2}$	3	$3\frac{1}{4}$	1	$5\frac{7}{8}$	4	5	1	$10\frac{1}{4}$	5	$6\frac{3}{4}$
1	$1\frac{5}{8}$	3	$3\frac{5}{8}$	1	6	4	$5\frac{3}{8}$	1	$10\frac{3}{8}$	5	$7\frac{1}{8}$
1	$1\frac{3}{4}$	3	$4\frac{1}{16}$	1	$6\frac{1}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{2}$	5	$7\frac{1}{2}$
1	$1\frac{7}{8}$	3	$4\frac{3}{8}-\frac{1}{16}$	1	$6\frac{1}{4}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$10\frac{5}{8}$	5	$7\frac{7}{8}$
1	2	3	$4\frac{3}{4}-\frac{1}{16}$	1	$6\frac{3}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$10\frac{3}{4}$	5	$8\frac{1}{4}-\frac{1}{16}$
1	$2\frac{1}{8}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	$6\frac{1}{2}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$10\frac{7}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$
1	$2\frac{1}{4}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$6\frac{3}{4}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	11	5	$9\frac{1}{16}$
1	$2\frac{3}{8}$	3	6	1	$6\frac{3}{4}$	4	$7\frac{3}{4}$	1	$11\frac{1}{8}$	5	$9\frac{1}{2}$
1	$2\frac{1}{2}$	3	$6\frac{3}{8}$	1	$6\frac{7}{8}$	4	$8\frac{1}{8}$	1	$11\frac{1}{4}$	5	$9\frac{7}{8}$
1	$2\frac{5}{8}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	7	4	$8\frac{1}{2}$	1	$11\frac{3}{8}$	5	$10\frac{1}{4}$
1	$2\frac{3}{4}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	$7\frac{1}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$11\frac{1}{2}$	5	$10\frac{5}{8}$
1	$2\frac{7}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$7\frac{1}{4}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$11\frac{5}{8}$	5	$11\frac{1}{16}$
1	3	3	$7\frac{7}{8}-\frac{1}{16}$	1	$7\frac{3}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	1	$11\frac{3}{4}$	5	$11\frac{3}{8}-\frac{1}{16}$
1	$3\frac{1}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$7\frac{1}{2}$	4	$10\frac{1}{16}$	1	$11\frac{7}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$3\frac{1}{4}$	3	$8\frac{3}{4}$	1	$7\frac{5}{8}$	4	$10\frac{1}{2}$	2	0	6	$0\frac{1}{4}$
1	$3\frac{3}{8}$	3	$9\frac{1}{8}$	1	$7\frac{3}{4}$	4	$10\frac{7}{8}$	2	$0\frac{1}{8}$	6	$0\frac{2}{8}$
1	$3\frac{1}{2}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$7\frac{7}{8}$	4	$11\frac{1}{4}$	2	$0\frac{1}{4}$	6	1
1	$3\frac{5}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	8	4	$11\frac{5}{8}-\frac{1}{16}$	2	$0\frac{3}{8}$	6	$1\frac{3}{8}$
1	$3\frac{3}{4}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$8\frac{1}{8}$	5	$0\frac{1}{16}$	2	$0\frac{1}{2}$	6	$1\frac{3}{4}-\frac{1}{16}$
1	$3\frac{7}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$8\frac{1}{4}$	5	$0\frac{3}{8}-\frac{1}{16}$	2	$0\frac{5}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	4	3	$11\frac{1}{16}$	1	$8\frac{3}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	2	$0\frac{3}{4}$	6	$2\frac{1}{2}-\frac{1}{16}$
1	$4\frac{1}{8}$	3	$11\frac{1}{2}$	1	$8\frac{1}{2}$	5	$1\frac{1}{4}$	2	$0\frac{7}{8}$	6	3
1	$4\frac{1}{4}$	3	$11\frac{7}{8}$	1	$8\frac{5}{8}$	5	$1\frac{5}{8}$	2	1	6	$3\frac{3}{8}$

ANGLE-IRON RINGS (FLANGE INSIDE). 137

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	$1\frac{1}{8}$	6	$3\frac{3}{4}$	2	$5\frac{1}{2}$	7	$5\frac{1}{2}$	2	$9\frac{7}{8}$	8	$7\frac{1}{4}-\frac{1}{16}$
2	$1\frac{1}{4}$	6	$4\frac{1}{8}$	2	$5\frac{5}{8}$	7	$5\frac{7}{8}$	2	10	8	$7\frac{5}{8}-\frac{1}{16}$
2	$1\frac{3}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$5\frac{3}{4}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	$10\frac{1}{8}$	8	$8\frac{1}{16}$
2	$1\frac{1}{2}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$5\frac{7}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$	2	$10\frac{1}{4}$	8	$8\frac{1}{2}$
2	$1\frac{5}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$	2	6	7	$7\frac{1}{16}$	2	$10\frac{3}{8}$	8	$8\frac{7}{8}$
2	$1\frac{3}{4}$	6	$5\frac{3}{4}$	2	$6\frac{1}{8}$	7	$7\frac{3}{8}-\frac{1}{16}$	2	$10\frac{1}{2}$	8	$9\frac{1}{4}$
2	$1\frac{7}{8}$	6	$6\frac{1}{8}$	2	$6\frac{1}{4}$	7	$7\frac{7}{8}$	2	$10\frac{5}{8}$	8	$9\frac{5}{8}$
2	2	6	$6\frac{1}{2}$	2	$6\frac{3}{8}$	7	$8\frac{1}{4}$	2	$10\frac{3}{4}$	8	10
2	$2\frac{1}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	$6\frac{1}{2}$	7	$8\frac{5}{8}$	2	$10\frac{7}{8}$	8	$10\frac{3}{8}$
2	$2\frac{1}{4}$	6	$7\frac{1}{4}-\frac{1}{16}$	2	$6\frac{5}{8}$	7	$9\frac{1}{16}$	2	11	8	$10\frac{3}{4}-\frac{1}{16}$
2	$2\frac{3}{8}$	6	$7\frac{3}{4}$	2	$6\frac{3}{4}$	7	$9\frac{3}{8}-\frac{1}{16}$	2	$11\frac{1}{8}$	8	$11\frac{1}{8}-\frac{1}{16}$
2	$2\frac{1}{2}$	6	$8\frac{1}{8}$	2	$6\frac{7}{8}$	7	$9\frac{3}{4}-\frac{1}{16}$	2	$11\frac{1}{4}$	8	$11\frac{5}{8}$
2	$2\frac{5}{8}$	6	$8\frac{1}{2}$	2	7	7	$10\frac{1}{4}$	2	$11\frac{3}{8}$	9	0
2	$2\frac{3}{4}$	6	$8\frac{7}{8}$	2	$7\frac{1}{8}$	7	$10\frac{5}{8}$	2	$11\frac{1}{2}$	9	$0\frac{3}{8}$
2	$2\frac{7}{8}$	6	$9\frac{1}{4}$	2	$7\frac{1}{4}$	7	11	2	$11\frac{5}{8}$	9	$0\frac{3}{4}-\frac{1}{16}$
2	3	6	$9\frac{5}{8}-\frac{1}{16}$	2	$7\frac{3}{8}$	7	$11\frac{3}{8}$	2	$11\frac{3}{4}$	9	$1\frac{1}{8}-\frac{1}{16}$
2	$3\frac{1}{8}$	6	$10\frac{1}{16}$	2	$7\frac{1}{2}$	7	$11\frac{3}{4}-\frac{1}{16}$	2	$11\frac{7}{8}$	9	$1\frac{5}{8}$
2	$3\frac{1}{4}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	$7\frac{5}{8}$	8	$0\frac{1}{8}-\frac{1}{16}$	3	0	9	2
2	$3\frac{3}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$	2	$7\frac{3}{4}$	8	$0\frac{1}{2}-\frac{1}{16}$	3	$0\frac{1}{8}$	9	$2\frac{3}{8}$
2	$3\frac{1}{2}$	6	$11\frac{1}{4}$	2	$7\frac{7}{8}$	8	1	3	$0\frac{1}{4}$	9	$2\frac{3}{4}$
2	$3\frac{5}{8}$	6	$11\frac{5}{8}$	2	8	8	$1\frac{3}{8}$	3	$0\frac{3}{8}$	9	$3\frac{1}{8}$
2	$3\frac{3}{4}$	7	0	2	$8\frac{1}{8}$	8	$1\frac{3}{4}-\frac{1}{16}$	3	$0\frac{1}{2}$	9	$3\frac{1}{2}$
2	$3\frac{7}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$8\frac{1}{4}$	8	$2\frac{1}{8}-\frac{1}{16}$	3	$0\frac{5}{8}$	9	$3\frac{7}{8}$
2	4	7	$0\frac{3}{4}-\frac{1}{16}$	2	$8\frac{3}{8}$	8	$2\frac{1}{2}-\frac{1}{16}$	3	$0\frac{3}{4}$	9	$4\frac{1}{4}-\frac{1}{16}$
2	$4\frac{1}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	$8\frac{1}{2}$	8	3	3	$0\frac{7}{8}$	9	$4\frac{5}{8}-\frac{1}{16}$
2	$4\frac{1}{4}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	$8\frac{5}{8}$	8	$3\frac{3}{8}$	3	1	9	$5\frac{1}{16}$
2	$4\frac{3}{8}$	7	2	2	$8\frac{3}{4}$	8	$3\frac{3}{4}$	3	$1\frac{1}{8}$	9	$5\frac{1}{2}$
2	$4\frac{1}{2}$	7	$2\frac{3}{8}$	2	$8\frac{7}{8}$	8	$4\frac{1}{8}$	3	$1\frac{1}{4}$	9	$5\frac{7}{8}$
2	$4\frac{5}{8}$	7	$2\frac{3}{4}$	2	9	8	$4\frac{1}{2}$	3	$1\frac{3}{8}$	9	$6\frac{1}{4}-\frac{1}{16}$
2	$4\frac{3}{4}$	7	$3\frac{1}{8}$	2	$9\frac{1}{8}$	8	$4\frac{7}{8}$	3	$1\frac{1}{2}$	9	$6\frac{5}{8}-\frac{1}{16}$
2	$4\frac{7}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$9\frac{1}{4}$	8	$5\frac{1}{4}-\frac{1}{16}$	3	$1\frac{5}{8}$	9	$7\frac{1}{16}$
2	5	7	$3\frac{7}{8}-\frac{1}{16}$	2	$9\frac{3}{8}$	8	$5\frac{5}{8}-\frac{1}{16}$	3	$1\frac{3}{4}$	9	$7\frac{3}{8}-\frac{1}{16}$
2	$5\frac{1}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$	2	$9\frac{1}{2}$	8	$6\frac{1}{16}$	3	$1\frac{7}{8}$	9	$7\frac{3}{4}-\frac{1}{16}$
2	$5\frac{1}{4}$	7	$4\frac{3}{4}$	2	$9\frac{5}{8}$	8	$6\frac{1}{2}$	3	2	9	$8\frac{1}{8}-\frac{1}{16}$
2	$5\frac{3}{8}$	7	$5\frac{1}{8}$	2	$9\frac{3}{4}$	8	$6\frac{7}{8}$	3	$2\frac{1}{8}$	9	$8\frac{1}{2}-\frac{1}{16}$

# 138    DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	2 $\frac{1}{4}$	9	9	3	6 $\frac{5}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	11	12	0 $\frac{1}{2}$
3	2 $\frac{3}{8}$	9	9 $\frac{3}{8}$	3	6 $\frac{3}{4}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	11 $\frac{1}{8}$	12	0 $\frac{7}{8}$
3	2 $\frac{1}{2}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	6 $\frac{7}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$	3	11 $\frac{1}{4}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$
3	2 $\frac{5}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	7	10	11 $\frac{7}{8}$ - $\frac{1}{16}$	3	11 $\frac{3}{8}$	12	1 $\frac{5}{8}$ - $\frac{1}{16}$
3	2 $\frac{3}{4}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	7 $\frac{1}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$	3	11 $\frac{1}{2}$	12	2 $\frac{1}{16}$
3	2 $\frac{7}{8}$	9	11	3	7 $\frac{1}{4}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$	3	11 $\frac{5}{8}$	12	2 $\frac{1}{2}$
3	3	9	11 $\frac{3}{8}$	3	7 $\frac{3}{8}$	11	1 $\frac{1}{16}$	3	11 $\frac{3}{4}$	12	2 $\frac{7}{8}$
3	3 $\frac{1}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{1}{2}$	11	1 $\frac{1}{2}$	3	11 $\frac{7}{8}$	12	3 $\frac{1}{4}$ - $\frac{1}{16}$
3	3 $\frac{1}{4}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{5}{8}$	11	1 $\frac{7}{8}$	4	0	12	3 $\frac{5}{8}$ - $\frac{1}{16}$
3	3 $\frac{3}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	7 $\frac{3}{4}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$	4	0 $\frac{1}{8}$	12	4 $\frac{1}{16}$
3	3 $\frac{1}{2}$	10	1	3	7 $\frac{7}{8}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{1}{4}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$
3	3 $\frac{5}{8}$	10	1 $\frac{3}{8}$	3	8	11	3 $\frac{1}{16}$	4	0 $\frac{3}{8}$	12	4 $\frac{3}{4}$ - $\frac{1}{16}$
3	3 $\frac{3}{4}$	10	1 $\frac{3}{4}$	3	8 $\frac{1}{8}$	11	3 $\frac{1}{2}$	4	0 $\frac{1}{2}$	12	5 $\frac{1}{8}$ - $\frac{1}{16}$
3	3 $\frac{7}{8}$	10	2 $\frac{1}{8}$	3	8 $\frac{1}{4}$	11	3 $\frac{7}{8}$	4	0 $\frac{5}{8}$	12	5 $\frac{1}{2}$ - $\frac{1}{16}$
3	4	10	2 $\frac{1}{2}$	3	8 $\frac{3}{8}$	11	4 $\frac{1}{4}$ - $\frac{1}{16}$	4	0 $\frac{3}{4}$	12	6
3	4 $\frac{1}{8}$	10	2 $\frac{7}{8}$	3	8 $\frac{1}{2}$	11	4 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{7}{8}$	12	6 $\frac{3}{8}$
3	4 $\frac{1}{4}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$	3	8 $\frac{5}{8}$	11	5 $\frac{1}{16}$	4	1	12	6 $\frac{3}{4}$ - $\frac{1}{16}$
3	4 $\frac{3}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$	3	8 $\frac{3}{4}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$	4	1 $\frac{1}{8}$	12	7 $\frac{1}{8}$ - $\frac{1}{16}$
3	4 $\frac{1}{2}$	10	4 $\frac{1}{8}$	3	8 $\frac{7}{8}$	11	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	1 $\frac{1}{4}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$
3	4 $\frac{5}{8}$	10	4 $\frac{1}{2}$	3	9	11	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	1 $\frac{3}{8}$	12	8
3	4 $\frac{3}{4}$	10	4 $\frac{7}{8}$	3	9 $\frac{1}{8}$	11	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	1 $\frac{1}{2}$	12	8 $\frac{3}{8}$
3	4 $\frac{7}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{1}{4}$	11	7	4	1 $\frac{5}{8}$	12	8 $\frac{3}{4}$ - $\frac{1}{16}$
3	5	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{3}{8}$	11	7 $\frac{3}{8}$	4	1 $\frac{3}{4}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$
3	5 $\frac{1}{8}$	10	6 $\frac{1}{16}$	3	9 $\frac{1}{2}$	11	7 $\frac{3}{4}$ - $\frac{1}{16}$	4	1 $\frac{7}{8}$	12	9 $\frac{1}{2}$ - $\frac{1}{16}$
3	5 $\frac{1}{4}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	9 $\frac{5}{8}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$	4	2	12	9 $\frac{7}{8}$
3	5 $\frac{3}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	9 $\frac{3}{4}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$	4	2 $\frac{1}{8}$	12	10 $\frac{1}{4}$ - $\frac{1}{16}$
3	5 $\frac{1}{2}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$	3	9 $\frac{7}{8}$	11	9	4	2 $\frac{1}{4}$	12	10 $\frac{5}{8}$ - $\frac{1}{16}$
3	5 $\frac{5}{8}$	10	7 $\frac{5}{8}$	3	10	11	9 $\frac{3}{8}$	4	2 $\frac{3}{8}$	12	11 $\frac{1}{16}$
3	5 $\frac{3}{4}$	10	8	3	10 $\frac{1}{8}$	11	9 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{1}{2}$	12	11 $\frac{1}{2}$
3	5 $\frac{7}{8}$	10	8 $\frac{3}{8}$	3	10 $\frac{1}{4}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{5}{8}$	12	11 $\frac{7}{8}$
3	6	10	8 $\frac{3}{4}$ - $\frac{1}{16}$	3	10 $\frac{3}{8}$	11	10 $\frac{1}{2}$ - $\frac{1}{16}$	4	2 $\frac{3}{4}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$
3	6 $\frac{1}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	10 $\frac{1}{2}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$	4	2 $\frac{7}{8}$	13	0 $\frac{5}{8}$ - $\frac{1}{16}$
3	6 $\frac{1}{4}$	10	9 $\frac{5}{8}$	3	10 $\frac{5}{8}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	3	13	1 $\frac{1}{16}$
3	6 $\frac{3}{8}$	10	10	3	10 $\frac{3}{4}$	11	11 $\frac{3}{8}$ - $\frac{1}{16}$	4	3 $\frac{1}{8}$	13	1 $\frac{1}{2}$
3	6 $\frac{1}{2}$	10	10 $\frac{3}{8}$	3	10 $\frac{7}{8}$	12	0 $\frac{1}{16}$	4	3 $\frac{1}{4}$	13	1 $\frac{5}{8}$

ANGLE-IRON RINGS (FLANGE INSIDE). 139

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{2}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	3 $\frac{3}{8}$	13	2 $\frac{1}{4}$ - $\frac{1}{16}$	4	6 $\frac{3}{8}$	13	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	9 $\frac{3}{8}$	14	9 $\frac{1}{8}$
4	3 $\frac{1}{2}$	13	2 $\frac{5}{8}$ - $\frac{1}{16}$	4	6 $\frac{1}{2}$	14	0 $\frac{1}{16}$	4	9 $\frac{1}{2}$	14	9 $\frac{1}{2}$
4	3 $\frac{5}{8}$	13	3 $\frac{1}{8}$	4	6 $\frac{5}{8}$	14	0 $\frac{1}{2}$	4	9 $\frac{5}{8}$	14	9 $\frac{7}{8}$
4	3 $\frac{3}{4}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$	4	6 $\frac{3}{4}$	14	0 $\frac{7}{8}$	4	9 $\frac{3}{4}$	14	10 $\frac{1}{4}$
4	3 $\frac{7}{8}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$	4	6 $\frac{7}{8}$	14	1 $\frac{1}{4}$	4	9 $\frac{7}{8}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$
4	4	13	4 $\frac{1}{8}$ - $\frac{1}{16}$	4	7	14	1 $\frac{5}{8}$	4	10	14	11 $\frac{1}{8}$
4	4 $\frac{1}{8}$	13	4 $\frac{1}{2}$ - $\frac{1}{16}$	4	7 $\frac{1}{8}$	14	2	4	10 $\frac{1}{8}$	14	11 $\frac{1}{2}$
4	4 $\frac{1}{4}$	13	5	4	7 $\frac{1}{4}$	14	2 $\frac{3}{8}$	4	10 $\frac{1}{4}$	14	11 $\frac{7}{8}$
4	4 $\frac{3}{8}$	13	5 $\frac{3}{8}$	4	7 $\frac{3}{8}$	14	2 $\frac{3}{4}$ - $\frac{1}{16}$	4	10 $\frac{3}{8}$	15	0 $\frac{1}{4}$
4	4 $\frac{1}{2}$	13	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	7 $\frac{1}{2}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$	4	10 $\frac{1}{2}$	15	0 $\frac{5}{8}$
4	4 $\frac{5}{8}$	13	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	7 $\frac{5}{8}$	14	3 $\frac{1}{2}$ - $\frac{1}{16}$	4	10 $\frac{5}{8}$	15	1
4	4 $\frac{3}{4}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	7 $\frac{3}{4}$	14	4	4	10 $\frac{3}{4}$	15	1 $\frac{3}{8}$
4	4 $\frac{7}{8}$	13	7	4	7 $\frac{7}{8}$	14	4 $\frac{3}{8}$	4	10 $\frac{7}{8}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$
4	5	13	7 $\frac{3}{8}$	4	8	14	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	11	15	2 $\frac{1}{8}$ - $\frac{1}{16}$
4	5 $\frac{1}{8}$	13	7 $\frac{3}{4}$	4	8 $\frac{1}{8}$	14	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	11 $\frac{1}{8}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$
4	5 $\frac{1}{4}$	13	8 $\frac{1}{8}$	4	8 $\frac{1}{4}$	14	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	11 $\frac{1}{4}$	15	3
4	5 $\frac{3}{8}$	13	8 $\frac{1}{2}$	4	8 $\frac{3}{8}$	14	6	4	11 $\frac{3}{8}$	15	3 $\frac{3}{8}$
4	5 $\frac{1}{2}$	13	8 $\frac{7}{8}$	4	8 $\frac{1}{2}$	14	6 $\frac{3}{8}$	4	11 $\frac{1}{2}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$
4	5 $\frac{5}{8}$	13	9 $\frac{1}{4}$ - $\frac{1}{16}$	4	8 $\frac{5}{8}$	14	6 $\frac{3}{4}$	4	11 $\frac{5}{8}$	15	4 $\frac{1}{8}$ - $\frac{1}{16}$
4	5 $\frac{3}{4}$	13	9 $\frac{5}{8}$ - $\frac{1}{16}$	4	8 $\frac{3}{4}$	14	7 $\frac{1}{8}$	4	11 $\frac{3}{4}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$
4	5 $\frac{7}{8}$	13	10- $\frac{1}{16}$	4	8 $\frac{7}{8}$	14	7 $\frac{1}{2}$	4	11 $\frac{7}{8}$	15	5
4	6	13	10 $\frac{1}{2}$	4	9	14	7 $\frac{7}{8}$	5	0	15	5 $\frac{3}{8}$
4	6 $\frac{1}{8}$	13	10 $\frac{7}{8}$	4	9 $\frac{1}{8}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$				
4	6 $\frac{1}{4}$	13	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	9 $\frac{1}{4}$	14	8 $\frac{5}{8}$ - $\frac{1}{16}$				

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	9 $\frac{3}{4}$	1	0 $\frac{5}{8}$	2	11 $\frac{5}{8}$ - $\frac{1}{16}$	1	1 $\frac{1}{4}$	3	1 $\frac{5}{8}$ - $\frac{1}{16}$
1	0 $\frac{1}{8}$	2	10 $\frac{1}{8}$	1	0 $\frac{3}{4}$	3	0 $\frac{1}{16}$	1	1 $\frac{3}{8}$	3	2 $\frac{1}{16}$
1	0 $\frac{1}{4}$	2	10 $\frac{1}{2}$ - $\frac{1}{16}$	1	0 $\frac{7}{8}$	3	0 $\frac{1}{2}$	1	1 $\frac{1}{2}$	3	2 $\frac{3}{8}$ - $\frac{1}{16}$
1	0 $\frac{3}{8}$	2	10 $\frac{7}{8}$ - $\frac{1}{16}$	1	1	3	0 $\frac{1}{8}$	1	1 $\frac{5}{8}$	3	2 $\frac{3}{4}$ - $\frac{1}{16}$
1	0 $\frac{1}{2}$	2	11 $\frac{1}{4}$ - $\frac{1}{16}$	1	1 $\frac{1}{8}$	3	1 $\frac{1}{4}$ - $\frac{1}{16}$	1	1 $\frac{3}{4}$	3	3 $\frac{1}{4}$

140 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$1\frac{7}{8}$	3	$3\frac{5}{8}$	1	$6\frac{1}{4}$	4	$5\frac{3}{8}$	1	$10\frac{5}{8}$	5	$7\frac{1}{8}$
1	2	3	$4\frac{1}{16}$	1	$6\frac{3}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$10\frac{3}{4}$	5	$7\frac{1}{2}$
1	$2\frac{1}{8}$	3	$4\frac{3}{8}-\frac{1}{16}$	1	$6\frac{1}{2}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$10\frac{7}{8}$	5	$7\frac{7}{8}$
1	$2\frac{1}{4}$	3	$4\frac{3}{4}-\frac{1}{16}$	1	$6\frac{5}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	11	5	$8\frac{1}{4}-\frac{1}{16}$
1	$2\frac{3}{8}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	$6\frac{3}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$11\frac{1}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$
1	$2\frac{1}{2}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$6\frac{7}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$11\frac{1}{4}$	5	$9\frac{1}{16}$
1	$2\frac{5}{8}$	3	6	1	7	4	$7\frac{3}{4}$	1	$11\frac{3}{8}$	5	$9\frac{1}{2}$
1	$2\frac{3}{4}$	3	$6\frac{3}{8}$	1	$7\frac{1}{8}$	4	$8\frac{1}{8}$	1	$11\frac{1}{2}$	5	$9\frac{7}{8}$
1	$2\frac{7}{8}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	$7\frac{1}{4}$	4	$8\frac{1}{2}$	1	$11\frac{5}{8}$	5	$10\frac{1}{4}$
1	3	3	$7\frac{1}{8}-\frac{1}{16}$	1	$7\frac{3}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$11\frac{3}{4}$	5	$10\frac{5}{8}$
1	$3\frac{1}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$7\frac{1}{2}$	4	$9\frac{1}{4}-\frac{1}{16}$	1	$11\frac{7}{8}$	5	$11\frac{1}{16}$
1	$3\frac{1}{4}$	3	$7\frac{3}{8}-\frac{1}{16}$	1	$7\frac{5}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	2	0	5	$11\frac{3}{8}-\frac{1}{16}$
1	$3\frac{3}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$7\frac{3}{4}$	4	$10\frac{1}{16}$	2	$0\frac{1}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$3\frac{1}{2}$	3	$8\frac{3}{4}$	1	$7\frac{7}{8}$	4	$10\frac{1}{2}$	2	$0\frac{1}{4}$	6	$0\frac{1}{4}$
1	$3\frac{5}{8}$	3	$9\frac{1}{8}$	1	8	4	$10\frac{7}{8}$	2	$0\frac{3}{8}$	6	$0\frac{5}{8}$
1	$3\frac{3}{4}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$8\frac{1}{8}$	4	$11\frac{1}{4}$	2	$0\frac{1}{2}$	6	1
1	$3\frac{7}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$8\frac{1}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	$0\frac{5}{8}$	6	$1\frac{3}{8}$
1	4	3	$10\frac{1}{4}-\frac{1}{16}$	1	$8\frac{3}{8}$	5	$0\frac{1}{16}$	2	$0\frac{3}{4}$	6	$1\frac{3}{4}-\frac{1}{16}$
1	$4\frac{1}{8}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$8\frac{1}{2}$	5	$0\frac{3}{8}-\frac{1}{16}$	2	$0\frac{7}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	$4\frac{1}{4}$	3	$11\frac{1}{16}$	1	$8\frac{5}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	2	1	6	$2\frac{1}{2}-\frac{1}{16}$
1	$4\frac{3}{8}$	3	$11\frac{1}{2}$	1	$8\frac{3}{4}$	5	$1\frac{1}{4}$	2	$1\frac{1}{8}$	6	3
1	$4\frac{1}{2}$	3	$11\frac{7}{8}$	1	$8\frac{7}{8}$	5	$1\frac{5}{8}$	2	$1\frac{1}{4}$	6	$3\frac{3}{8}$
1	$4\frac{5}{8}$	4	$0\frac{1}{4}$	1	9	5	2	2	$1\frac{3}{8}$	6	$3\frac{3}{4}$
1	$4\frac{3}{4}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$9\frac{1}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	2	$1\frac{1}{2}$	6	$4\frac{1}{8}$
1	$4\frac{7}{8}$	4	$1\frac{1}{16}$	1	$9\frac{1}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	2	$1\frac{5}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$
1	5	4	$1\frac{3}{8}-\frac{1}{16}$	1	$9\frac{3}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	2	$1\frac{3}{4}$	6	$4\frac{7}{8}-\frac{1}{16}$
1	$5\frac{1}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$9\frac{1}{2}$	5	$3\frac{1}{2}-\frac{1}{16}$	2	$1\frac{7}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	$5\frac{1}{4}$	4	$2\frac{1}{4}$	1	$9\frac{5}{8}$	5	4	2	2	6	$5\frac{3}{4}$
1	$5\frac{3}{8}$	4	$2\frac{3}{8}$	1	$9\frac{3}{4}$	5	$4\frac{3}{8}$	2	$2\frac{1}{8}$	6	$6\frac{1}{8}$
1	$5\frac{1}{2}$	4	$3\frac{1}{16}$	1	$9\frac{7}{8}$	5	$4\frac{3}{4}$	2	$2\frac{1}{4}$	6	$6\frac{1}{2}$
1	$5\frac{5}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	10	5	$5\frac{1}{8}-\frac{1}{16}$	2	$2\frac{3}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$5\frac{3}{4}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	$2\frac{1}{2}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	$5\frac{7}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$10\frac{1}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	$2\frac{5}{8}$	6	$7\frac{3}{4}$
1	6	4	$4\frac{1}{2}-\frac{1}{16}$	1	$10\frac{3}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	$2\frac{3}{4}$	6	$8\frac{1}{8}$
1	$6\frac{1}{8}$	4	5	1	$10\frac{1}{2}$	5	$6\frac{3}{4}$	2	$2\frac{7}{8}$	6	$8\frac{1}{2}$



ANGLE-IRON RINGS (FLANGE INSIDE). 141

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	3	6	$8\frac{7}{8}$	2	$7\frac{3}{8}$	7	$10\frac{5}{8}$	2	$11\frac{3}{4}$	9	$0\frac{3}{8}$
2	$3\frac{1}{8}$	6	$9\frac{1}{4}$	2	$7\frac{1}{2}$	7	11	2	$11\frac{7}{8}$	9	$0\frac{3}{4}-\frac{1}{16}$
2	$3\frac{1}{4}$	6	$9\frac{5}{8}-\frac{1}{16}$	2	$7\frac{5}{8}$	7	$11\frac{3}{8}$	3	0	9	$1\frac{1}{8}-\frac{1}{16}$
2	$3\frac{3}{8}$	6	$10\frac{1}{16}$	2	$7\frac{3}{4}$	7	$11\frac{3}{4}-\frac{1}{16}$	3	$0\frac{1}{8}$	9	$1\frac{5}{8}$
2	$3\frac{1}{2}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	$7\frac{7}{8}$	8	$0\frac{1}{8}-\frac{1}{16}$	3	$0\frac{1}{4}$	9	2
2	$3\frac{5}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$	2	8	8	$0\frac{1}{2}-\frac{1}{16}$	3	$0\frac{3}{8}$	9	$2\frac{3}{8}$
2	$3\frac{3}{4}$	6	$11\frac{1}{4}$	2	$8\frac{1}{8}$	8	1	3	$0\frac{1}{2}$	9	$2\frac{3}{4}$
2	$3\frac{7}{8}$	6	$11\frac{5}{8}$	2	$8\frac{1}{4}$	8	$1\frac{3}{8}$	3	$0\frac{5}{8}$	9	$3\frac{1}{8}$
2	4	7	0	2	$8\frac{3}{8}$	8	$1\frac{3}{4}-\frac{1}{16}$	3	$0\frac{3}{4}$	9	$3\frac{1}{2}$
2	$4\frac{1}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$8\frac{1}{2}$	8	$2\frac{1}{8}-\frac{1}{16}$	3	$0\frac{7}{8}$	9	$3\frac{7}{8}$
2	$4\frac{1}{4}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	$8\frac{5}{8}$	8	$2\frac{1}{2}-\frac{1}{16}$	3	1	9	$4\frac{1}{4}-\frac{1}{16}$
2	$4\frac{3}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	$8\frac{3}{4}$	8	3	3	$1\frac{1}{8}$	9	$4\frac{5}{8}-\frac{1}{16}$
2	$4\frac{1}{2}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	$8\frac{7}{8}$	8	$3\frac{3}{8}$	3	$1\frac{1}{4}$	9	$5\frac{1}{16}$
2	$4\frac{5}{8}$	7	2	2	9	8	$3\frac{3}{4}$	3	$1\frac{3}{8}$	9	$5\frac{1}{2}$
2	$4\frac{3}{4}$	7	$2\frac{3}{8}$	2	$9\frac{1}{8}$	8	$4\frac{1}{8}$	3	$1\frac{1}{2}$	9	$5\frac{7}{8}$
2	$4\frac{7}{8}$	7	$2\frac{3}{4}$	2	$9\frac{1}{4}$	8	$4\frac{1}{2}$	3	$1\frac{5}{8}$	9	$6\frac{1}{4}-\frac{1}{16}$
2	5	7	$3\frac{1}{8}$	2	$9\frac{3}{8}$	8	$4\frac{7}{8}$	3	$1\frac{3}{4}$	9	$6\frac{5}{8}-\frac{1}{16}$
2	$5\frac{1}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$9\frac{1}{2}$	8	$5\frac{1}{4}-\frac{1}{16}$	3	$1\frac{7}{8}$	9	$7\frac{1}{16}$
2	$5\frac{1}{4}$	7	$3\frac{3}{8}-\frac{1}{16}$	2	$9\frac{5}{8}$	8	$5\frac{5}{8}-\frac{1}{16}$	3	2	9	$7\frac{3}{8}-\frac{1}{16}$
2	$5\frac{3}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$	2	$9\frac{3}{4}$	8	$6\frac{1}{16}$	3	$2\frac{1}{8}$	9	$7\frac{3}{4}-\frac{1}{16}$
2	$5\frac{1}{2}$	7	$4\frac{3}{4}$	2	$9\frac{7}{8}$	8	$6\frac{1}{2}$	3	$2\frac{1}{4}$	9	$8\frac{1}{8}-\frac{1}{16}$
2	$5\frac{5}{8}$	7	$5\frac{1}{8}$	2	10	8	$6\frac{7}{8}$	3	$2\frac{3}{8}$	9	$8\frac{1}{2}-\frac{1}{16}$
2	$5\frac{3}{4}$	7	$5\frac{1}{2}$	2	$10\frac{1}{8}$	8	$7\frac{1}{4}-\frac{1}{16}$	3	$2\frac{1}{2}$	9	9
2	$5\frac{7}{8}$	7	$5\frac{7}{8}$	2	$10\frac{1}{4}$	8	$7\frac{5}{8}-\frac{1}{16}$	3	$2\frac{5}{8}$	9	$9\frac{3}{8}$
2	6	7	$6\frac{1}{4}-\frac{1}{16}$	2	$10\frac{3}{8}$	8	$8\frac{1}{16}$	3	$2\frac{3}{4}$	9	$9\frac{3}{4}-\frac{1}{16}$
2	$6\frac{1}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$	2	$10\frac{1}{2}$	8	$8\frac{1}{2}$	3	$2\frac{7}{8}$	9	$10\frac{1}{8}-\frac{1}{16}$
2	$6\frac{1}{4}$	7	$7\frac{1}{16}$	2	$10\frac{5}{8}$	8	$8\frac{7}{8}$	3	3	9	$10\frac{1}{2}-\frac{1}{16}$
2	$6\frac{3}{8}$	7	$7\frac{3}{8}-\frac{1}{16}$	2	$10\frac{3}{4}$	8	$9\frac{1}{4}$	3	$3\frac{1}{8}$	9	11
2	$6\frac{1}{2}$	7	$7\frac{7}{8}$	2	$10\frac{7}{8}$	8	$9\frac{5}{8}$	3	$3\frac{1}{4}$	9	$11\frac{3}{8}$
2	$6\frac{5}{8}$	7	$8\frac{1}{4}$	2	11	8	10	3	$3\frac{3}{8}$	9	$11\frac{3}{4}-\frac{1}{16}$
2	$6\frac{3}{4}$	7	$8\frac{5}{8}$	2	$11\frac{1}{8}$	8	$10\frac{3}{8}$	3	$3\frac{1}{2}$	10	$0\frac{1}{8}-\frac{1}{16}$
2	$6\frac{7}{8}$	7	$9\frac{1}{16}$	2	$11\frac{1}{4}$	8	$10\frac{3}{4}-\frac{1}{16}$	3	$3\frac{5}{8}$	10	$0\frac{1}{2}-\frac{1}{16}$
2	7	7	$9\frac{3}{8}-\frac{1}{16}$	2	$11\frac{3}{8}$	8	$11\frac{1}{8}-\frac{1}{16}$	3	$3\frac{3}{4}$	10	1
2	$7\frac{1}{8}$	7	$9\frac{3}{4}-\frac{1}{16}$	2	$11\frac{1}{2}$	8	$11\frac{5}{8}$	3	$3\frac{7}{8}$	10	$1\frac{3}{8}$
2	$7\frac{1}{4}$	7	$10\frac{1}{4}$	2	$11\frac{5}{8}$	9	0	3	4	10	$1\frac{3}{4}$

# 142 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$4\frac{1}{8}$	10	$2\frac{1}{8}$	3	$8\frac{1}{2}$	11	$3\frac{7}{8}$	4	$0\frac{7}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$
3	$4\frac{1}{4}$	10	$2\frac{1}{2}$	3	$8\frac{3}{8}$	11	$4\frac{1}{4}-\frac{1}{16}$	4	1	12	6
3	$4\frac{7}{8}$	10	$2\frac{7}{8}$	3	$8\frac{3}{4}$	11	$4\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{8}$	12	$6\frac{3}{8}$
3	$4\frac{1}{2}$	10	$3\frac{1}{4}-\frac{1}{16}$	3	$8\frac{7}{8}$	11	$5\frac{1}{16}$	4	$1\frac{1}{4}$	12	$6\frac{3}{4}-\frac{1}{16}$
3	$4\frac{5}{8}$	10	$3\frac{5}{8}-\frac{1}{16}$	3	9	11	$5\frac{3}{8}-\frac{1}{16}$	4	$1\frac{3}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$
3	$4\frac{3}{4}$	10	$4\frac{1}{8}$	3	$9\frac{1}{8}$	11	$5\frac{3}{4}-\frac{1}{16}$	4	$1\frac{1}{2}$	12	$7\frac{1}{2}-\frac{1}{16}$
3	$4\frac{7}{8}$	10	$4\frac{1}{2}$	3	$9\frac{1}{4}$	11	$6\frac{1}{8}-\frac{1}{16}$	4	$1\frac{5}{8}$	12	8
3	5	10	$4\frac{7}{8}$	3	$9\frac{3}{8}$	11	$6\frac{1}{2}-\frac{1}{16}$	4	$1\frac{3}{4}$	12	$8\frac{3}{8}$
3	$5\frac{1}{8}$	10	$5\frac{1}{4}-\frac{1}{16}$	3	$9\frac{1}{2}$	11	7	4	$1\frac{7}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$
3	$5\frac{1}{4}$	10	$5\frac{5}{8}-\frac{1}{16}$	3	$9\frac{5}{8}$	11	$7\frac{3}{8}$	4	2	12	$9\frac{1}{8}-\frac{1}{16}$
3	$5\frac{3}{8}$	10	$6\frac{1}{16}$	3	$9\frac{3}{4}$	11	$7\frac{3}{4}-\frac{1}{16}$	4	$2\frac{1}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$
3	$5\frac{1}{2}$	10	$6\frac{3}{8}-\frac{1}{16}$	3	$9\frac{7}{8}$	11	$8\frac{1}{8}-\frac{1}{16}$	4	$2\frac{1}{4}$	12	$9\frac{7}{8}-\frac{1}{16}$
3	$5\frac{5}{8}$	10	$6\frac{3}{4}-\frac{1}{16}$	3	10	11	$8\frac{1}{2}-\frac{1}{16}$	4	$2\frac{3}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$
3	$5\frac{3}{4}$	10	$7\frac{1}{8}-\frac{1}{16}$	3	$10\frac{1}{8}$	11	9	4	$2\frac{1}{2}$	12	$10\frac{5}{8}-\frac{1}{16}$
3	$5\frac{7}{8}$	10	$7\frac{5}{8}$	3	$10\frac{1}{4}$	11	$9\frac{3}{8}$	4	$2\frac{5}{8}$	12	$11\frac{1}{16}$
3	6	10	8	3	$10\frac{3}{8}$	11	$9\frac{3}{4}-\frac{1}{16}$	4	$2\frac{3}{4}$	12	$11\frac{1}{2}$
3	$6\frac{1}{8}$	10	$8\frac{3}{8}$	3	$10\frac{1}{2}$	11	$10\frac{1}{8}-\frac{1}{16}$	4	$2\frac{7}{8}$	12	$11\frac{7}{8}$
3	$6\frac{1}{4}$	10	$8\frac{3}{4}-\frac{1}{16}$	3	$10\frac{5}{8}$	11	$10\frac{1}{2}-\frac{1}{16}$	4	3	13	$0\frac{1}{4}-\frac{1}{16}$
3	$6\frac{3}{8}$	10	$9\frac{1}{8}-\frac{1}{16}$	3	$10\frac{3}{4}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	$3\frac{1}{8}$	13	$0\frac{5}{8}-\frac{1}{16}$
3	$6\frac{1}{2}$	10	$9\frac{5}{8}$	3	$10\frac{7}{8}$	11	$11\frac{1}{4}-\frac{1}{16}$	4	$3\frac{1}{4}$	13	$1\frac{1}{16}$
3	$6\frac{5}{8}$	10	10	3	11	11	$11\frac{5}{8}-\frac{1}{16}$	4	$3\frac{3}{8}$	13	$1\frac{1}{2}$
3	$6\frac{3}{4}$	10	$10\frac{3}{8}$	3	$11\frac{1}{8}$	12	$0\frac{1}{16}$	4	$3\frac{1}{2}$	13	$1\frac{7}{8}$
3	$6\frac{7}{8}$	10	$10\frac{3}{4}-\frac{1}{16}$	3	$11\frac{1}{4}$	12	$0\frac{1}{2}$	4	$3\frac{5}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$
3	7	10	$11\frac{1}{8}-\frac{1}{16}$	3	$11\frac{3}{8}$	12	$0\frac{7}{8}$	4	$3\frac{3}{4}$	13	$2\frac{5}{8}-\frac{1}{16}$
3	$7\frac{1}{8}$	10	$11\frac{1}{2}-\frac{1}{16}$	3	$11\frac{1}{2}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	$3\frac{7}{8}$	13	$3\frac{1}{16}$
3	$7\frac{1}{4}$	10	$11\frac{7}{8}-\frac{1}{16}$	3	$11\frac{5}{8}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	4	13	$3\frac{3}{8}-\frac{1}{16}$
3	$7\frac{3}{8}$	11	$0\frac{1}{4}-\frac{1}{16}$	3	$11\frac{3}{4}$	12	$2\frac{1}{16}$	4	$4\frac{1}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$
3	$7\frac{1}{2}$	11	$0\frac{5}{8}-\frac{1}{16}$	3	$11\frac{7}{8}$	12	$2\frac{1}{2}$	4	$4\frac{1}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$
3	$7\frac{5}{8}$	11	$1\frac{1}{16}$	4	0	12	$2\frac{7}{8}$	4	$4\frac{3}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$
3	$7\frac{3}{4}$	11	$1\frac{1}{2}$	4	$0\frac{1}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	$4\frac{1}{2}$	13	5
3	$7\frac{7}{8}$	11	$1\frac{7}{8}$	4	$0\frac{1}{4}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$4\frac{5}{8}$	13	$5\frac{3}{8}$
3	8	11	$2\frac{1}{4}-\frac{1}{16}$	4	$0\frac{3}{8}$	12	$4\frac{1}{16}$	4	$4\frac{3}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$
3	$8\frac{1}{8}$	11	$2\frac{5}{8}-\frac{1}{16}$	4	$0\frac{1}{2}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$4\frac{7}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$
3	$8\frac{1}{4}$	11	$3\frac{1}{16}$	4	$0\frac{5}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	5	13	$6\frac{1}{2}-\frac{1}{16}$
3	$8\frac{3}{8}$	11	$3\frac{1}{2}$	4	$0\frac{3}{4}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$5\frac{1}{8}$	13	7

ANGLE-IRON RINGS (FLANGE INSIDE). 143

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	5 $\frac{1}{4}$	13	7 $\frac{3}{8}$	4	9 $\frac{5}{8}$	14	9 $\frac{1}{8}$	5	2	15	10 $\frac{7}{8}$
4	5 $\frac{3}{8}$	13	7 $\frac{3}{4}$	4	9 $\frac{3}{4}$	14	9 $\frac{1}{2}$	5	2 $\frac{1}{8}$	15	11 $\frac{1}{4}$
4	5 $\frac{1}{2}$	13	8 $\frac{1}{8}$	4	9 $\frac{7}{8}$	14	9 $\frac{7}{8}$	5	2 $\frac{1}{4}$	15	11 $\frac{5}{8}$
4	5 $\frac{5}{8}$	13	8 $\frac{1}{2}$	4	10	14	10 $\frac{1}{4}$	5	2 $\frac{3}{8}$	16	0
4	5 $\frac{3}{4}$	13	8 $\frac{7}{8}$	4	10 $\frac{1}{8}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$	5	2 $\frac{1}{2}$	16	0 $\frac{3}{8}$
4	5 $\frac{7}{8}$	13	9 $\frac{1}{4}$ - $\frac{1}{16}$	4	10 $\frac{1}{4}$	14	11 $\frac{1}{8}$	5	2 $\frac{5}{8}$	16	0 $\frac{3}{4}$ - $\frac{1}{16}$
4	6	13	9 $\frac{5}{8}$ - $\frac{1}{16}$	4	10 $\frac{3}{8}$	14	11 $\frac{1}{2}$	5	2 $\frac{3}{4}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$
4	6 $\frac{1}{8}$	13	10 $\frac{1}{16}$	4	10 $\frac{1}{2}$	14	11 $\frac{7}{8}$	5	2 $\frac{7}{8}$	16	1 $\frac{1}{2}$ - $\frac{1}{16}$
4	6 $\frac{1}{4}$	13	10 $\frac{1}{2}$	4	10 $\frac{5}{8}$	15	0 $\frac{1}{4}$	5	3	16	2
4	6 $\frac{3}{8}$	13	10 $\frac{7}{8}$	4	10 $\frac{3}{4}$	15	0 $\frac{5}{8}$	5	3 $\frac{1}{8}$	16	2 $\frac{3}{8}$
4	6 $\frac{1}{2}$	13	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	10 $\frac{7}{8}$	15	1	5	3 $\frac{1}{4}$	16	2 $\frac{3}{4}$ - $\frac{1}{16}$
4	6 $\frac{5}{8}$	13	11 $\frac{3}{8}$ - $\frac{1}{16}$	4	11	15	1 $\frac{3}{8}$	5	3 $\frac{3}{8}$	16	3 $\frac{1}{8}$ - $\frac{1}{16}$
4	6 $\frac{3}{4}$	14	0 $\frac{1}{16}$	4	11 $\frac{1}{8}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	3 $\frac{1}{2}$	16	3 $\frac{1}{2}$ - $\frac{1}{16}$
4	6 $\frac{7}{8}$	14	0 $\frac{1}{2}$	4	11 $\frac{1}{4}$	15	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	3 $\frac{5}{8}$	16	4
4	7	14	0 $\frac{7}{8}$	4	11 $\frac{3}{8}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	3 $\frac{3}{4}$	16	4 $\frac{3}{8}$
4	7 $\frac{1}{8}$	14	1 $\frac{1}{4}$	4	11 $\frac{1}{2}$	15	3	5	3 $\frac{7}{8}$	16	4 $\frac{3}{4}$
4	7 $\frac{1}{4}$	14	1 $\frac{5}{8}$	4	11 $\frac{5}{8}$	15	3 $\frac{3}{8}$	5	4	16	5 $\frac{1}{8}$
4	7 $\frac{3}{8}$	14	2	4	11 $\frac{3}{4}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$	5	4 $\frac{1}{8}$	16	5 $\frac{1}{2}$
4	7 $\frac{1}{2}$	14	2 $\frac{3}{8}$	4	11 $\frac{7}{8}$	15	4 $\frac{1}{8}$ - $\frac{1}{16}$	5	4 $\frac{1}{4}$	16	5 $\frac{7}{8}$
4	7 $\frac{5}{8}$	14	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	0	15	4 $\frac{1}{2}$ - $\frac{1}{16}$	5	4 $\frac{3}{8}$	16	6 $\frac{1}{4}$ - $\frac{1}{16}$
4	7 $\frac{3}{4}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$	5	0 $\frac{1}{8}$	15	5	5	4 $\frac{1}{2}$	16	6 $\frac{5}{8}$ - $\frac{1}{16}$
4	7 $\frac{7}{8}$	14	3 $\frac{1}{2}$ - $\frac{1}{16}$	5	0 $\frac{1}{4}$	15	5 $\frac{3}{8}$	5	4 $\frac{5}{8}$	16	7 $\frac{1}{8}$
4	8	14	4	5	0 $\frac{3}{8}$	15	5 $\frac{3}{4}$	5	4 $\frac{3}{4}$	16	7 $\frac{1}{2}$
4	8 $\frac{1}{8}$	14	4 $\frac{3}{8}$	5	0 $\frac{1}{2}$	15	6 $\frac{1}{8}$	5	4 $\frac{7}{8}$	16	7 $\frac{7}{8}$
4	8 $\frac{1}{4}$	14	4 $\frac{3}{4}$ - $\frac{1}{16}$	5	0 $\frac{5}{8}$	15	6 $\frac{1}{2}$	5	5	16	8 $\frac{1}{4}$ - $\frac{1}{16}$
4	8 $\frac{3}{8}$	14	5 $\frac{1}{8}$ - $\frac{1}{16}$	5	0 $\frac{3}{4}$	15	6 $\frac{7}{8}$	5	5 $\frac{1}{8}$	16	8 $\frac{5}{8}$ - $\frac{1}{16}$
4	8 $\frac{1}{2}$	14	5 $\frac{1}{2}$ - $\frac{1}{16}$	5	0 $\frac{7}{8}$	15	7 $\frac{1}{4}$ - $\frac{1}{16}$	5	5 $\frac{1}{4}$	16	9 $\frac{1}{8}$
4	8 $\frac{5}{8}$	14	6	5	1	15	7 $\frac{5}{8}$ - $\frac{1}{16}$	5	5 $\frac{3}{8}$	16	9 $\frac{1}{2}$
4	8 $\frac{3}{4}$	14	6 $\frac{3}{8}$	5	1 $\frac{1}{8}$	15	8 $\frac{1}{8}$	5	5 $\frac{1}{2}$	16	9 $\frac{7}{8}$
4	8 $\frac{7}{8}$	14	6 $\frac{3}{4}$	5	1 $\frac{1}{4}$	15	8 $\frac{1}{2}$	5	5 $\frac{5}{8}$	16	10 $\frac{1}{4}$
4	9	14	7 $\frac{1}{8}$	5	1 $\frac{3}{8}$	15	8 $\frac{7}{8}$	5	5 $\frac{3}{4}$	16	10 $\frac{5}{8}$
4	9 $\frac{1}{8}$	14	7 $\frac{1}{2}$	5	1 $\frac{1}{2}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$	5	5 $\frac{7}{8}$	16	11
4	9 $\frac{1}{4}$	14	7 $\frac{7}{8}$	5	1 $\frac{5}{8}$	15	9 $\frac{5}{8}$ - $\frac{1}{16}$	5	6	16	11 $\frac{3}{8}$
4	9 $\frac{3}{8}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	1 $\frac{3}{4}$	15	10 $\frac{1}{16}$	5	6 $\frac{1}{8}$	16	11 $\frac{3}{4}$ - $\frac{1}{16}$
4	9 $\frac{1}{2}$	14	8 $\frac{7}{8}$ - $\frac{1}{16}$	5	1 $\frac{7}{8}$	15	10 $\frac{1}{2}$	5	6 $\frac{1}{4}$	17	0 $\frac{1}{8}$ - $\frac{1}{16}$

144 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	$6\frac{3}{8}$	17	$0\frac{1}{2}-\frac{1}{16}$	5	$10\frac{3}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$	6	$3\frac{1}{8}$	19	$4\frac{1}{8}$
5	$6\frac{1}{2}$	17	1	5	$10\frac{7}{8}$	18	$2\frac{5}{8}-\frac{1}{16}$	6	$3\frac{1}{4}$	19	$4\frac{1}{2}$
5	$6\frac{5}{8}$	17	$1\frac{3}{8}$	5	11	18	$3\frac{1}{8}$	6	$3\frac{3}{8}$	19	$4\frac{7}{8}$
5	$6\frac{3}{4}$	17	$1\frac{3}{4}-\frac{1}{16}$	5	$11\frac{1}{8}$	18	$3\frac{1}{2}$	6	$3\frac{1}{2}$	19	$5\frac{1}{4}-\frac{1}{16}$
5	$6\frac{7}{8}$	17	$2\frac{1}{8}-\frac{1}{16}$	5	$11\frac{1}{4}$	18	$3\frac{7}{8}$	6	$3\frac{5}{8}$	19	$5\frac{5}{8}-\frac{1}{16}$
5	7	17	$2\frac{1}{2}-\frac{1}{16}$	5	$11\frac{3}{8}$	18	$4\frac{1}{4}-\frac{1}{16}$	6	$3\frac{3}{4}$	19	$6\frac{1}{16}$
5	$7\frac{1}{8}$	17	3	5	$11\frac{1}{2}$	18	$4\frac{5}{8}-\frac{1}{16}$	6	$3\frac{7}{8}$	19	$6\frac{3}{8}-\frac{1}{16}$
5	$7\frac{1}{4}$	17	$3\frac{3}{8}$	5	$11\frac{5}{8}$	18	$5\frac{1}{8}$	6	4	19	$6\frac{3}{4}-\frac{1}{16}$
5	$7\frac{3}{8}$	17	$3\frac{3}{4}$	5	$11\frac{3}{4}$	18	$5\frac{1}{2}$	6	$4\frac{1}{8}$	19	$7\frac{1}{8}-\frac{1}{16}$
5	$7\frac{1}{2}$	17	$4\frac{1}{8}$	5	$11\frac{7}{8}$	18	$5\frac{7}{8}$	6	$4\frac{1}{4}$	19	$7\frac{1}{2}-\frac{1}{16}$
5	$7\frac{5}{8}$	17	$4\frac{1}{2}$	6	0	18	$6\frac{1}{4}-\frac{1}{16}$	6	$4\frac{3}{8}$	19	8
5	$7\frac{3}{4}$	17	$4\frac{7}{8}$	6	$0\frac{1}{8}$	18	$6\frac{5}{8}-\frac{1}{16}$	6	$4\frac{1}{2}$	19	$8\frac{3}{8}$
5	$7\frac{7}{8}$	17	$5\frac{1}{4}$	6	$0\frac{1}{4}$	18	$7\frac{1}{16}$	6	$4\frac{5}{8}$	19	$8\frac{3}{4}-\frac{1}{16}$
5	8	17	$5\frac{3}{8}-\frac{1}{16}$	6	$0\frac{3}{8}$	18	$7\frac{3}{8}-\frac{1}{16}$	6	$4\frac{3}{4}$	19	$9\frac{1}{8}-\frac{1}{16}$
5	$8\frac{1}{8}$	17	$6\frac{1}{8}$	6	$0\frac{1}{2}$	18	$7\frac{3}{4}-\frac{1}{16}$	6	$4\frac{7}{8}$	19	$9\frac{1}{2}-\frac{1}{16}$
5	$8\frac{1}{4}$	17	$6\frac{1}{2}$	6	$0\frac{5}{8}$	18	$8\frac{1}{8}-\frac{1}{16}$	6	5	19	10
5	$8\frac{3}{8}$	17	$6\frac{7}{8}$	6	$0\frac{3}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$	6	$5\frac{1}{8}$	19	$10\frac{3}{8}$
5	$8\frac{1}{2}$	17	$7\frac{1}{4}$	6	$0\frac{7}{8}$	18	9	6	$5\frac{1}{4}$	19	$10\frac{3}{4}-\frac{1}{16}$
5	$8\frac{5}{8}$	17	$7\frac{5}{8}-\frac{1}{16}$	6	1	18	$9\frac{3}{8}$	6	$5\frac{3}{8}$	19	$11\frac{1}{8}-\frac{1}{16}$
5	$8\frac{3}{4}$	17	$8\frac{1}{8}$	6	$1\frac{1}{8}$	18	$9\frac{3}{4}-\frac{1}{16}$	6	$5\frac{1}{2}$	19	$11\frac{1}{2}-\frac{1}{16}$
5	$8\frac{7}{8}$	17	$8\frac{1}{2}$	6	$1\frac{1}{4}$	18	$10\frac{3}{8}-\frac{1}{16}$	6	$5\frac{5}{8}$	19	$11\frac{7}{8}-\frac{1}{16}$
5	9	17	$8\frac{7}{8}$	6	$1\frac{3}{8}$	18	$10\frac{1}{2}-\frac{1}{16}$	6	$5\frac{3}{4}$	20	$0\frac{1}{4}-\frac{1}{16}$
5	$9\frac{1}{8}$	17	$9\frac{1}{4}$	6	$1\frac{1}{2}$	18	11	6	$5\frac{7}{8}$	20	$0\frac{5}{8}-\frac{1}{16}$
5	$9\frac{1}{4}$	17	$9\frac{5}{8}$	6	$1\frac{5}{8}$	18	$11\frac{3}{8}$	6	6	20	$1\frac{1}{8}$
5	$9\frac{3}{8}$	17	10	6	$1\frac{3}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$	6	$6\frac{1}{8}$	20	$1\frac{1}{2}$
5	$9\frac{1}{2}$	17	$10\frac{3}{8}$	6	$1\frac{7}{8}$	19	$0\frac{1}{8}-\frac{1}{16}$	6	$6\frac{1}{4}$	20	$1\frac{7}{8}$
5	$9\frac{5}{8}$	17	$10\frac{3}{4}-\frac{1}{16}$	6	2	19	$0\frac{1}{2}-\frac{1}{16}$	6	$6\frac{3}{8}$	20	$2\frac{1}{4}-\frac{1}{16}$
5	$9\frac{3}{4}$	17	$11\frac{1}{8}-\frac{1}{16}$	6	$2\frac{1}{8}$	19	$0\frac{7}{8}-\frac{1}{16}$	6	$6\frac{1}{2}$	20	$2\frac{3}{8}-\frac{1}{16}$
5	$9\frac{7}{8}$	17	$11\frac{1}{2}-\frac{1}{16}$	6	$2\frac{1}{4}$	19	$1\frac{1}{4}-\frac{1}{16}$	6	$6\frac{5}{8}$	20	$3\frac{1}{8}$
5	10	18	0	6	$2\frac{3}{8}$	19	$1\frac{5}{8}-\frac{1}{16}$	6	$6\frac{3}{4}$	20	$3\frac{1}{2}$
5	$10\frac{1}{8}$	18	$0\frac{3}{8}$	6	$2\frac{1}{2}$	19	$2\frac{1}{8}$	6	$6\frac{7}{8}$	20	$3\frac{7}{8}$
5	$10\frac{1}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$	6	$2\frac{5}{8}$	19	$2\frac{1}{2}$	6	7	20	$4\frac{1}{4}-\frac{1}{16}$
5	$10\frac{3}{8}$	18	$1\frac{1}{8}-\frac{1}{16}$	6	$2\frac{3}{4}$	19	$2\frac{7}{8}$	6	$7\frac{1}{8}$	20	$4\frac{5}{8}-\frac{1}{16}$
5	$10\frac{1}{2}$	18	$1\frac{1}{2}-\frac{1}{16}$	6	$2\frac{7}{8}$	19	$3\frac{1}{4}-\frac{1}{16}$	6	$7\frac{1}{4}$	20	$5\frac{1}{16}$
5	$10\frac{5}{8}$	18	$1\frac{7}{8}-\frac{1}{16}$	6	3	19	$3\frac{3}{8}-\frac{1}{16}$	6	$7\frac{3}{8}$	20	$5\frac{3}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 145

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$7\frac{1}{2}$	20	$5\frac{3}{4}-\frac{1}{16}$	6	$9\frac{1}{8}$	20	$10\frac{7}{8}$	6	$10\frac{3}{4}$	21	4
6	$7\frac{5}{8}$	20	$6\frac{1}{8}-\frac{1}{16}$	6	$9\frac{1}{4}$	20	$11\frac{1}{4}-\frac{1}{16}$	6	$10\frac{7}{8}$	21	$4\frac{3}{8}$
6	$7\frac{3}{4}$	20	$6\frac{1}{2}-\frac{1}{16}$	6	$9\frac{3}{8}$	20	$11\frac{5}{8}-\frac{1}{16}$	6	11	21	$4\frac{3}{4}-\frac{1}{16}$
6	$7\frac{7}{8}$	20	7	6	$9\frac{1}{2}$	21	$0\frac{1}{8}$	6	$11\frac{1}{8}$	21	$5\frac{1}{8}-\frac{1}{16}$
6	8	20	$7\frac{3}{8}$	6	$9\frac{5}{8}$	21	$0\frac{1}{2}$	6	$11\frac{1}{4}$	21	$5\frac{1}{2}-\frac{1}{16}$
6	$8\frac{1}{8}$	20	$7\frac{3}{4}-\frac{1}{16}$	6	$9\frac{3}{4}$	21	$0\frac{7}{8}$	6	$11\frac{3}{8}$	21	6
6	$8\frac{1}{4}$	20	$8\frac{1}{8}-\frac{1}{16}$	6	$9\frac{7}{8}$	21	$1\frac{1}{4}-\frac{1}{16}$	6	$11\frac{1}{2}$	21	$6\frac{3}{8}$
6	$8\frac{3}{8}$	20	$8\frac{1}{2}-\frac{1}{16}$	6	10	21	$1\frac{5}{8}-\frac{1}{16}$	6	$11\frac{5}{8}$	21	$6\frac{3}{4}-\frac{1}{16}$
6	$8\frac{1}{2}$	20	9	6	$10\frac{1}{8}$	21	$2\frac{1}{8}$	6	$11\frac{3}{4}$	21	$7\frac{1}{8}-\frac{1}{16}$
6	$8\frac{5}{8}$	20	$9\frac{3}{8}$	6	$10\frac{1}{4}$	21	$2\frac{1}{2}$	6	$11\frac{7}{8}$	21	$7\frac{1}{2}-\frac{1}{16}$
6	$8\frac{3}{4}$	20	$9\frac{3}{4}$	6	$10\frac{3}{8}$	21	$2\frac{7}{8}$	7	0	21	8
6	$8\frac{7}{8}$	20	$10\frac{1}{8}$	6	$10\frac{1}{2}$	21	$3\frac{1}{4}$				
6	9	20	$10\frac{1}{2}$	6	$10\frac{5}{8}$	21	$3\frac{5}{8}$				

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}-\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	$9\frac{1}{4}-\frac{1}{16}$	1	$1\frac{7}{8}$	3	$3\frac{1}{4}$	1	$3\frac{3}{4}$	3	$9\frac{1}{8}$
1	$0\frac{1}{8}$	2	$9\frac{3}{4}$	1	2	3	$3\frac{3}{8}$	1	$3\frac{7}{8}$	3	$9\frac{1}{2}-\frac{1}{16}$
1	$0\frac{1}{4}$	2	$10\frac{1}{8}$	1	$2\frac{1}{8}$	3	$4\frac{1}{16}$	1	4	3	$9\frac{7}{8}-\frac{1}{16}$
1	$0\frac{3}{8}$	2	$10\frac{1}{2}-\frac{1}{16}$	1	$2\frac{1}{4}$	3	$4\frac{3}{8}-\frac{1}{16}$	1	$4\frac{1}{8}$	3	$10\frac{1}{4}-\frac{1}{16}$
1	$0\frac{1}{2}$	2	$10\frac{7}{8}-\frac{1}{16}$	1	$2\frac{3}{8}$	3	$4\frac{3}{4}-\frac{1}{16}$	1	$4\frac{1}{4}$	3	$10\frac{5}{8}-\frac{1}{16}$
1	$0\frac{5}{8}$	2	$11\frac{1}{4}-\frac{1}{16}$	1	$2\frac{1}{2}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	$4\frac{3}{8}$	3	$11\frac{1}{16}$
1	$0\frac{3}{4}$	2	$11\frac{3}{8}-\frac{1}{16}$	1	$2\frac{3}{8}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$4\frac{1}{2}$	3	$11\frac{1}{2}$
1	$0\frac{7}{8}$	3	$0\frac{1}{16}$	1	$2\frac{3}{4}$	3	6	1	$4\frac{5}{8}$	3	$11\frac{7}{8}$
1	1	3	$0\frac{1}{2}$	1	$2\frac{7}{8}$	3	$6\frac{3}{8}$	1	$4\frac{3}{4}$	4	$0\frac{1}{4}$
1	$1\frac{1}{8}$	3	$0\frac{7}{8}$	1	3	3	$6\frac{3}{4}-\frac{1}{16}$	1	$4\frac{7}{8}$	4	$0\frac{5}{8}-\frac{1}{16}$
1	$1\frac{1}{4}$	3	$1\frac{1}{4}-\frac{1}{16}$	1	$3\frac{1}{8}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	5	4	$1\frac{1}{16}$
1	$1\frac{3}{8}$	3	$1\frac{3}{8}-\frac{1}{16}$	1	$3\frac{1}{4}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$5\frac{1}{8}$	4	$1\frac{3}{8}-\frac{1}{16}$
1	$1\frac{1}{2}$	3	$2\frac{1}{16}$	1	$3\frac{3}{8}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$5\frac{1}{4}$	4	$1\frac{3}{4}-\frac{1}{16}$
1	$1\frac{5}{8}$	3	$2\frac{3}{8}-\frac{1}{16}$	1	$3\frac{1}{2}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$5\frac{3}{8}$	4	$2\frac{1}{4}$
1	$1\frac{3}{4}$	3	$2\frac{3}{4}-\frac{1}{16}$	1	$3\frac{5}{8}$	3	$8\frac{3}{4}$	1	$5\frac{1}{2}$	4	$2\frac{3}{8}$

# 146 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$5\frac{5}{8}$	4	$3\frac{1}{16}$	1	10	5	$4\frac{3}{4}$	2	$2\frac{3}{8}$	6	$6\frac{1}{2}$
1	$5\frac{3}{4}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$10\frac{1}{8}$	5	$5\frac{1}{8}-\frac{1}{16}$	2	$2\frac{1}{2}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$5\frac{7}{8}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{4}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	$2\frac{5}{8}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	6	4	$4\frac{1}{8}-\frac{1}{16}$	1	$10\frac{3}{8}$	5	$5\frac{5}{8}-\frac{1}{16}$	2	$2\frac{3}{4}$	6	$7\frac{3}{4}$
1	$6\frac{1}{8}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$10\frac{1}{2}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	$2\frac{7}{8}$	6	$8\frac{1}{8}$
1	$6\frac{1}{4}$	4	5	1	$10\frac{5}{8}$	5	$6\frac{3}{4}$	2	3	6	$8\frac{1}{2}$
1	$6\frac{3}{8}$	4	$5\frac{3}{8}$	1	$10\frac{3}{4}$	5	$7\frac{1}{8}$	2	$3\frac{1}{8}$	6	$8\frac{7}{8}$
1	$6\frac{1}{2}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$10\frac{7}{8}$	5	$7\frac{1}{2}$	2	$3\frac{1}{4}$	6	$9\frac{1}{4}$
1	$6\frac{5}{8}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	11	5	$7\frac{7}{8}$	2	$3\frac{3}{8}$	6	$9\frac{5}{8}-\frac{1}{16}$
1	$6\frac{3}{4}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$11\frac{1}{8}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$3\frac{1}{2}$	6	$10\frac{1}{16}$
1	$6\frac{7}{8}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$11\frac{1}{4}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$3\frac{5}{8}$	6	$10\frac{3}{8}-\frac{1}{16}$
1	7	4	$7\frac{1}{4}-\frac{1}{16}$	1	$11\frac{3}{8}$	5	$9\frac{1}{16}$	2	$3\frac{3}{4}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	$7\frac{1}{8}$	4	$7\frac{3}{4}$	1	$11\frac{1}{2}$	5	$9\frac{1}{2}$	2	$3\frac{7}{8}$	6	$11\frac{1}{4}$
1	$7\frac{1}{4}$	4	$8\frac{1}{8}$	1	$11\frac{5}{8}$	5	$9\frac{7}{8}$	2	4	6	$11\frac{5}{8}$
1	$7\frac{3}{8}$	4	$8\frac{1}{2}$	1	$11\frac{3}{4}$	5	$10\frac{1}{4}$	2	$4\frac{1}{8}$	7	0
1	$7\frac{1}{2}$	4	$8\frac{7}{8}-\frac{1}{16}$	1	$11\frac{7}{8}$	5	$10\frac{5}{8}$	2	$4\frac{1}{4}$	7	$0\frac{3}{8}-\frac{1}{16}$
1	$7\frac{5}{8}$	4	$9\frac{1}{4}-\frac{1}{16}$	2	0	5	$11\frac{1}{16}$	2	$4\frac{3}{8}$	7	$0\frac{3}{4}-\frac{1}{16}$
1	$7\frac{3}{4}$	4	$9\frac{5}{8}-\frac{1}{16}$	2	$0\frac{1}{8}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$4\frac{1}{2}$	7	$1\frac{1}{8}-\frac{1}{16}$
1	$7\frac{7}{8}$	4	$10\frac{1}{16}$	2	$0\frac{1}{4}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	$4\frac{5}{8}$	7	$1\frac{1}{2}-\frac{1}{16}$
1	8	4	$10\frac{1}{2}$	2	$0\frac{3}{8}$	6	$0\frac{1}{4}$	2	$4\frac{3}{4}$	7	2
1	$8\frac{1}{8}$	4	$10\frac{7}{8}$	2	$0\frac{1}{2}$	6	$0\frac{5}{8}$	2	$4\frac{7}{8}$	7	$2\frac{3}{8}$
1	$8\frac{1}{4}$	4	$11\frac{1}{4}$	2	$0\frac{5}{8}$	6	1	2	5	7	$2\frac{3}{4}$
1	$8\frac{3}{8}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	$0\frac{3}{4}$	6	$1\frac{3}{8}$	2	$5\frac{1}{8}$	7	$3\frac{1}{8}$
1	$8\frac{1}{2}$	5	$0\frac{1}{16}$	2	$0\frac{7}{8}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	$5\frac{1}{4}$	7	$3\frac{1}{2}-\frac{1}{16}$
1	$8\frac{5}{8}$	5	$0\frac{3}{8}-\frac{1}{16}$	2	1	6	$2\frac{1}{8}-\frac{1}{16}$	2	$5\frac{3}{8}$	7	$3\frac{7}{8}-\frac{1}{16}$
1	$8\frac{3}{4}$	5	$0\frac{3}{4}-\frac{1}{16}$	2	$1\frac{1}{8}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$5\frac{1}{2}$	7	$4\frac{1}{4}-\frac{1}{16}$
1	$8\frac{7}{8}$	5	$1\frac{1}{4}$	2	$1\frac{1}{4}$	6	3	2	$5\frac{5}{8}$	7	$4\frac{3}{4}$
1	9	5	$1\frac{5}{8}$	2	$1\frac{3}{8}$	6	$3\frac{3}{8}$	2	$5\frac{3}{4}$	7	$5\frac{1}{8}$
1	$9\frac{1}{8}$	5	2	2	$1\frac{1}{2}$	6	$3\frac{3}{4}$	2	$5\frac{7}{8}$	7	$5\frac{1}{2}$
1	$9\frac{1}{4}$	5	$2\frac{3}{8}-\frac{1}{16}$	2	$1\frac{5}{8}$	6	$4\frac{1}{8}$	2	6	7	$5\frac{7}{8}$
1	$9\frac{3}{8}$	5	$2\frac{3}{4}-\frac{1}{16}$	2	$1\frac{3}{4}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$6\frac{1}{8}$	7	$6\frac{1}{4}-\frac{1}{16}$
1	$9\frac{1}{2}$	5	$3\frac{1}{8}-\frac{1}{16}$	2	$1\frac{7}{8}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$6\frac{1}{4}$	7	$6\frac{5}{8}-\frac{1}{16}$
1	$9\frac{5}{8}$	5	$3\frac{1}{2}-\frac{1}{16}$	2	2	6	$5\frac{1}{4}-\frac{1}{16}$	2	$6\frac{3}{8}$	7	$7\frac{1}{16}$
1	$9\frac{3}{4}$	5	4	2	$2\frac{1}{8}$	6	$5\frac{3}{4}$	2	$6\frac{1}{2}$	7	$7\frac{3}{8}-\frac{1}{16}$
1	$9\frac{7}{8}$	5	$4\frac{3}{8}$	2	$2\frac{1}{4}$	6	$6\frac{1}{8}$	2	$6\frac{5}{8}$	7	$7\frac{7}{8}$

ANGLE-IRON RINGS (FLANGE INSIDE). 147

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	6 $\frac{3}{4}$	7	8 $\frac{1}{4}$	2	11 $\frac{1}{8}$	8	10	3	3 $\frac{1}{2}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$
2	6 $\frac{7}{8}$	7	8 $\frac{5}{8}$	2	11 $\frac{1}{4}$	8	10 $\frac{3}{8}$	3	3 $\frac{5}{8}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$
2	7	7	9 $\frac{1}{16}$	2	11 $\frac{3}{8}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	3 $\frac{3}{4}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$
2	7 $\frac{1}{8}$	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	2	11 $\frac{1}{2}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	3 $\frac{7}{8}$	10	1
2	7 $\frac{1}{4}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$	2	11 $\frac{5}{8}$	8	11 $\frac{5}{8}$	3	4	10	1 $\frac{3}{8}$
2	7 $\frac{3}{8}$	7	10 $\frac{1}{4}$	2	11 $\frac{3}{4}$	9	0	3	4 $\frac{1}{8}$	10	1 $\frac{3}{4}$
2	7 $\frac{1}{2}$	7	10 $\frac{5}{8}$	2	11 $\frac{7}{8}$	9	0 $\frac{3}{8}$	3	4 $\frac{1}{4}$	10	2 $\frac{1}{8}$
2	7 $\frac{5}{8}$	7	11	3	0	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	4 $\frac{3}{8}$	10	2 $\frac{1}{2}$
2	7 $\frac{3}{4}$	7	11 $\frac{3}{8}$	3	0 $\frac{1}{8}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{1}{2}$	10	2 $\frac{7}{8}$
2	7 $\frac{7}{8}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{1}{4}$	9	1 $\frac{5}{8}$	3	4 $\frac{5}{8}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$
2	8	8	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	0 $\frac{3}{8}$	9	2	3	4 $\frac{3}{4}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$
2	8 $\frac{1}{8}$	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	0 $\frac{1}{2}$	9	2 $\frac{3}{8}$	3	4 $\frac{7}{8}$	10	4 $\frac{1}{8}$
2	8 $\frac{1}{4}$	8	1	3	0 $\frac{5}{8}$	9	2 $\frac{3}{4}$	3	5	10	4 $\frac{1}{2}$
2	8 $\frac{3}{8}$	8	1 $\frac{3}{8}$	3	0 $\frac{3}{4}$	9	3 $\frac{1}{8}$	3	5 $\frac{1}{8}$	10	4 $\frac{7}{8}$
2	8 $\frac{1}{2}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{7}{8}$	9	3 $\frac{1}{2}$	3	5 $\frac{1}{4}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$
2	8 $\frac{5}{8}$	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	3	1	9	3 $\frac{7}{8}$	3	5 $\frac{3}{8}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$
2	8 $\frac{3}{4}$	8	2 $\frac{1}{2}$ - $\frac{1}{16}$	3	1 $\frac{1}{8}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	5 $\frac{1}{2}$	10	6 $\frac{1}{16}$
2	8 $\frac{7}{8}$	8	3	3	1 $\frac{1}{4}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	5 $\frac{5}{8}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$
2	9	8	3 $\frac{3}{8}$	3	1 $\frac{3}{8}$	9	5 $\frac{1}{16}$	3	5 $\frac{3}{4}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$
2	9 $\frac{1}{8}$	8	3 $\frac{3}{4}$	3	1 $\frac{1}{2}$	9	5 $\frac{1}{2}$	3	5 $\frac{7}{8}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$
2	9 $\frac{1}{4}$	8	4 $\frac{1}{8}$	3	1 $\frac{5}{8}$	9	5 $\frac{7}{8}$	3	6	10	7 $\frac{5}{8}$
2	9 $\frac{3}{8}$	8	4 $\frac{1}{2}$	3	1 $\frac{3}{4}$	9	6 $\frac{1}{4}$ - $\frac{1}{16}$	3	6 $\frac{1}{8}$	10	8
2	9 $\frac{1}{2}$	8	4 $\frac{7}{8}$	3	1 $\frac{7}{8}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$	3	6 $\frac{1}{4}$	10	8 $\frac{3}{8}$
2	9 $\frac{5}{8}$	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	2	9	7 $\frac{1}{16}$	3	6 $\frac{3}{8}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$
2	9 $\frac{3}{4}$	8	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	2 $\frac{1}{8}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	6 $\frac{1}{2}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$
2	9 $\frac{7}{8}$	8	6 $\frac{1}{16}$	3	2 $\frac{1}{4}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	6 $\frac{5}{8}$	10	9 $\frac{5}{8}$
2	10	8	6 $\frac{1}{2}$	3	2 $\frac{3}{8}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	6 $\frac{3}{4}$	10	10
2	10 $\frac{1}{8}$	8	6 $\frac{7}{8}$	3	2 $\frac{1}{2}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	6 $\frac{7}{8}$	10	10 $\frac{3}{8}$
2	10 $\frac{1}{4}$	8	7 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{3}{8}$	9	9	3	7	10	10 $\frac{3}{4}$ - $\frac{1}{16}$
2	10 $\frac{3}{8}$	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	3	2 $\frac{3}{4}$	9	9 $\frac{3}{8}$	3	7 $\frac{1}{8}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$
2	10 $\frac{1}{2}$	8	8 $\frac{1}{16}$	3	2 $\frac{7}{8}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{1}{4}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$
2	10 $\frac{5}{8}$	8	8 $\frac{1}{2}$	3	3	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{3}{8}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$
2	10 $\frac{3}{4}$	8	8 $\frac{7}{8}$	3	3 $\frac{1}{8}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	7 $\frac{1}{2}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$
2	10 $\frac{7}{8}$	8	9 $\frac{1}{4}$	3	3 $\frac{1}{4}$	9	11	3	7 $\frac{5}{8}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$
2	11	8	9 $\frac{5}{8}$	3	3 $\frac{3}{8}$	9	11 $\frac{3}{8}$	3	7 $\frac{3}{4}$	11	1 $\frac{1}{16}$

# 148      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$7\frac{7}{8}$	11	$1\frac{1}{2}$	4	$0\frac{1}{4}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	$4\frac{5}{8}$	13	5
3	8	11	$1\frac{7}{8}$	4	$0\frac{3}{8}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$4\frac{3}{4}$	13	$5\frac{3}{8}$
3	$8\frac{1}{8}$	11	$2\frac{1}{4}-\frac{1}{16}$	4	$0\frac{1}{2}$	12	$4\frac{1}{16}$	4	$4\frac{7}{8}$	13	$5\frac{3}{4}-\frac{1}{16}$
3	$8\frac{1}{4}$	11	$2\frac{5}{8}-\frac{1}{16}$	4	$0\frac{5}{8}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	5	13	$6\frac{1}{8}-\frac{1}{16}$
3	$8\frac{3}{8}$	11	$3\frac{1}{16}$	4	$0\frac{3}{4}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	$5\frac{1}{8}$	13	$6\frac{1}{2}-\frac{1}{16}$
3	$8\frac{1}{2}$	11	$3\frac{1}{2}$	4	$0\frac{7}{8}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$5\frac{1}{4}$	13	7
3	$8\frac{5}{8}$	11	$3\frac{7}{8}$	4	1	12	$5\frac{1}{2}-\frac{1}{16}$	4	$5\frac{3}{8}$	13	$7\frac{3}{8}$
3	$8\frac{3}{4}$	11	$4\frac{1}{4}-\frac{1}{16}$	4	$1\frac{1}{8}$	12	6	4	$5\frac{1}{2}$	13	$7\frac{3}{4}$
3	$8\frac{7}{8}$	11	$4\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{4}$	12	$6\frac{3}{8}$	4	$5\frac{5}{8}$	13	$8\frac{1}{8}$
3	9	11	$5\frac{1}{16}$	4	$1\frac{3}{8}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$5\frac{3}{4}$	13	$8\frac{1}{2}$
3	$9\frac{1}{8}$	11	$5\frac{3}{8}-\frac{1}{16}$	4	$1\frac{1}{2}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$5\frac{7}{8}$	13	$8\frac{7}{8}$
3	$9\frac{1}{4}$	11	$5\frac{3}{4}-\frac{1}{16}$	4	$1\frac{5}{8}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	6	13	$9\frac{1}{4}-\frac{1}{16}$
3	$9\frac{3}{8}$	11	$6\frac{1}{8}-\frac{1}{16}$	4	$1\frac{3}{4}$	12	8	4	$6\frac{1}{8}$	13	$9\frac{5}{8}-\frac{1}{16}$
3	$9\frac{1}{2}$	11	$6\frac{1}{2}-\frac{1}{16}$	4	$1\frac{7}{8}$	12	$8\frac{3}{8}$	4	$6\frac{1}{4}$	13	$10\frac{1}{16}$
3	$9\frac{5}{8}$	11	7	4	2	12	$8\frac{3}{4}-\frac{1}{16}$	4	$6\frac{3}{8}$	13	$10\frac{1}{2}$
3	$9\frac{3}{4}$	11	$7\frac{3}{8}$	4	$2\frac{1}{8}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	$6\frac{1}{2}$	13	$10\frac{7}{8}$
3	$9\frac{7}{8}$	11	$7\frac{3}{4}-\frac{1}{16}$	4	$2\frac{1}{4}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	$6\frac{5}{8}$	13	$11\frac{1}{4}-\frac{1}{16}$
3	10	11	$8\frac{1}{8}-\frac{1}{16}$	4	$2\frac{3}{8}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$6\frac{3}{4}$	13	$11\frac{5}{8}-\frac{1}{16}$
3	$10\frac{1}{8}$	11	$8\frac{1}{2}-\frac{1}{16}$	4	$2\frac{1}{2}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$6\frac{7}{8}$	14	$0\frac{1}{16}$
3	$10\frac{1}{4}$	11	9	4	$2\frac{5}{8}$	12	$10\frac{5}{8}-\frac{1}{16}$	4	7	14	$0\frac{1}{2}$
3	$10\frac{3}{8}$	11	$9\frac{3}{8}$	4	$2\frac{3}{4}$	12	$11\frac{1}{16}$	4	$7\frac{1}{8}$	14	$0\frac{1}{8}$
3	$10\frac{1}{2}$	11	$9\frac{3}{4}-\frac{1}{16}$	4	$2\frac{7}{8}$	12	$11\frac{1}{2}$	4	$7\frac{1}{4}$	14	$1\frac{1}{4}$
3	$10\frac{5}{8}$	11	$10\frac{1}{8}-\frac{1}{16}$	4	3	12	$11\frac{7}{8}$	4	$7\frac{3}{8}$	14	$1\frac{5}{8}$
3	$10\frac{3}{4}$	11	$10\frac{1}{2}-\frac{1}{16}$	4	$3\frac{1}{8}$	13	$0\frac{1}{4}-\frac{1}{16}$	4	$7\frac{1}{2}$	14	2
3	$10\frac{7}{8}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	$3\frac{1}{4}$	13	$0\frac{5}{8}-\frac{1}{16}$	4	$7\frac{5}{8}$	14	$2\frac{3}{8}$
3	11	11	$11\frac{1}{4}-\frac{1}{16}$	4	$3\frac{3}{8}$	13	$1\frac{1}{16}$	4	$7\frac{3}{4}$	14	$2\frac{3}{4}-\frac{1}{16}$
3	$11\frac{1}{8}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	$3\frac{1}{2}$	13	$1\frac{1}{2}$	4	$7\frac{7}{8}$	14	$3\frac{1}{8}-\frac{1}{16}$
3	$11\frac{1}{4}$	12	$0\frac{1}{16}$	4	$3\frac{5}{8}$	13	$1\frac{7}{8}$	4	8	14	$3\frac{1}{2}-\frac{1}{16}$
3	$11\frac{3}{8}$	12	$0\frac{1}{2}$	4	$3\frac{3}{4}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	$8\frac{1}{8}$	14	4
3	$11\frac{1}{2}$	12	$0\frac{7}{8}$	4	$3\frac{7}{8}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	$8\frac{1}{4}$	14	$4\frac{3}{8}$
3	$11\frac{5}{8}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	4	13	$3\frac{1}{16}$	4	$8\frac{3}{8}$	14	$4\frac{3}{4}-\frac{1}{16}$
3	$11\frac{3}{4}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	$4\frac{1}{8}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	$8\frac{1}{2}$	14	$5\frac{1}{8}-\frac{1}{16}$
3	$11\frac{7}{8}$	12	$2\frac{1}{16}$	4	$4\frac{1}{4}$	13	$3\frac{3}{4}-\frac{1}{16}$	4	$8\frac{5}{8}$	14	$5\frac{1}{2}-\frac{1}{16}$
4	0	12	$2\frac{1}{2}$	4	$4\frac{3}{8}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$8\frac{3}{4}$	14	6
4	$0\frac{1}{8}$	12	$2\frac{7}{8}$	4	$4\frac{1}{2}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	$8\frac{7}{8}$	14	$6\frac{3}{8}$



ANGLE-IRON RINGS (FLANGE INSIDE). 149

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	9	14	6 $\frac{3}{4}$	5	1 $\frac{3}{8}$	15	8 $\frac{1}{2}$	5	5 $\frac{3}{4}$	16	10 $\frac{1}{4}$
4	9 $\frac{1}{8}$	14	7 $\frac{1}{8}$	5	1 $\frac{1}{2}$	15	8 $\frac{5}{8}$	5	5 $\frac{7}{8}$	16	10 $\frac{3}{8}$
4	9 $\frac{1}{4}$	14	7 $\frac{1}{2}$	5	1 $\frac{5}{8}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$	5	6	16	11
4	9 $\frac{3}{8}$	14	7 $\frac{7}{8}$	5	1 $\frac{3}{4}$	15	9 $\frac{5}{8}$ - $\frac{1}{16}$	5	6 $\frac{1}{8}$	16	11 $\frac{3}{8}$
4	9 $\frac{1}{2}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	1 $\frac{7}{8}$	15	10 $\frac{1}{16}$	5	6 $\frac{1}{4}$	16	11 $\frac{3}{4}$ - $\frac{1}{16}$
4	9 $\frac{5}{8}$	14	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	2	15	10 $\frac{1}{2}$	5	6 $\frac{3}{8}$	17	0 $\frac{1}{8}$ - $\frac{1}{16}$
4	9 $\frac{3}{4}$	14	9 $\frac{1}{8}$	5	2 $\frac{1}{8}$	15	10 $\frac{7}{8}$	5	6 $\frac{1}{2}$	17	0 $\frac{1}{2}$ - $\frac{1}{16}$
4	9 $\frac{7}{8}$	14	9 $\frac{1}{2}$	5	2 $\frac{1}{4}$	15	11 $\frac{1}{4}$	5	6 $\frac{5}{8}$	17	1
4	10	14	9 $\frac{7}{8}$	5	2 $\frac{3}{8}$	15	11 $\frac{5}{8}$	5	6 $\frac{3}{4}$	17	1 $\frac{3}{8}$
4	10 $\frac{1}{8}$	14	10 $\frac{1}{4}$	5	2 $\frac{1}{2}$	16	0	5	6 $\frac{7}{8}$	17	1 $\frac{3}{4}$ - $\frac{1}{16}$
4	10 $\frac{1}{4}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$	5	2 $\frac{5}{8}$	16	0 $\frac{3}{8}$	5	7	17	2 $\frac{1}{8}$ - $\frac{1}{16}$
4	10 $\frac{3}{8}$	14	11 $\frac{1}{8}$	5	2 $\frac{3}{4}$	16	0 $\frac{3}{4}$ - $\frac{1}{16}$	5	7 $\frac{1}{8}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$
4	10 $\frac{1}{2}$	14	11 $\frac{1}{2}$	5	2 $\frac{7}{8}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$	5	7 $\frac{1}{4}$	17	3
4	10 $\frac{5}{8}$	14	11 $\frac{7}{8}$	5	3	16	1 $\frac{1}{2}$ - $\frac{1}{16}$	5	7 $\frac{3}{8}$	17	3 $\frac{3}{8}$
4	10 $\frac{3}{4}$	15	0 $\frac{1}{4}$	5	3 $\frac{1}{8}$	16	2	5	7 $\frac{1}{2}$	17	3 $\frac{3}{4}$
4	10 $\frac{7}{8}$	15	0 $\frac{5}{8}$	5	3 $\frac{1}{4}$	16	2 $\frac{3}{8}$	5	7 $\frac{5}{8}$	17	4 $\frac{1}{8}$
4	11	15	1	5	3 $\frac{3}{8}$	16	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	7 $\frac{3}{4}$	17	4 $\frac{1}{2}$
4	11 $\frac{1}{8}$	15	1 $\frac{3}{8}$	5	3 $\frac{1}{2}$	16	3 $\frac{1}{8}$ - $\frac{1}{16}$	5	7 $\frac{7}{8}$	17	4 $\frac{7}{8}$
4	11 $\frac{1}{4}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	3 $\frac{5}{8}$	16	3 $\frac{1}{2}$ - $\frac{1}{16}$	5	8	17	5 $\frac{1}{4}$
4	11 $\frac{3}{8}$	15	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	3 $\frac{3}{4}$	16	4	5	8 $\frac{1}{8}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$
4	11 $\frac{1}{2}$	15	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	3 $\frac{7}{8}$	16	4 $\frac{3}{8}$	5	8 $\frac{1}{4}$	17	6 $\frac{1}{8}$
4	11 $\frac{5}{8}$	15	3	5	4	16	4 $\frac{3}{4}$	5	8 $\frac{3}{8}$	17	6 $\frac{1}{2}$
4	11 $\frac{3}{4}$	15	3 $\frac{3}{8}$	5	4 $\frac{1}{8}$	16	5 $\frac{1}{8}$	5	8 $\frac{1}{2}$	17	6 $\frac{7}{8}$
4	11 $\frac{7}{8}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$	5	4 $\frac{1}{4}$	16	5 $\frac{1}{2}$	5	8 $\frac{5}{8}$	17	7 $\frac{1}{4}$
5	0	15	4 $\frac{1}{8}$ - $\frac{1}{16}$	5	4 $\frac{3}{8}$	16	5 $\frac{7}{8}$	5	8 $\frac{3}{4}$	17	7 $\frac{5}{8}$ - $\frac{1}{16}$
5	0 $\frac{1}{8}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$	5	4 $\frac{1}{2}$	16	6 $\frac{1}{4}$ - $\frac{1}{16}$	5	8 $\frac{7}{8}$	17	8 $\frac{1}{8}$
5	0 $\frac{1}{4}$	15	5	5	4 $\frac{5}{8}$	16	6 $\frac{5}{8}$ - $\frac{1}{16}$	5	9	17	8 $\frac{1}{2}$
5	0 $\frac{3}{8}$	15	5 $\frac{3}{8}$	5	4 $\frac{3}{4}$	16	7 $\frac{1}{8}$	5	9 $\frac{1}{8}$	17	8 $\frac{7}{8}$
5	0 $\frac{1}{2}$	15	5 $\frac{3}{4}$	5	4 $\frac{7}{8}$	16	7 $\frac{1}{2}$	5	9 $\frac{1}{4}$	17	9 $\frac{1}{4}$
5	0 $\frac{5}{8}$	15	6 $\frac{1}{8}$	5	5	16	7 $\frac{7}{8}$	5	9 $\frac{3}{8}$	17	9 $\frac{5}{8}$
5	0 $\frac{3}{4}$	15	6 $\frac{1}{2}$	5	5 $\frac{1}{8}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	9 $\frac{1}{2}$	17	10
5	0 $\frac{7}{8}$	15	6 $\frac{7}{8}$	5	5 $\frac{1}{4}$	16	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	9 $\frac{5}{8}$	17	10 $\frac{3}{8}$
5	1	15	7 $\frac{1}{4}$ - $\frac{1}{16}$	5	5 $\frac{3}{8}$	16	9 $\frac{1}{8}$	5	9 $\frac{3}{4}$	17	10 $\frac{3}{4}$ - $\frac{1}{16}$
5	1 $\frac{1}{8}$	15	7 $\frac{3}{8}$ - $\frac{1}{16}$	5	5 $\frac{1}{2}$	16	9 $\frac{1}{2}$	5	9 $\frac{7}{8}$	17	11 $\frac{1}{8}$ - $\frac{1}{16}$
5	1 $\frac{1}{4}$	15	8 $\frac{1}{8}$	5	5 $\frac{5}{8}$	16	9 $\frac{7}{8}$	5	10	17	11 $\frac{1}{2}$ - $\frac{1}{16}$

# 150      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	10 $\frac{1}{8}$	18	0	6	2 $\frac{1}{2}$	19	1 $\frac{5}{8}$ - $\frac{1}{16}$	6	6 $\frac{7}{8}$	20	3 $\frac{1}{2}$
5	10 $\frac{1}{4}$	18	0 $\frac{3}{8}$	6	2 $\frac{5}{8}$	19	2 $\frac{1}{8}$	6	7	20	3 $\frac{7}{8}$
5	10 $\frac{3}{8}$	18	0 $\frac{3}{4}$ - $\frac{1}{16}$	6	2 $\frac{3}{4}$	19	2 $\frac{1}{2}$	6	7 $\frac{1}{8}$	20	4 $\frac{1}{4}$ - $\frac{1}{16}$
5	10 $\frac{1}{2}$	18	1 $\frac{1}{8}$ - $\frac{1}{16}$	6	2 $\frac{7}{8}$	19	2 $\frac{7}{8}$	6	7 $\frac{1}{4}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$
5	10 $\frac{5}{8}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$	6	3	19	3 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{3}{8}$	20	5 $\frac{1}{16}$
5	10 $\frac{3}{4}$	18	1 $\frac{7}{8}$ - $\frac{1}{16}$	6	3 $\frac{1}{8}$	19	3 $\frac{5}{8}$ - $\frac{1}{16}$	6	7 $\frac{1}{2}$	20	5 $\frac{3}{8}$ - $\frac{1}{16}$
5	10 $\frac{7}{8}$	18	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	3 $\frac{1}{4}$	19	4 $\frac{1}{8}$	6	7 $\frac{5}{8}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$
5	11	18	2 $\frac{3}{8}$ - $\frac{1}{16}$	6	3 $\frac{3}{8}$	19	4 $\frac{1}{2}$	6	7 $\frac{3}{4}$	20	6 $\frac{1}{8}$ - $\frac{1}{16}$
5	11 $\frac{1}{8}$	18	3 $\frac{1}{8}$	6	3 $\frac{1}{2}$	19	4 $\frac{7}{8}$	6	7 $\frac{7}{8}$	20	6 $\frac{1}{2}$ - $\frac{1}{16}$
5	11 $\frac{1}{4}$	18	3 $\frac{1}{2}$	6	3 $\frac{5}{8}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	8	20	7
5	11 $\frac{3}{8}$	18	3 $\frac{3}{8}$	6	3 $\frac{3}{4}$	19	5 $\frac{5}{8}$ - $\frac{1}{16}$	6	8 $\frac{1}{8}$	20	7 $\frac{3}{8}$
5	11 $\frac{1}{2}$	18	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	3 $\frac{7}{8}$	19	6- $\frac{1}{16}$	6	8 $\frac{1}{4}$	20	7 $\frac{3}{4}$ - $\frac{1}{16}$
5	11 $\frac{5}{8}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	4	19	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	8 $\frac{3}{8}$	20	8 $\frac{1}{8}$ - $\frac{1}{16}$
5	11 $\frac{3}{4}$	18	5 $\frac{1}{8}$	6	4 $\frac{1}{8}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$	6	8 $\frac{1}{2}$	20	8 $\frac{1}{2}$ - $\frac{1}{16}$
5	11 $\frac{7}{8}$	18	5 $\frac{1}{2}$	6	4 $\frac{1}{4}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$	6	8 $\frac{5}{8}$	20	9
6	0	18	5 $\frac{7}{8}$	6	4 $\frac{3}{8}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$	6	8 $\frac{3}{4}$	20	9 $\frac{3}{8}$
6	0 $\frac{1}{8}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$	6	4 $\frac{1}{2}$	19	8	6	8 $\frac{7}{8}$	20	9 $\frac{3}{4}$
6	0 $\frac{1}{4}$	18	6 $\frac{5}{8}$ - $\frac{1}{16}$	6	4 $\frac{5}{8}$	19	8 $\frac{3}{8}$	6	9	20	10 $\frac{1}{8}$
6	0 $\frac{3}{8}$	18	7 $\frac{1}{16}$	6	4 $\frac{3}{4}$	19	8 $\frac{3}{4}$ - $\frac{1}{16}$	6	9 $\frac{1}{8}$	20	10 $\frac{1}{2}$
6	0 $\frac{1}{2}$	18	7 $\frac{3}{8}$ - $\frac{1}{16}$	6	4 $\frac{7}{8}$	19	9 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{1}{4}$	20	10 $\frac{7}{8}$
6	0 $\frac{3}{4}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	5	19	9 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{3}{8}$	20	11 $\frac{1}{4}$ - $\frac{1}{16}$
6	0 $\frac{3}{4}$	18	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{8}$	19	10	6	9 $\frac{1}{2}$	20	11 $\frac{5}{8}$ - $\frac{1}{16}$
6	0 $\frac{7}{8}$	18	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{1}{4}$	19	10 $\frac{3}{8}$	6	9 $\frac{5}{8}$	21	0 $\frac{7}{8}$
6	1	18	9	6	5 $\frac{3}{8}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	9 $\frac{3}{4}$	21	0 $\frac{1}{2}$
6	1 $\frac{1}{8}$	18	9 $\frac{3}{8}$	6	5 $\frac{1}{2}$	19	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{7}{8}$	21	0 $\frac{7}{8}$
6	1 $\frac{1}{4}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{5}{8}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	10	21	1 $\frac{1}{4}$ - $\frac{1}{16}$
6	1 $\frac{3}{8}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{3}{4}$	19	11 $\frac{7}{8}$ - $\frac{1}{16}$	6	10 $\frac{1}{8}$	21	1 $\frac{5}{8}$ - $\frac{1}{16}$
6	1 $\frac{1}{2}$	18	10 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{7}{8}$	20	0 $\frac{1}{4}$ - $\frac{1}{16}$	6	10 $\frac{1}{4}$	21	2 $\frac{1}{8}$
6	1 $\frac{5}{8}$	18	11	6	6	20	0 $\frac{5}{8}$ - $\frac{1}{16}$	6	10 $\frac{3}{8}$	21	2 $\frac{1}{2}$
6	1 $\frac{3}{4}$	18	11 $\frac{3}{8}$	6	6 $\frac{1}{8}$	20	1 $\frac{1}{8}$	6	10 $\frac{1}{2}$	21	2 $\frac{7}{8}$
6	1 $\frac{7}{8}$	18	11 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{1}{4}$	20	1 $\frac{1}{2}$	6	10 $\frac{5}{8}$	21	3 $\frac{1}{4}$
6	2	19	0 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{3}{8}$	20	1 $\frac{7}{8}$	6	10 $\frac{3}{4}$	21	3 $\frac{5}{8}$
6	2 $\frac{1}{8}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{1}{2}$	20	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	10 $\frac{7}{8}$	21	4
6	2 $\frac{1}{4}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$	6	6 $\frac{5}{8}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	11	21	4 $\frac{3}{8}$
6	2 $\frac{3}{8}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	6 $\frac{3}{4}$	20	3 $\frac{1}{8}$	6	11 $\frac{1}{8}$	21	4 $\frac{3}{4}$ - $\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 151

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}-\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	11 $\frac{1}{4}$	21	5 $\frac{1}{8}-\frac{1}{16}$	7	3 $\frac{5}{8}$	22	7	7	8	23	8 $\frac{5}{8}-\frac{1}{16}$
6	11 $\frac{3}{8}$	21	5 $\frac{1}{2}-\frac{1}{16}$	7	3 $\frac{3}{4}$	22	7 $\frac{3}{8}$	7	8 $\frac{1}{8}$	23	9 $\frac{1}{16}$
6	11 $\frac{1}{2}$	21	6	7	3 $\frac{1}{8}$	22	7 $\frac{3}{4}$	7	8 $\frac{1}{4}$	23	9 $\frac{1}{2}$
6	11 $\frac{5}{8}$	21	6 $\frac{3}{8}$	7	4	22	8 $\frac{1}{8}$	7	8 $\frac{3}{8}$	23	9 $\frac{7}{8}$
6	11 $\frac{3}{4}$	21	6 $\frac{3}{4}-\frac{1}{16}$	7	4 $\frac{1}{8}$	22	8 $\frac{1}{2}$	7	8 $\frac{1}{2}$	23	10 $\frac{1}{4}-\frac{1}{16}$
6	11 $\frac{7}{8}$	21	7 $\frac{1}{8}-\frac{1}{16}$	7	4 $\frac{1}{4}$	22	8 $\frac{7}{8}$	7	8 $\frac{5}{8}$	23	10 $\frac{5}{8}-\frac{1}{16}$
7	0	21	7 $\frac{1}{2}-\frac{1}{16}$	7	4 $\frac{3}{8}$	22	9 $\frac{1}{4}-\frac{1}{16}$	7	8 $\frac{3}{4}$	23	11 $\frac{1}{16}$
7	0 $\frac{1}{8}$	21	8	7	4 $\frac{1}{2}$	22	9 $\frac{5}{8}-\frac{1}{16}$	7	8 $\frac{7}{8}$	23	11 $\frac{3}{8}-\frac{1}{16}$
7	0 $\frac{1}{4}$	21	8 $\frac{3}{8}$	7	4 $\frac{5}{8}$	22	10 $\frac{1}{8}$	7	9	23	11 $\frac{3}{4}-\frac{1}{16}$
7	0 $\frac{3}{8}$	21	8 $\frac{3}{4}$	7	4 $\frac{3}{4}$	22	10 $\frac{1}{2}$	7	9 $\frac{1}{8}$	24	0 $\frac{1}{8}-\frac{1}{16}$
7	0 $\frac{1}{2}$	21	9 $\frac{1}{8}$	7	4 $\frac{7}{8}$	22	10 $\frac{7}{8}$	7	9 $\frac{1}{4}$	24	0 $\frac{1}{2}-\frac{1}{16}$
7	0 $\frac{5}{8}$	21	9 $\frac{1}{2}$	7	5	22	11 $\frac{1}{4}-\frac{1}{16}$	7	9 $\frac{3}{8}$	24	1
7	0 $\frac{3}{4}$	21	9 $\frac{7}{8}$	7	5 $\frac{1}{8}$	22	11 $\frac{5}{8}-\frac{1}{16}$	7	9 $\frac{1}{2}$	24	1 $\frac{3}{8}$
7	0 $\frac{7}{8}$	21	10 $\frac{1}{4}-\frac{1}{16}$	7	5 $\frac{1}{4}$	23	0 $\frac{1}{8}$	7	9 $\frac{5}{8}$	24	1 $\frac{3}{4}-\frac{1}{16}$
7	1	21	10 $\frac{5}{8}-\frac{1}{16}$	7	5 $\frac{3}{8}$	23	0 $\frac{1}{2}$	7	9 $\frac{3}{4}$	24	2 $\frac{1}{8}-\frac{1}{16}$
7	1 $\frac{1}{8}$	21	11 $\frac{1}{8}$	7	5 $\frac{1}{2}$	23	0 $\frac{7}{8}$	7	9 $\frac{7}{8}$	24	2 $\frac{1}{2}-\frac{1}{16}$
7	1 $\frac{1}{4}$	21	11 $\frac{1}{2}$	7	5 $\frac{5}{8}$	23	1 $\frac{1}{4}$	7	10	24	3
7	1 $\frac{3}{8}$	21	11 $\frac{7}{8}$	7	5 $\frac{3}{4}$	23	1 $\frac{5}{8}$	7	10 $\frac{1}{8}$	24	3 $\frac{3}{8}$
7	1 $\frac{1}{2}$	22	0 $\frac{1}{4}-\frac{1}{16}$	7	5 $\frac{7}{8}$	23	2	7	10 $\frac{1}{4}$	24	3 $\frac{3}{4}-\frac{1}{16}$
7	1 $\frac{5}{8}$	22	0 $\frac{3}{8}-\frac{1}{16}$	7	6	23	2 $\frac{3}{8}$	7	10 $\frac{3}{8}$	24	4 $\frac{1}{8}-\frac{1}{16}$
7	1 $\frac{3}{4}$	22	1 $\frac{1}{8}$	7	6 $\frac{1}{8}$	23	2 $\frac{3}{4}-\frac{1}{16}$	7	10 $\frac{1}{2}$	24	4 $\frac{1}{2}-\frac{1}{16}$
7	1 $\frac{7}{8}$	22	1 $\frac{1}{2}$	7	6 $\frac{1}{4}$	23	3 $\frac{1}{8}-\frac{1}{16}$	7	10 $\frac{5}{8}$	24	5
7	2	22	1 $\frac{7}{8}$	7	6 $\frac{3}{8}$	23	3 $\frac{1}{2}-\frac{1}{16}$	7	10 $\frac{3}{4}$	24	5 $\frac{3}{8}$
7	2 $\frac{1}{8}$	22	2 $\frac{1}{4}$	7	6 $\frac{1}{2}$	23	4	7	10 $\frac{7}{8}$	24	5 $\frac{3}{4}$
7	2 $\frac{1}{4}$	22	2 $\frac{5}{8}$	7	6 $\frac{5}{8}$	23	4 $\frac{3}{8}$	7	11	24	6 $\frac{1}{8}$
7	2 $\frac{3}{8}$	22	3	7	6 $\frac{3}{4}$	23	4 $\frac{3}{4}-\frac{1}{16}$	7	11 $\frac{1}{8}$	24	6 $\frac{1}{2}$
7	2 $\frac{1}{2}$	22	3 $\frac{3}{8}$	7	6 $\frac{7}{8}$	23	5 $\frac{1}{8}-\frac{1}{16}$	7	11 $\frac{1}{4}$	24	6 $\frac{7}{8}$
7	2 $\frac{5}{8}$	22	3 $\frac{3}{4}-\frac{1}{16}$	7	7	23	5 $\frac{1}{2}-\frac{1}{16}$	7	11 $\frac{3}{8}$	24	7 $\frac{1}{4}-\frac{1}{16}$
7	2 $\frac{3}{4}$	22	4 $\frac{1}{8}-\frac{1}{16}$	7	7 $\frac{1}{8}$	23	6	7	11 $\frac{1}{2}$	24	7 $\frac{5}{8}-\frac{1}{16}$
7	2 $\frac{7}{8}$	22	4 $\frac{1}{2}-\frac{1}{16}$	7	7 $\frac{1}{4}$	23	6 $\frac{3}{8}$	7	11 $\frac{5}{8}$	24	8 $\frac{1}{8}$
7	3	22	5	7	7 $\frac{3}{8}$	23	6 $\frac{3}{4}$	7	11 $\frac{3}{4}$	24	8 $\frac{1}{2}$
7	3 $\frac{1}{8}$	22	5 $\frac{3}{8}$	7	7 $\frac{1}{2}$	23	7 $\frac{1}{8}$	7	11 $\frac{7}{8}$	24	8 $\frac{7}{8}$
7	3 $\frac{1}{4}$	22	5 $\frac{3}{4}-\frac{1}{16}$	7	7 $\frac{5}{8}$	23	7 $\frac{1}{2}$	8	0	24	9 $\frac{1}{4}-\frac{1}{16}$
7	3 $\frac{3}{8}$	22	6 $\frac{1}{8}-\frac{1}{16}$	7	7 $\frac{3}{4}$	23	7 $\frac{7}{8}$	8	0 $\frac{1}{8}$	24	9 $\frac{5}{8}-\frac{1}{16}$
7	3 $\frac{1}{2}$	22	6 $\frac{1}{2}-\frac{1}{16}$	7	7 $\frac{7}{8}$	23	8 $\frac{1}{4}-\frac{1}{16}$	8	0 $\frac{1}{4}$	24	10 $\frac{1}{16}$

# 152      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{5}{8}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$0\frac{3}{8}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	$4\frac{3}{8}$	25	11	8	$8\frac{3}{8}$	26	$11\frac{1}{2}-\frac{1}{16}$
8	$0\frac{1}{2}$	24	$10\frac{3}{4}-\frac{1}{16}$	8	$4\frac{1}{2}$	25	$11\frac{3}{8}$	8	$8\frac{1}{2}$	26	$11\frac{7}{8}-\frac{1}{16}$
8	$0\frac{5}{8}$	24	$11\frac{1}{8}-\frac{1}{16}$	8	$4\frac{5}{8}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$8\frac{5}{8}$	27	$0\frac{1}{4}-\frac{1}{16}$
8	$0\frac{3}{4}$	24	$11\frac{1}{2}-\frac{1}{16}$	8	$4\frac{3}{4}$	26	$0\frac{1}{8}-\frac{1}{16}$	8	$8\frac{3}{4}$	27	$0\frac{5}{8}-\frac{1}{16}$
8	$0\frac{7}{8}$	25	0	8	$4\frac{7}{8}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	$8\frac{7}{8}$	27	$1\frac{1}{16}$
8	1	25	$0\frac{3}{8}$	8	5	26	1	8	9	27	$1\frac{1}{2}$
8	$1\frac{1}{8}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	$5\frac{1}{8}$	26	$1\frac{3}{8}$	8	$9\frac{1}{8}$	27	$1\frac{7}{8}-\frac{1}{16}$
8	$1\frac{1}{4}$	25	$1\frac{1}{8}-\frac{1}{16}$	8	$5\frac{1}{4}$	26	$1\frac{3}{4}-\frac{1}{16}$	8	$9\frac{1}{4}$	27	$2\frac{1}{4}-\frac{1}{16}$
8	$1\frac{3}{8}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$5\frac{3}{8}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$9\frac{3}{8}$	27	$2\frac{5}{8}-\frac{1}{16}$
8	$1\frac{1}{2}$	25	2	8	$5\frac{1}{2}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	$9\frac{1}{2}$	27	$3\frac{1}{16}$
8	$1\frac{5}{8}$	25	$2\frac{3}{8}$	8	$5\frac{5}{8}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$9\frac{5}{8}$	27	$3\frac{1}{2}$
8	$1\frac{3}{4}$	25	$2\frac{3}{4}-\frac{1}{16}$	8	$5\frac{3}{4}$	26	$3\frac{1}{4}-\frac{1}{16}$	8	$9\frac{3}{4}$	27	$3\frac{7}{8}$
8	$1\frac{7}{8}$	25	$3\frac{1}{8}-\frac{1}{16}$	8	$5\frac{7}{8}$	26	$3\frac{5}{8}-\frac{1}{16}$	8	$9\frac{7}{8}$	27	$4\frac{1}{4}$
8	2	25	$3\frac{1}{2}-\frac{1}{16}$	8	6	26	$4\frac{1}{8}$	8	10	27	$4\frac{5}{8}-\frac{1}{16}$
8	$2\frac{1}{8}$	25	$3\frac{7}{8}-\frac{1}{16}$	8	$6\frac{1}{8}$	26	$4\frac{1}{2}$	8	$10\frac{1}{8}$	27	$5\frac{1}{16}$
8	$2\frac{1}{4}$	25	$4\frac{1}{4}-\frac{1}{16}$	8	$6\frac{1}{4}$	26	$4\frac{7}{8}$	8	$10\frac{1}{4}$	27	$5\frac{3}{8}-\frac{1}{16}$
8	$2\frac{3}{8}$	25	$4\frac{5}{8}-\frac{1}{16}$	8	$6\frac{3}{8}$	26	$5\frac{1}{4}-\frac{1}{16}$	8	$10\frac{3}{8}$	27	$5\frac{3}{4}-\frac{1}{16}$
8	$2\frac{1}{2}$	25	$5\frac{1}{8}$	8	$6\frac{1}{2}$	26	$5\frac{5}{8}-\frac{1}{16}$	8	$10\frac{1}{2}$	27	$6\frac{1}{4}$
8	$2\frac{5}{8}$	25	$5\frac{1}{2}$	8	$6\frac{5}{8}$	26	$6\frac{1}{16}$	8	$10\frac{5}{8}$	27	$6\frac{5}{8}$
8	$2\frac{3}{4}$	25	$5\frac{7}{8}$	8	$6\frac{3}{4}$	26	$6\frac{3}{8}-\frac{1}{16}$	8	$10\frac{3}{4}$	27	7
8	$2\frac{7}{8}$	25	$6\frac{1}{4}-\frac{1}{16}$	8	$6\frac{7}{8}$	26	$6\frac{3}{4}-\frac{1}{16}$	8	$10\frac{7}{8}$	27	$7\frac{3}{8}-\frac{1}{16}$
8	3	25	$6\frac{5}{8}-\frac{1}{16}$	8	7	26	$7\frac{1}{4}$	8	11	27	$7\frac{3}{4}-\frac{1}{16}$
8	$3\frac{1}{8}$	25	$7\frac{1}{8}$	8	$7\frac{1}{8}$	26	$7\frac{3}{8}$	8	$11\frac{1}{8}$	27	$8\frac{1}{8}-\frac{1}{16}$
8	$3\frac{1}{4}$	25	$7\frac{1}{2}$	8	$7\frac{1}{4}$	26	8	8	$11\frac{1}{4}$	27	$8\frac{1}{2}-\frac{1}{16}$
8	$3\frac{3}{8}$	25	$7\frac{7}{8}$	8	$7\frac{3}{8}$	26	$8\frac{3}{8}-\frac{1}{16}$	8	$11\frac{3}{8}$	27	9
8	$3\frac{1}{2}$	25	$8\frac{1}{4}-\frac{1}{16}$	8	$7\frac{1}{2}$	26	$8\frac{3}{4}-\frac{1}{16}$	8	$11\frac{1}{2}$	27	$9\frac{3}{8}$
8	$3\frac{5}{8}$	25	$8\frac{5}{8}-\frac{1}{16}$	8	$7\frac{5}{8}$	26	$9\frac{1}{8}-\frac{1}{16}$	8	$11\frac{5}{8}$	27	$9\frac{3}{4}$
8	$3\frac{3}{4}$	25	$9\frac{1}{16}$	8	$7\frac{3}{4}$	26	$9\frac{1}{2}-\frac{1}{16}$	8	$11\frac{3}{4}$	27	$10\frac{1}{8}$
8	$3\frac{7}{8}$	25	$9\frac{3}{8}-\frac{1}{16}$	8	$7\frac{7}{8}$	26	10	8	$11\frac{7}{8}$	27	$10\frac{1}{2}$
8	4	25	$9\frac{3}{4}-\frac{1}{16}$	8	8	26	$10\frac{3}{8}$	9	0	27	$10\frac{7}{8}-\frac{1}{16}$
8	$4\frac{1}{8}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	$8\frac{1}{8}$	26	$10\frac{3}{4}$				
8	$4\frac{1}{4}$	25	$10\frac{1}{2}-\frac{1}{16}$	8	$8\frac{1}{4}$	26	$11\frac{1}{8}-\frac{1}{16}$				

ANGLE-IRON RINGS (FLANGE INSIDE). 153

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	$8\frac{7}{8}-\frac{1}{16}$	1	$4\frac{3}{8}$	3	$10\frac{3}{8}-\frac{1}{16}$	1	$8\frac{3}{4}$	5	$0\frac{3}{8}-\frac{1}{16}$
1	$0\frac{1}{8}$	2	$9\frac{1}{4}-\frac{1}{16}$	1	$4\frac{1}{2}$	3	$11\frac{1}{16}$	1	$8\frac{7}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$
1	$0\frac{1}{4}$	2	$9\frac{3}{4}$	1	$4\frac{5}{8}$	3	$11\frac{1}{2}$	1	9	5	$1\frac{1}{4}$
1	$0\frac{3}{8}$	2	$10\frac{1}{8}$	1	$4\frac{3}{4}$	3	$11\frac{7}{8}$	1	$9\frac{1}{8}$	5	$1\frac{5}{8}$
1	$0\frac{1}{2}$	2	$10\frac{1}{2}-\frac{1}{16}$	1	$4\frac{7}{8}$	4	$0\frac{1}{4}$	1	$9\frac{1}{4}$	5	2
1	$0\frac{5}{8}$	2	$10\frac{7}{8}-\frac{1}{16}$	1	5	4	$0\frac{3}{8}-\frac{1}{16}$	1	$9\frac{3}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$
1	$0\frac{3}{4}$	2	$11\frac{1}{4}-\frac{1}{16}$	1	$5\frac{1}{8}$	4	$1\frac{1}{16}$	1	$9\frac{1}{2}$	5	$2\frac{3}{4}-\frac{1}{16}$
1	$0\frac{7}{8}$	2	$11\frac{5}{8}-\frac{1}{16}$	1	$5\frac{1}{4}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$9\frac{5}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$
1	1	3	$0\frac{1}{16}$	1	$5\frac{3}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$9\frac{3}{4}$	5	$3\frac{1}{2}-\frac{1}{16}$
1	$1\frac{1}{8}$	3	$0\frac{1}{2}$	1	$5\frac{1}{2}$	4	$2\frac{1}{4}$	1	$9\frac{7}{8}$	5	4
1	$1\frac{1}{4}$	3	$0\frac{7}{8}$	1	$5\frac{3}{8}$	4	$2\frac{3}{8}$	1	10	5	$4\frac{3}{8}$
1	$1\frac{3}{8}$	3	$1\frac{1}{4}-\frac{1}{16}$	1	$5\frac{3}{4}$	4	$3\frac{1}{16}$	1	$10\frac{1}{8}$	5	$4\frac{3}{4}$
1	$1\frac{1}{2}$	3	$1\frac{5}{8}-\frac{1}{16}$	1	$5\frac{7}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$10\frac{1}{4}$	5	$5\frac{1}{8}-\frac{1}{16}$
1	$1\frac{5}{8}$	3	$2\frac{1}{16}$	1	6	4	$3\frac{3}{4}-\frac{1}{16}$	1	$10\frac{3}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$
1	$1\frac{3}{4}$	3	$2\frac{3}{8}-\frac{1}{16}$	1	$6\frac{1}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$10\frac{1}{2}$	5	$5\frac{7}{8}-\frac{1}{16}$
1	$1\frac{7}{8}$	3	$2\frac{3}{4}-\frac{1}{16}$	1	$6\frac{1}{4}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$10\frac{3}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$
1	2	3	$3\frac{1}{4}$	1	$6\frac{3}{8}$	4	5	1	$10\frac{3}{4}$	5	$6\frac{3}{4}$
1	$2\frac{1}{8}$	3	$3\frac{5}{8}$	1	$6\frac{1}{2}$	4	$5\frac{3}{8}$	1	$10\frac{7}{8}$	5	$7\frac{1}{8}$
1	$2\frac{1}{4}$	3	$4\frac{1}{16}$	1	$6\frac{5}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	11	5	$7\frac{1}{2}$
1	$2\frac{3}{8}$	3	$4\frac{3}{8}-\frac{1}{16}$	1	$6\frac{3}{4}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{8}$	5	$7\frac{7}{8}$
1	$2\frac{1}{2}$	3	$4\frac{3}{4}-\frac{1}{16}$	1	$6\frac{7}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$11\frac{1}{4}$	5	$8\frac{1}{4}-\frac{1}{16}$
1	$2\frac{5}{8}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	7	4	$6\frac{7}{8}-\frac{1}{16}$	1	$11\frac{3}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$
1	$2\frac{3}{4}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$7\frac{1}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$11\frac{1}{2}$	5	$9\frac{1}{16}$
1	$2\frac{7}{8}$	3	6	1	$7\frac{1}{4}$	4	$7\frac{3}{4}$	1	$11\frac{5}{8}$	5	$9\frac{1}{2}$
1	3	3	$6\frac{3}{8}$	1	$7\frac{3}{8}$	4	$8\frac{1}{8}$	1	$11\frac{3}{4}$	5	$9\frac{7}{8}$
1	$3\frac{1}{8}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	$7\frac{1}{2}$	4	$8\frac{1}{2}$	1	$11\frac{7}{8}$	5	$10\frac{1}{4}$
1	$3\frac{1}{4}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	$7\frac{5}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	2	0	5	$10\frac{5}{8}$
1	$3\frac{3}{8}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$7\frac{3}{4}$	4	$9\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{8}$	5	$11\frac{1}{16}$
1	$3\frac{1}{2}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$7\frac{7}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	2	$0\frac{1}{4}$	5	$11\frac{3}{8}-\frac{1}{16}$
1	$3\frac{5}{8}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	8	4	$10\frac{1}{16}$	2	$0\frac{3}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$3\frac{3}{4}$	3	$8\frac{3}{4}$	1	$8\frac{1}{8}$	4	$10\frac{1}{2}$	2	$0\frac{1}{2}$	6	$0\frac{1}{4}$
1	$3\frac{7}{8}$	3	$9\frac{1}{8}$	1	$8\frac{1}{4}$	4	$10\frac{7}{8}$	2	$0\frac{5}{8}$	6	$0\frac{3}{8}$
1	4	3	$9\frac{1}{2}-\frac{1}{16}$	1	$8\frac{3}{8}$	4	$11\frac{1}{4}$	2	$0\frac{3}{4}$	6	1
1	$4\frac{1}{8}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$8\frac{1}{2}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	$0\frac{7}{8}$	6	$1\frac{3}{8}$
1	$4\frac{1}{4}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$8\frac{5}{8}$	5	$0\frac{1}{16}$	2	1	6	$1\frac{3}{4}-\frac{1}{16}$

# 154 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	$1\frac{1}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	$5\frac{1}{2}$	7	$3\frac{7}{8}-\frac{1}{16}$	2	$9\frac{7}{8}$	8	$5\frac{5}{8}-\frac{1}{16}$
2	$1\frac{1}{4}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$5\frac{5}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$	2	10	8	$6\frac{1}{16}$
2	$1\frac{3}{8}$	6	3	2	$5\frac{3}{4}$	7	$4\frac{3}{4}$	2	$10\frac{1}{8}$	8	$6\frac{1}{2}$
2	$1\frac{1}{2}$	6	$3\frac{3}{8}$	2	$5\frac{7}{8}$	7	$5\frac{1}{8}$	2	$10\frac{1}{4}$	8	$6\frac{3}{8}$
2	$1\frac{5}{8}$	6	$3\frac{3}{4}$	2	6	7	$5\frac{1}{2}$	2	$10\frac{3}{8}$	8	$7\frac{1}{4}-\frac{1}{16}$
2	$1\frac{3}{4}$	6	$4\frac{1}{8}$	2	$6\frac{1}{8}$	7	$5\frac{7}{8}$	2	$10\frac{1}{2}$	8	$7\frac{5}{8}-\frac{1}{16}$
2	$1\frac{7}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$6\frac{1}{4}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	$10\frac{5}{8}$	8	$8\frac{1}{16}$
2	2	6	$4\frac{7}{8}-\frac{1}{16}$	2	$6\frac{3}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$	2	$10\frac{3}{4}$	8	$8\frac{1}{2}$
2	$2\frac{1}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$	2	$6\frac{1}{2}$	7	$7\frac{1}{16}$	2	$10\frac{7}{8}$	8	$8\frac{3}{8}$
2	$2\frac{1}{4}$	6	$5\frac{3}{4}$	2	$6\frac{5}{8}$	7	$7\frac{3}{8}-\frac{1}{16}$	2	11	8	$9\frac{1}{4}$
2	$2\frac{3}{8}$	6	$6\frac{1}{8}$	2	$6\frac{3}{4}$	7	$7\frac{7}{8}$	2	$11\frac{1}{8}$	8	$9\frac{5}{8}$
2	$2\frac{1}{2}$	6	$6\frac{1}{2}$	2	$6\frac{7}{8}$	7	$8\frac{1}{4}$	2	$11\frac{1}{4}$	8	10
2	$2\frac{5}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	7	7	$8\frac{5}{8}$	2	$11\frac{3}{8}$	8	$10\frac{3}{8}$
2	$2\frac{3}{4}$	6	$7\frac{1}{4}-\frac{1}{16}$	2	$7\frac{1}{8}$	7	$9\frac{1}{16}$	2	$11\frac{1}{2}$	8	$10\frac{3}{4}-\frac{1}{16}$
2	$2\frac{7}{8}$	6	$7\frac{3}{4}$	2	$7\frac{1}{4}$	7	$9\frac{3}{8}-\frac{1}{16}$	2	$11\frac{5}{8}$	8	$11\frac{1}{8}-\frac{1}{16}$
2	3	6	$8\frac{1}{8}$	2	$7\frac{3}{8}$	7	$9\frac{3}{4}-\frac{1}{16}$	2	$11\frac{3}{4}$	8	$11\frac{3}{8}$
2	$3\frac{1}{8}$	6	$8\frac{1}{2}$	2	$7\frac{1}{2}$	7	$10\frac{1}{4}$	2	$11\frac{7}{8}$	9	0
2	$3\frac{1}{4}$	6	$8\frac{7}{8}$	2	$7\frac{5}{8}$	7	$10\frac{5}{8}$	3	0	9	$0\frac{3}{8}$
2	$3\frac{3}{8}$	6	$9\frac{1}{4}$	2	$7\frac{3}{4}$	7	11	3	$0\frac{1}{8}$	9	$0\frac{3}{4}-\frac{1}{16}$
2	$3\frac{1}{2}$	6	$9\frac{5}{8}-\frac{1}{16}$	2	$7\frac{7}{8}$	7	$11\frac{3}{8}$	3	$0\frac{1}{4}$	9	$1\frac{1}{8}-\frac{1}{16}$
2	$3\frac{5}{8}$	6	$10\frac{1}{16}$	2	8	7	$11\frac{3}{4}-\frac{1}{16}$	3	$0\frac{3}{8}$	9	$1\frac{5}{8}$
2	$3\frac{3}{4}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	$8\frac{1}{8}$	8	$0\frac{1}{8}-\frac{1}{16}$	3	$0\frac{1}{2}$	9	2
2	$3\frac{7}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$	2	$8\frac{1}{4}$	8	$0\frac{1}{2}-\frac{1}{16}$	3	$0\frac{5}{8}$	9	$2\frac{3}{8}$
2	4	6	$11\frac{1}{4}$	2	$8\frac{3}{8}$	8	1	3	$0\frac{3}{4}$	9	$2\frac{3}{4}$
2	$4\frac{1}{8}$	6	$11\frac{5}{8}$	2	$8\frac{1}{2}$	8	$1\frac{3}{8}$	3	$0\frac{7}{8}$	9	$3\frac{1}{8}$
2	$4\frac{1}{4}$	7	0	2	$8\frac{5}{8}$	8	$1\frac{3}{4}-\frac{1}{16}$	3	1	9	$3\frac{1}{2}$
2	$4\frac{3}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$8\frac{3}{4}$	8	$2\frac{1}{8}-\frac{1}{16}$	3	$1\frac{1}{8}$	9	$3\frac{7}{8}$
2	$4\frac{1}{2}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	$8\frac{7}{8}$	8	$2\frac{1}{2}-\frac{1}{16}$	3	$1\frac{1}{4}$	9	$4\frac{1}{4}-\frac{1}{16}$
2	$4\frac{5}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$	2	9	8	3	3	$1\frac{3}{8}$	9	$4\frac{5}{8}-\frac{1}{16}$
2	$4\frac{3}{4}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	$9\frac{1}{8}$	8	$3\frac{3}{8}$	3	$1\frac{1}{2}$	9	$5\frac{1}{16}$
2	$4\frac{7}{8}$	7	2	2	$9\frac{1}{4}$	8	$3\frac{3}{4}$	3	$1\frac{5}{8}$	9	$5\frac{1}{2}$
2	5	7	$2\frac{3}{8}$	2	$9\frac{3}{8}$	8	$4\frac{1}{8}$	3	$1\frac{3}{4}$	9	$5\frac{7}{8}$
2	$5\frac{1}{8}$	7	$2\frac{3}{4}$	2	$9\frac{1}{2}$	8	$4\frac{1}{2}$	3	$1\frac{7}{8}$	9	$6\frac{1}{4}-\frac{1}{16}$
2	$5\frac{1}{4}$	7	$3\frac{1}{8}$	2	$9\frac{5}{8}$	8	$4\frac{7}{8}$	3	2	9	$6\frac{5}{8}-\frac{1}{16}$
2	$5\frac{3}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$9\frac{3}{4}$	8	$5\frac{1}{4}-\frac{1}{16}$	3	$2\frac{1}{8}$	9	$7\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 155

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	2 $\frac{1}{4}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	6 $\frac{5}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	11	11	10 $\frac{7}{8}$ - $\frac{1}{16}$
3	2 $\frac{3}{8}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	6 $\frac{3}{4}$	10	9 $\frac{5}{8}$	3	11 $\frac{1}{8}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$
3	2 $\frac{1}{2}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	6 $\frac{7}{8}$	10	10	3	11 $\frac{1}{4}$	11	11 $\frac{5}{8}$ - $\frac{1}{16}$
3	2 $\frac{5}{8}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	7	10	10 $\frac{3}{8}$	3	11 $\frac{3}{8}$	12	0 $\frac{1}{16}$
3	2 $\frac{3}{4}$	9	9	3	7 $\frac{1}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	11 $\frac{1}{2}$	12	0 $\frac{1}{2}$
3	2 $\frac{7}{8}$	9	9 $\frac{3}{8}$	3	7 $\frac{1}{4}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	11 $\frac{5}{8}$	12	0 $\frac{7}{8}$
3	3	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{3}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$	3	11 $\frac{3}{4}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$
3	3 $\frac{1}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{2}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$	3	11 $\frac{7}{8}$	12	1 $\frac{5}{8}$ - $\frac{1}{16}$
3	3 $\frac{1}{4}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	7 $\frac{5}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$	4	0	12	2 $\frac{1}{16}$
3	3 $\frac{3}{8}$	9	11	3	7 $\frac{3}{4}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{1}{8}$	12	2 $\frac{1}{2}$
3	3 $\frac{1}{2}$	9	11 $\frac{3}{8}$	3	7 $\frac{7}{8}$	11	1 $\frac{1}{16}$	4	0 $\frac{1}{4}$	12	2 $\frac{7}{8}$
3	3 $\frac{5}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	8	11	1 $\frac{1}{2}$	4	0 $\frac{3}{8}$	12	3 $\frac{1}{4}$ - $\frac{1}{16}$
3	3 $\frac{3}{4}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{1}{8}$	11	1 $\frac{7}{8}$	4	0 $\frac{1}{2}$	12	3 $\frac{5}{8}$ - $\frac{1}{16}$
3	3 $\frac{7}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	8 $\frac{1}{4}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$	4	0 $\frac{5}{8}$	12	4 $\frac{1}{16}$
3	4	10	1	3	8 $\frac{3}{8}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{3}{4}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$
3	4 $\frac{1}{8}$	10	1 $\frac{3}{8}$	3	8 $\frac{1}{2}$	11	3 $\frac{1}{16}$	4	0 $\frac{7}{8}$	12	4 $\frac{3}{4}$ - $\frac{1}{16}$
3	4 $\frac{1}{4}$	10	1 $\frac{3}{4}$	3	8 $\frac{5}{8}$	11	3 $\frac{1}{2}$	4	1	12	5 $\frac{1}{8}$ - $\frac{1}{16}$
3	4 $\frac{3}{8}$	10	2 $\frac{1}{8}$	3	8 $\frac{3}{4}$	11	3 $\frac{7}{8}$	4	1 $\frac{1}{8}$	12	5 $\frac{1}{2}$ - $\frac{1}{16}$
3	4 $\frac{1}{2}$	10	2 $\frac{1}{2}$	3	8 $\frac{7}{8}$	11	4 $\frac{1}{4}$ - $\frac{1}{16}$	4	1 $\frac{1}{4}$	12	6
3	4 $\frac{5}{8}$	10	2 $\frac{7}{8}$	3	9	11	4 $\frac{5}{8}$ - $\frac{1}{16}$	4	1 $\frac{3}{8}$	12	6 $\frac{3}{8}$
3	4 $\frac{3}{4}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{1}{8}$	11	5 $\frac{1}{16}$	4	1 $\frac{1}{2}$	12	6 $\frac{3}{4}$ - $\frac{1}{16}$
3	4 $\frac{7}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{1}{4}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$	4	1 $\frac{5}{8}$	12	7 $\frac{1}{8}$ - $\frac{1}{16}$
3	5	10	4 $\frac{1}{8}$	3	9 $\frac{3}{8}$	11	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	1 $\frac{3}{4}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$
3	5 $\frac{1}{8}$	10	4 $\frac{1}{2}$	3	9 $\frac{1}{2}$	11	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	1 $\frac{7}{8}$	12	8
3	5 $\frac{1}{4}$	10	4 $\frac{7}{8}$	3	9 $\frac{5}{8}$	11	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	2	12	8 $\frac{3}{8}$
3	5 $\frac{3}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	9 $\frac{3}{4}$	11	7	4	2 $\frac{1}{8}$	12	8 $\frac{3}{4}$ - $\frac{1}{16}$
3	5 $\frac{1}{2}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{7}{8}$	11	7 $\frac{3}{8}$	4	2 $\frac{1}{4}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$
3	5 $\frac{5}{8}$	10	6 $\frac{1}{16}$	3	10	11	7 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{3}{8}$	12	9 $\frac{1}{2}$ - $\frac{1}{16}$
3	5 $\frac{3}{4}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	10 $\frac{1}{8}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{1}{2}$	12	9 $\frac{7}{8}$ - $\frac{1}{16}$
3	5 $\frac{7}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	10 $\frac{1}{4}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$	4	2 $\frac{5}{8}$	12	10 $\frac{1}{4}$ - $\frac{1}{16}$
3	6	10	7 $\frac{1}{8}$ - $\frac{1}{16}$	3	10 $\frac{3}{8}$	11	9	4	2 $\frac{3}{4}$	12	10 $\frac{5}{8}$ - $\frac{1}{16}$
3	6 $\frac{1}{8}$	10	7 $\frac{5}{8}$	3	10 $\frac{1}{2}$	11	9 $\frac{3}{8}$	4	2 $\frac{7}{8}$	12	11 $\frac{1}{16}$
3	6 $\frac{1}{4}$	10	8	3	10 $\frac{5}{8}$	11	9 $\frac{3}{4}$ - $\frac{1}{16}$	4	3	12	11 $\frac{1}{2}$
3	6 $\frac{3}{8}$	10	8 $\frac{3}{8}$	3	10 $\frac{3}{4}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$	4	3 $\frac{1}{8}$	12	11 $\frac{7}{8}$
3	6 $\frac{1}{2}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$	3	10 $\frac{7}{8}$	11	10 $\frac{1}{2}$ - $\frac{1}{16}$	4	3 $\frac{1}{4}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$

# 156      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	$3\frac{3}{8}$	13	$0\frac{5}{8}-\frac{1}{16}$	4	$7\frac{3}{4}$	14	$2\frac{3}{8}$	5	$0\frac{1}{8}$	15	$4\frac{1}{8}-\frac{1}{16}$
4	$3\frac{1}{2}$	13	$1\frac{1}{16}$	4	$7\frac{7}{8}$	14	$2\frac{3}{4}-\frac{1}{16}$	5	$0\frac{1}{4}$	15	$4\frac{1}{2}-\frac{1}{16}$
4	$3\frac{5}{8}$	13	$1\frac{1}{2}$	4	8	14	$3\frac{1}{8}-\frac{1}{16}$	5	$0\frac{3}{8}$	15	5
4	$3\frac{3}{4}$	13	$1\frac{7}{8}$	4	$8\frac{1}{8}$	14	$3\frac{1}{2}-\frac{1}{16}$	5	$0\frac{1}{2}$	15	$5\frac{3}{8}$
4	$3\frac{7}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	$8\frac{1}{4}$	14	4	5	$0\frac{5}{8}$	15	$5\frac{3}{4}$
4	4	13	$2\frac{5}{8}-\frac{1}{16}$	4	$8\frac{3}{8}$	14	$4\frac{3}{8}$	5	$0\frac{3}{4}$	15	$6\frac{1}{8}$
4	$4\frac{1}{8}$	13	$3\frac{1}{16}$	4	$8\frac{1}{2}$	14	$4\frac{3}{4}-\frac{1}{16}$	5	$0\frac{7}{8}$	15	$6\frac{1}{2}$
4	$4\frac{1}{4}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	$8\frac{5}{8}$	14	$5\frac{1}{8}-\frac{1}{16}$	5	1	15	$6\frac{7}{8}$
4	$4\frac{3}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$	4	$8\frac{3}{4}$	14	$5\frac{1}{2}-\frac{1}{16}$	5	$1\frac{1}{8}$	15	$7\frac{1}{4}-\frac{1}{16}$
4	$4\frac{1}{2}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$8\frac{7}{8}$	14	6	5	$1\frac{1}{4}$	15	$7\frac{5}{8}-\frac{1}{16}$
4	$4\frac{5}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	9	14	$6\frac{3}{8}$	5	$1\frac{3}{8}$	15	$8\frac{1}{8}$
4	$4\frac{3}{4}$	13	5	4	$9\frac{1}{8}$	14	$6\frac{3}{4}$	5	$1\frac{1}{2}$	15	$8\frac{1}{2}$
4	$4\frac{7}{8}$	13	$5\frac{3}{8}$	4	$9\frac{1}{4}$	14	$7\frac{1}{8}$	5	$1\frac{5}{8}$	15	$8\frac{7}{8}$
4	5	13	$5\frac{3}{4}-\frac{1}{16}$	4	$9\frac{3}{8}$	14	$7\frac{1}{2}$	5	$1\frac{3}{4}$	15	$9\frac{1}{4}-\frac{1}{16}$
4	$5\frac{1}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$	4	$9\frac{1}{2}$	14	$7\frac{7}{8}$	5	$1\frac{7}{8}$	15	$9\frac{5}{8}-\frac{1}{16}$
4	$5\frac{1}{4}$	13	$6\frac{1}{2}-\frac{1}{16}$	4	$9\frac{5}{8}$	14	$8\frac{1}{4}-\frac{1}{16}$	5	2	15	$10\frac{1}{16}$
4	$5\frac{3}{8}$	13	7	4	$9\frac{3}{4}$	14	$8\frac{5}{8}-\frac{1}{16}$	5	$2\frac{1}{8}$	15	$10\frac{1}{2}$
4	$5\frac{1}{2}$	13	$7\frac{3}{8}$	4	$9\frac{7}{8}$	14	$9\frac{1}{8}$	5	$2\frac{1}{4}$	15	$10\frac{7}{8}$
4	$5\frac{5}{8}$	13	$7\frac{3}{4}$	4	10	14	$9\frac{1}{2}$	5	$2\frac{3}{8}$	15	$11\frac{1}{4}$
4	$5\frac{3}{4}$	13	$8\frac{1}{8}$	4	$10\frac{1}{8}$	14	$9\frac{7}{8}$	5	$2\frac{1}{2}$	15	$11\frac{5}{8}$
4	$5\frac{7}{8}$	13	$8\frac{1}{2}$	4	$10\frac{1}{4}$	14	$10\frac{1}{4}$	5	$2\frac{5}{8}$	16	0
4	6	13	$8\frac{7}{8}$	4	$10\frac{3}{8}$	14	$10\frac{5}{8}-\frac{1}{16}$	5	$2\frac{3}{4}$	16	$0\frac{3}{8}$
4	$6\frac{1}{8}$	13	$9\frac{1}{4}-\frac{1}{16}$	4	$10\frac{1}{2}$	14	$11\frac{1}{8}$	5	$2\frac{7}{8}$	16	$0\frac{3}{4}-\frac{1}{16}$
4	$6\frac{1}{4}$	13	$9\frac{5}{8}-\frac{1}{16}$	4	$10\frac{5}{8}$	14	$11\frac{1}{2}$	5	3	16	$1\frac{1}{8}-\frac{1}{16}$
4	$6\frac{3}{8}$	13	$10\frac{1}{16}$	4	$10\frac{3}{4}$	14	$11\frac{7}{8}$	5	$3\frac{1}{8}$	16	$1\frac{1}{2}-\frac{1}{16}$
4	$6\frac{1}{2}$	13	$10\frac{1}{2}$	4	$10\frac{7}{8}$	15	$0\frac{1}{4}$	5	$3\frac{1}{4}$	16	2
4	$6\frac{5}{8}$	13	$10\frac{7}{8}$	4	11	15	$0\frac{5}{8}$	5	$3\frac{3}{8}$	16	$2\frac{3}{8}$
4	$6\frac{3}{4}$	13	$11\frac{1}{4}-\frac{1}{16}$	4	$11\frac{1}{8}$	15	1	5	$3\frac{1}{2}$	16	$2\frac{3}{4}-\frac{1}{16}$
4	$6\frac{7}{8}$	13	$11\frac{5}{8}-\frac{1}{16}$	4	$11\frac{1}{4}$	15	$1\frac{3}{8}$	5	$3\frac{5}{8}$	16	$3\frac{1}{8}-\frac{1}{16}$
4	7	14	$0\frac{1}{16}$	4	$11\frac{3}{8}$	15	$1\frac{3}{4}-\frac{1}{16}$	5	$3\frac{3}{4}$	16	$3\frac{1}{2}-\frac{1}{16}$
4	$7\frac{1}{8}$	14	$0\frac{1}{2}$	4	$11\frac{1}{2}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	$3\frac{7}{8}$	16	4
4	$7\frac{1}{4}$	14	$0\frac{7}{8}$	4	$11\frac{5}{8}$	15	$2\frac{1}{2}-\frac{1}{16}$	5	4	16	$4\frac{3}{8}$
4	$7\frac{3}{8}$	14	$1\frac{1}{4}$	4	$11\frac{3}{4}$	15	3	5	$4\frac{1}{8}$	16	$4\frac{3}{4}$
4	$7\frac{1}{2}$	14	$1\frac{5}{8}$	4	$11\frac{7}{8}$	15	$3\frac{3}{8}$	5	$4\frac{1}{4}$	16	$5\frac{1}{8}$
4	$7\frac{5}{8}$	14	2	5	0	15	$3\frac{3}{4}-\frac{1}{16}$	5	$4\frac{3}{8}$	16	$5\frac{1}{2}$



DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	4 $\frac{1}{2}$	16	5 $\frac{7}{8}$	5	8 $\frac{7}{8}$	17	7 $\frac{5}{8}$ - $\frac{1}{16}$	6	1 $\frac{1}{4}$	18	9 $\frac{3}{8}$
5	4 $\frac{5}{8}$	16	6 $\frac{1}{4}$ - $\frac{1}{16}$	5	9	17	8 $\frac{1}{8}$	6	1 $\frac{3}{8}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$
5	4 $\frac{3}{4}$	16	6 $\frac{5}{8}$ - $\frac{1}{16}$	5	9 $\frac{1}{8}$	17	8 $\frac{1}{2}$	6	1 $\frac{1}{2}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$
5	4 $\frac{7}{8}$	16	7 $\frac{1}{8}$	5	9 $\frac{1}{4}$	17	8 $\frac{7}{8}$	6	1 $\frac{5}{8}$	18	10 $\frac{1}{2}$ - $\frac{1}{16}$
5	5	16	7 $\frac{1}{2}$	5	9 $\frac{3}{8}$	17	9 $\frac{1}{4}$	6	1 $\frac{3}{4}$	18	11
5	5 $\frac{1}{8}$	16	7 $\frac{7}{8}$	5	9 $\frac{1}{2}$	17	9 $\frac{3}{8}$	6	1 $\frac{7}{8}$	18	11 $\frac{3}{8}$
5	5 $\frac{1}{4}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	9 $\frac{5}{8}$	17	10	6	2	18	11 $\frac{3}{4}$ - $\frac{1}{16}$
5	5 $\frac{3}{8}$	16	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	9 $\frac{3}{4}$	17	10 $\frac{3}{8}$	6	2 $\frac{1}{8}$	19	0 $\frac{1}{8}$ - $\frac{1}{16}$
5	5 $\frac{1}{2}$	16	9 $\frac{1}{8}$	5	9 $\frac{7}{8}$	17	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	2 $\frac{1}{4}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$
5	5 $\frac{5}{8}$	16	9 $\frac{1}{2}$	5	10	17	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	2 $\frac{3}{8}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$
5	5 $\frac{3}{4}$	16	9 $\frac{7}{8}$	5	10 $\frac{1}{8}$	17	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	2 $\frac{1}{2}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$
5	5 $\frac{7}{8}$	16	10 $\frac{1}{4}$	5	10 $\frac{1}{4}$	18	0	6	2 $\frac{5}{8}$	19	1 $\frac{5}{8}$ - $\frac{1}{16}$
5	6	16	10 $\frac{5}{8}$	5	10 $\frac{3}{8}$	18	0 $\frac{3}{8}$	6	2 $\frac{3}{4}$	19	2 $\frac{1}{8}$
5	6 $\frac{1}{8}$	16	11	5	10 $\frac{1}{2}$	18	0 $\frac{3}{4}$ - $\frac{1}{16}$	6	2 $\frac{7}{8}$	19	2 $\frac{1}{2}$
5	6 $\frac{1}{4}$	16	11 $\frac{3}{8}$	5	10 $\frac{5}{8}$	18	1 $\frac{1}{8}$ - $\frac{1}{16}$	6	3	19	2 $\frac{7}{8}$
5	6 $\frac{3}{8}$	16	11 $\frac{3}{4}$ - $\frac{1}{16}$	5	10 $\frac{3}{4}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$	6	3 $\frac{1}{8}$	19	3 $\frac{1}{4}$ - $\frac{1}{16}$
5	6 $\frac{1}{2}$	17	0 $\frac{1}{8}$ - $\frac{1}{16}$	5	10 $\frac{7}{8}$	18	1 $\frac{7}{8}$ - $\frac{1}{16}$	6	3 $\frac{1}{4}$	19	3 $\frac{5}{8}$ - $\frac{1}{16}$
5	6 $\frac{5}{8}$	17	0 $\frac{1}{2}$ - $\frac{1}{16}$	5	11	18	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	3 $\frac{3}{8}$	19	4 $\frac{1}{8}$
5	6 $\frac{3}{4}$	17	1	5	11 $\frac{1}{8}$	18	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	3 $\frac{1}{2}$	19	4 $\frac{1}{2}$
5	6 $\frac{7}{8}$	17	1 $\frac{3}{8}$	5	11 $\frac{1}{4}$	18	3 $\frac{1}{8}$	6	3 $\frac{5}{8}$	19	4 $\frac{7}{8}$
5	7	17	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	11 $\frac{3}{8}$	18	3 $\frac{1}{2}$	6	3 $\frac{3}{4}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$
5	7 $\frac{1}{8}$	17	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	11 $\frac{1}{2}$	18	3 $\frac{7}{8}$	6	3 $\frac{7}{8}$	19	5 $\frac{5}{8}$ - $\frac{1}{16}$
5	7 $\frac{1}{4}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$	5	11 $\frac{5}{8}$	18	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	4	19	6 $\frac{1}{16}$
5	7 $\frac{3}{8}$	17	3	5	11 $\frac{3}{4}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	4 $\frac{1}{8}$	19	6 $\frac{3}{8}$ - $\frac{1}{16}$
5	7 $\frac{1}{2}$	17	3 $\frac{3}{8}$	5	11 $\frac{7}{8}$	18	5 $\frac{1}{8}$	6	4 $\frac{1}{4}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$
5	7 $\frac{5}{8}$	17	3 $\frac{3}{4}$	6	0	18	5 $\frac{1}{2}$	6	4 $\frac{3}{8}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$
5	7 $\frac{3}{4}$	17	4 $\frac{1}{8}$	6	0 $\frac{1}{8}$	18	5 $\frac{7}{8}$	6	4 $\frac{1}{2}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$
5	7 $\frac{7}{8}$	17	4 $\frac{1}{2}$	6	0 $\frac{1}{4}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$	6	4 $\frac{5}{8}$	19	8
5	8	17	4 $\frac{7}{8}$	6	0 $\frac{3}{8}$	18	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	4 $\frac{3}{4}$	19	8 $\frac{3}{8}$
5	8 $\frac{1}{8}$	17	5 $\frac{1}{4}$	6	0 $\frac{1}{2}$	18	7 $\frac{1}{16}$	6	4 $\frac{7}{8}$	19	8 $\frac{3}{4}$ - $\frac{1}{16}$
5	8 $\frac{1}{4}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$	6	0 $\frac{5}{8}$	18	7 $\frac{3}{8}$ - $\frac{1}{16}$	6	5	19	9 $\frac{1}{8}$ - $\frac{1}{16}$
5	8 $\frac{3}{8}$	17	6 $\frac{1}{8}$	6	0 $\frac{3}{4}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{1}{8}$	19	9 $\frac{1}{2}$ - $\frac{1}{16}$
5	8 $\frac{1}{2}$	17	6 $\frac{1}{2}$	6	0 $\frac{7}{8}$	18	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{4}$	19	10
5	8 $\frac{5}{8}$	17	6 $\frac{7}{8}$	6	1	18	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{3}{8}$	19	10 $\frac{3}{8}$
5	8 $\frac{3}{4}$	17	7 $\frac{1}{4}$	6	1 $\frac{1}{8}$	18	9	6	5 $\frac{1}{2}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$

# 158 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$5\frac{5}{8}$	19	$11\frac{1}{8}-\frac{1}{16}$	6	10	21	$0\frac{7}{8}$	7	$2\frac{3}{8}$	22	$2\frac{5}{8}$
6	$5\frac{3}{4}$	19	$11\frac{1}{2}-\frac{1}{16}$	6	$10\frac{1}{8}$	21	$1\frac{1}{4}-\frac{1}{16}$	7	$2\frac{1}{2}$	22	3
6	$5\frac{7}{8}$	19	$11\frac{7}{8}-\frac{1}{16}$	6	$10\frac{1}{4}$	21	$1\frac{5}{8}-\frac{1}{16}$	7	$2\frac{5}{8}$	22	$3\frac{3}{8}$
6	6	20	$0\frac{1}{4}-\frac{1}{16}$	6	$10\frac{3}{8}$	21	$2\frac{1}{8}$	7	$2\frac{3}{4}$	22	$3\frac{3}{4}-\frac{1}{16}$
6	$6\frac{1}{8}$	20	$0\frac{5}{8}-\frac{1}{16}$	6	$10\frac{1}{2}$	21	$2\frac{1}{2}$	7	$2\frac{7}{8}$	22	$4\frac{1}{8}-\frac{1}{16}$
6	$6\frac{1}{4}$	20	$1\frac{1}{8}$	6	$10\frac{5}{8}$	21	$2\frac{7}{8}$	7	3	22	$4\frac{1}{2}-\frac{1}{16}$
6	$6\frac{3}{8}$	20	$1\frac{1}{2}$	6	$10\frac{3}{4}$	21	$3\frac{1}{4}$	7	$3\frac{1}{8}$	22	5
6	$6\frac{1}{2}$	20	$1\frac{7}{8}$	6	$10\frac{7}{8}$	21	$3\frac{5}{8}$	7	$3\frac{1}{4}$	22	$5\frac{3}{8}$
6	$6\frac{5}{8}$	20	$2\frac{1}{4}-\frac{1}{16}$	6	11	21	4	7	$3\frac{3}{8}$	22	$5\frac{3}{4}-\frac{1}{16}$
6	$6\frac{3}{4}$	20	$2\frac{5}{8}-\frac{1}{16}$	6	$11\frac{1}{8}$	21	$4\frac{3}{8}$	7	$3\frac{1}{2}$	22	$6\frac{1}{8}-\frac{1}{16}$
6	$6\frac{7}{8}$	20	$3\frac{1}{8}$	6	$11\frac{1}{4}$	21	$4\frac{3}{4}-\frac{1}{16}$	7	$3\frac{5}{8}$	22	$6\frac{1}{2}-\frac{1}{16}$
6	7	20	$3\frac{1}{2}$	6	$11\frac{3}{8}$	21	$5\frac{1}{8}-\frac{1}{16}$	7	$3\frac{3}{4}$	22	7
6	$7\frac{1}{8}$	20	$3\frac{7}{8}$	6	$11\frac{1}{2}$	21	$5\frac{1}{2}-\frac{1}{16}$	7	$3\frac{7}{8}$	22	$7\frac{3}{8}$
6	$7\frac{1}{4}$	20	$4\frac{1}{4}-\frac{1}{16}$	6	$11\frac{5}{8}$	21	6	7	4	22	$7\frac{3}{4}$
6	$7\frac{3}{8}$	20	$4\frac{5}{8}-\frac{1}{16}$	6	$11\frac{3}{4}$	21	$6\frac{3}{8}$	7	$4\frac{1}{8}$	22	$8\frac{1}{8}$
6	$7\frac{1}{2}$	20	$5\frac{1}{16}$	6	$11\frac{7}{8}$	21	$6\frac{3}{4}-\frac{1}{16}$	7	$4\frac{1}{4}$	22	$8\frac{1}{2}$
6	$7\frac{5}{8}$	20	$5\frac{3}{8}-\frac{1}{16}$	7	0	21	$7\frac{1}{8}-\frac{1}{16}$	7	$4\frac{3}{8}$	22	$8\frac{7}{8}$
6	$7\frac{3}{4}$	20	$5\frac{3}{4}-\frac{1}{16}$	7	$0\frac{1}{8}$	21	$7\frac{1}{2}-\frac{1}{16}$	7	$4\frac{1}{2}$	22	$9\frac{1}{4}-\frac{1}{16}$
6	$7\frac{7}{8}$	20	$6\frac{1}{8}-\frac{1}{16}$	7	$0\frac{1}{4}$	21	8	7	$4\frac{5}{8}$	22	$9\frac{5}{8}-\frac{1}{16}$
6	8	20	$6\frac{1}{2}-\frac{1}{16}$	7	$0\frac{3}{8}$	21	$8\frac{3}{8}$	7	$4\frac{3}{4}$	22	$10\frac{1}{8}$
6	$8\frac{1}{8}$	20	7	7	$0\frac{1}{2}$	21	$8\frac{3}{4}$	7	$4\frac{7}{8}$	22	$10\frac{1}{2}$
6	$8\frac{1}{4}$	20	$7\frac{3}{8}$	7	$0\frac{5}{8}$	21	$9\frac{1}{8}$	7	5	22	$10\frac{7}{8}$
6	$8\frac{3}{8}$	20	$7\frac{3}{4}-\frac{1}{16}$	7	$0\frac{3}{4}$	21	$9\frac{1}{2}$	7	$5\frac{1}{8}$	22	$11\frac{1}{4}-\frac{1}{16}$
6	$8\frac{1}{2}$	20	$8\frac{1}{8}-\frac{1}{16}$	7	$0\frac{7}{8}$	21	$9\frac{7}{8}$	7	$5\frac{1}{4}$	22	$11\frac{5}{8}-\frac{1}{16}$
6	$8\frac{5}{8}$	20	$8\frac{1}{2}-\frac{1}{16}$	7	1	21	$10\frac{1}{4}-\frac{1}{16}$	7	$5\frac{3}{8}$	23	$0\frac{1}{8}$
6	$8\frac{3}{4}$	20	9	7	$1\frac{1}{8}$	21	$10\frac{5}{8}-\frac{1}{16}$	7	$5\frac{1}{2}$	23	$0\frac{1}{2}$
6	$8\frac{7}{8}$	20	$9\frac{3}{8}$	7	$1\frac{1}{4}$	21	$11\frac{1}{8}$	7	$5\frac{5}{8}$	23	$0\frac{7}{8}$
6	9	20	$9\frac{3}{4}$	7	$1\frac{3}{8}$	21	$11\frac{1}{2}$	7	$5\frac{3}{4}$	23	$1\frac{1}{4}$
6	$9\frac{1}{8}$	20	$10\frac{1}{8}$	7	$1\frac{1}{2}$	21	$11\frac{7}{8}$	7	$5\frac{7}{8}$	23	$1\frac{5}{8}$
6	$9\frac{1}{4}$	20	$10\frac{1}{2}$	7	$1\frac{5}{8}$	22	$0\frac{1}{4}-\frac{1}{16}$	7	6	23	2
6	$9\frac{3}{8}$	20	$10\frac{7}{8}$	7	$1\frac{3}{4}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	$6\frac{1}{8}$	23	$2\frac{3}{8}$
6	$9\frac{1}{2}$	20	$11\frac{1}{4}-\frac{1}{16}$	7	$1\frac{7}{8}$	22	$1\frac{1}{8}$	7	$6\frac{1}{4}$	23	$2\frac{3}{4}-\frac{1}{16}$
6	$9\frac{5}{8}$	20	$11\frac{5}{8}-\frac{1}{16}$	7	2	22	$1\frac{1}{2}$	7	$6\frac{3}{8}$	23	$3\frac{1}{8}-\frac{1}{16}$
6	$9\frac{3}{4}$	21	$0\frac{1}{8}$	7	$2\frac{1}{8}$	22	$1\frac{7}{8}$	7	$6\frac{1}{2}$	23	$3\frac{1}{2}-\frac{1}{16}$
6	$9\frac{7}{8}$	21	$0\frac{1}{2}$	7	$2\frac{1}{4}$	22	$2\frac{1}{4}$	7	$6\frac{5}{8}$	23	4

ANGLE-IRON RINGS (FLANGE INSIDE). 159

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	6 $\frac{3}{4}$	23	4 $\frac{3}{8}$	7	11 $\frac{1}{8}$	24	6 $\frac{1}{8}$	8	3 $\frac{1}{2}$	25	7 $\frac{7}{8}$
7	6 $\frac{7}{8}$	23	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	11 $\frac{1}{4}$	24	6 $\frac{1}{2}$	8	3 $\frac{5}{8}$	25	8 $\frac{1}{4}$ - $\frac{1}{16}$
7	7	23	5 $\frac{1}{8}$ - $\frac{1}{16}$	7	11 $\frac{3}{8}$	24	6 $\frac{7}{8}$	8	3 $\frac{3}{4}$	25	8 $\frac{5}{8}$ - $\frac{1}{16}$
7	7 $\frac{1}{8}$	23	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	11 $\frac{1}{2}$	24	7 $\frac{1}{4}$ - $\frac{1}{16}$	8	3 $\frac{7}{8}$	25	9 $\frac{1}{16}$
7	7 $\frac{1}{4}$	23	6	7	11 $\frac{5}{8}$	24	7 $\frac{5}{8}$ - $\frac{1}{16}$	8	4	25	9 $\frac{3}{8}$ - $\frac{1}{16}$
7	7 $\frac{3}{8}$	23	6 $\frac{3}{8}$	7	11 $\frac{3}{4}$	24	8 $\frac{1}{8}$	8	4 $\frac{1}{8}$	25	9 $\frac{3}{4}$ - $\frac{1}{16}$
7	7 $\frac{1}{2}$	23	6 $\frac{3}{4}$	7	11 $\frac{7}{8}$	24	8 $\frac{1}{2}$	8	4 $\frac{1}{4}$	25	10 $\frac{1}{8}$ - $\frac{1}{16}$
7	7 $\frac{5}{8}$	23	7 $\frac{1}{8}$	8	0	24	8 $\frac{7}{8}$	8	4 $\frac{3}{8}$	25	10 $\frac{1}{2}$ - $\frac{1}{16}$
7	7 $\frac{3}{4}$	23	7 $\frac{1}{2}$	8	0 $\frac{1}{8}$	24	9 $\frac{1}{4}$ - $\frac{1}{16}$	8	4 $\frac{1}{2}$	25	11
7	7 $\frac{7}{8}$	23	7 $\frac{7}{8}$	8	0 $\frac{1}{4}$	24	9 $\frac{5}{8}$ - $\frac{1}{16}$	8	4 $\frac{5}{8}$	25	11 $\frac{3}{8}$
7	8	23	8 $\frac{1}{4}$ - $\frac{1}{16}$	8	0 $\frac{3}{8}$	24	10 $\frac{1}{16}$	8	4 $\frac{3}{4}$	25	11 $\frac{3}{4}$ - $\frac{1}{16}$
7	8 $\frac{1}{8}$	23	8 $\frac{3}{8}$ - $\frac{1}{16}$	8	0 $\frac{1}{2}$	24	10 $\frac{3}{8}$ - $\frac{1}{16}$	8	4 $\frac{7}{8}$	26	0 $\frac{1}{8}$ - $\frac{1}{16}$
7	8 $\frac{1}{4}$	23	9 $\frac{1}{16}$	8	0 $\frac{5}{8}$	24	10 $\frac{3}{4}$ - $\frac{1}{16}$	8	5	26	0 $\frac{1}{2}$ - $\frac{1}{16}$
7	8 $\frac{3}{8}$	23	9 $\frac{1}{2}$	8	0 $\frac{3}{4}$	24	11 $\frac{1}{8}$ - $\frac{1}{16}$	8	5 $\frac{1}{8}$	26	1
7	8 $\frac{1}{2}$	23	9 $\frac{7}{8}$	8	0 $\frac{7}{8}$	24	11 $\frac{1}{2}$ - $\frac{1}{16}$	8	5 $\frac{1}{4}$	26	1 $\frac{3}{8}$
7	8 $\frac{5}{8}$	23	10 $\frac{1}{4}$ - $\frac{1}{16}$	8	1	25	0	8	5 $\frac{3}{8}$	26	1 $\frac{3}{4}$ - $\frac{1}{16}$
7	8 $\frac{3}{4}$	23	10 $\frac{5}{8}$ - $\frac{1}{16}$	8	1 $\frac{1}{8}$	25	0 $\frac{3}{8}$	8	5 $\frac{1}{2}$	26	2 $\frac{1}{8}$ - $\frac{1}{16}$
7	8 $\frac{7}{8}$	23	11 $\frac{1}{16}$	8	1 $\frac{1}{4}$	25	0 $\frac{3}{4}$ - $\frac{1}{16}$	8	5 $\frac{5}{8}$	26	2 $\frac{1}{2}$ - $\frac{1}{16}$
7	9	23	11 $\frac{3}{8}$ - $\frac{1}{16}$	8	1 $\frac{3}{8}$	25	1 $\frac{1}{8}$ - $\frac{1}{16}$	8	5 $\frac{3}{4}$	26	2 $\frac{7}{8}$ - $\frac{1}{16}$
7	9 $\frac{1}{8}$	23	11 $\frac{3}{4}$ - $\frac{1}{16}$	8	1 $\frac{1}{2}$	25	1 $\frac{1}{2}$ - $\frac{1}{16}$	8	5 $\frac{7}{8}$	26	3 $\frac{1}{4}$ - $\frac{1}{16}$
7	9 $\frac{1}{4}$	24	0 $\frac{1}{8}$ - $\frac{1}{16}$	8	1 $\frac{5}{8}$	25	2	8	6	26	3 $\frac{5}{8}$ - $\frac{1}{16}$
7	9 $\frac{3}{8}$	24	0 $\frac{1}{2}$ - $\frac{1}{16}$	8	1 $\frac{3}{4}$	25	2 $\frac{3}{8}$	8	6 $\frac{1}{8}$	26	4 $\frac{1}{8}$
7	9 $\frac{1}{2}$	24	1	8	1 $\frac{7}{8}$	25	2 $\frac{3}{4}$ - $\frac{1}{16}$	8	6 $\frac{1}{4}$	26	4 $\frac{1}{2}$
7	9 $\frac{5}{8}$	24	1 $\frac{3}{8}$	8	2	25	3 $\frac{1}{8}$ - $\frac{1}{16}$	8	6 $\frac{3}{8}$	26	4 $\frac{7}{8}$
7	9 $\frac{3}{4}$	24	1 $\frac{3}{4}$ - $\frac{1}{16}$	8	2 $\frac{1}{8}$	25	3 $\frac{1}{2}$ - $\frac{1}{16}$	8	6 $\frac{1}{2}$	26	5 $\frac{1}{4}$ - $\frac{1}{16}$
7	9 $\frac{7}{8}$	24	2 $\frac{1}{8}$ - $\frac{1}{16}$	8	2 $\frac{1}{4}$	25	3 $\frac{7}{8}$ - $\frac{1}{16}$	8	6 $\frac{5}{8}$	26	5 $\frac{5}{8}$ - $\frac{1}{16}$
7	0	24	2 $\frac{1}{2}$ - $\frac{1}{16}$	8	2 $\frac{3}{8}$	25	4 $\frac{1}{4}$ - $\frac{1}{16}$	8	6 $\frac{3}{4}$	26	6 $\frac{1}{16}$
7	10 $\frac{1}{8}$	24	3	8	2 $\frac{1}{2}$	25	4 $\frac{5}{8}$ - $\frac{1}{16}$	8	6 $\frac{7}{8}$	26	6 $\frac{3}{8}$ - $\frac{1}{16}$
7	10 $\frac{1}{4}$	24	3 $\frac{3}{8}$	8	2 $\frac{3}{8}$	25	5 $\frac{1}{8}$	8	7	26	6 $\frac{3}{4}$ - $\frac{1}{16}$
7	10 $\frac{3}{8}$	24	3 $\frac{3}{4}$ - $\frac{1}{16}$	8	2 $\frac{3}{4}$	25	5 $\frac{1}{2}$	8	7 $\frac{1}{8}$	26	7 $\frac{1}{4}$
7	10 $\frac{1}{2}$	24	4 $\frac{1}{8}$ - $\frac{1}{16}$	8	2 $\frac{7}{8}$	25	5 $\frac{7}{8}$	8	7 $\frac{1}{4}$	26	7 $\frac{5}{8}$
7	10 $\frac{5}{8}$	24	4 $\frac{1}{2}$ - $\frac{1}{16}$	8	3	25	6 $\frac{1}{4}$ - $\frac{1}{16}$	8	7 $\frac{3}{8}$	26	8
7	10 $\frac{3}{4}$	24	5	8	3 $\frac{1}{8}$	25	6 $\frac{5}{8}$ - $\frac{1}{16}$	8	7 $\frac{1}{2}$	26	8 $\frac{3}{8}$ - $\frac{1}{16}$
7	10 $\frac{7}{8}$	24	5 $\frac{3}{8}$	8	3 $\frac{1}{4}$	25	7 $\frac{1}{8}$	8	7 $\frac{5}{8}$	26	8 $\frac{3}{4}$ - $\frac{1}{16}$
7	11	24	5 $\frac{3}{4}$	8	3 $\frac{3}{8}$	25	7 $\frac{1}{2}$	8	7 $\frac{3}{4}$	26	9 $\frac{1}{8}$ - $\frac{1}{16}$

# 160      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$7\frac{7}{8}$	26	$9\frac{1}{2}-\frac{1}{16}$	9	$0\frac{1}{4}$	27	$11\frac{1}{4}-\frac{1}{16}$	9	$4\frac{5}{8}$	29	$1\frac{1}{16}$
8	8	26	10	9	$0\frac{3}{8}$	27	$11\frac{3}{4}$	9	$4\frac{3}{4}$	29	$1\frac{1}{2}$
8	$8\frac{1}{8}$	26	$10\frac{3}{8}$	9	$0\frac{1}{2}$	28	$0\frac{1}{8}$	9	$4\frac{7}{8}$	29	$1\frac{7}{8}$
8	$8\frac{1}{4}$	26	$10\frac{3}{4}$	9	$0\frac{5}{8}$	28	$0\frac{1}{2}$	9	5	29	$2\frac{1}{4}$
8	$8\frac{3}{8}$	26	$11\frac{1}{8}-\frac{1}{16}$	9	$0\frac{3}{4}$	28	$0\frac{7}{8}$	9	$5\frac{1}{8}$	29	$2\frac{5}{8}$
8	$8\frac{1}{2}$	26	$11\frac{1}{2}-\frac{1}{16}$	9	$0\frac{7}{8}$	28	$1\frac{1}{4}-\frac{1}{16}$	9	$5\frac{1}{4}$	29	3
8	$8\frac{3}{4}$	26	$11\frac{7}{8}-\frac{1}{16}$	9	1	28	$1\frac{5}{8}-\frac{1}{16}$	9	$5\frac{3}{8}$	29	$3\frac{3}{8}-\frac{1}{16}$
8	$8\frac{3}{4}$	27	$0\frac{1}{4}-\frac{1}{16}$	9	$1\frac{1}{8}$	28	$2\frac{1}{16}$	9	$5\frac{1}{2}$	29	$3\frac{3}{4}-\frac{1}{16}$
8	$8\frac{7}{8}$	27	$0\frac{5}{8}-\frac{1}{16}$	9	$1\frac{1}{4}$	28	$2\frac{1}{2}$	9	$5\frac{5}{8}$	29	$4\frac{1}{4}$
8	9	27	$1\frac{1}{16}$	9	$1\frac{3}{8}$	28	$2\frac{7}{8}$	9	$5\frac{3}{4}$	29	$4\frac{5}{8}$
8	$9\frac{1}{8}$	27	$1\frac{1}{2}$	9	$1\frac{1}{2}$	28	$3\frac{1}{4}$	9	$5\frac{7}{8}$	29	5
8	$9\frac{1}{4}$	27	$1\frac{7}{8}-\frac{1}{16}$	9	$1\frac{5}{8}$	28	$3\frac{5}{8}$	9	6	29	$5\frac{3}{8}$
8	$9\frac{3}{8}$	27	$2\frac{1}{4}-\frac{1}{16}$	9	$1\frac{3}{4}$	28	4	9	$6\frac{1}{8}$	29	$5\frac{3}{4}-\frac{1}{16}$
8	$9\frac{1}{2}$	27	$2\frac{5}{8}-\frac{1}{16}$	9	$1\frac{7}{8}$	28	$4\frac{3}{8}-\frac{1}{16}$	9	$6\frac{1}{4}$	29	$6\frac{1}{8}-\frac{1}{16}$
8	$9\frac{5}{8}$	27	$3\frac{1}{16}$	9	2	28	$4\frac{7}{8}$	9	$6\frac{3}{8}$	29	$6\frac{1}{2}-\frac{1}{16}$
8	$9\frac{3}{4}$	27	$3\frac{1}{2}$	9	$2\frac{1}{8}$	28	$5\frac{1}{4}$	9	$6\frac{1}{2}$	29	7
8	$9\frac{7}{8}$	27	$3\frac{7}{8}$	9	$2\frac{1}{4}$	28	$5\frac{5}{8}$	9	$6\frac{5}{8}$	29	$7\frac{3}{8}$
8	10	27	$4\frac{1}{4}$	9	$2\frac{3}{8}$	28	6	9	$6\frac{3}{4}$	29	$7\frac{3}{4}$
8	$10\frac{1}{8}$	27	$4\frac{5}{8}-\frac{1}{16}$	9	$2\frac{1}{2}$	28	$6\frac{3}{8}$	9	$6\frac{7}{8}$	29	$8\frac{1}{8}$
8	$10\frac{1}{4}$	27	$5\frac{1}{16}$	9	$2\frac{5}{8}$	28	$6\frac{3}{4}-\frac{1}{16}$	9	7	29	$8\frac{1}{2}-\frac{1}{16}$
8	$10\frac{3}{8}$	27	$5\frac{3}{8}-\frac{1}{16}$	9	$2\frac{3}{4}$	28	$7\frac{1}{8}-\frac{1}{16}$	9	$7\frac{1}{8}$	29	$8\frac{7}{8}-\frac{1}{16}$
8	$10\frac{1}{2}$	27	$5\frac{3}{4}-\frac{1}{16}$	9	$2\frac{7}{8}$	28	$7\frac{1}{2}-\frac{1}{16}$	9	$7\frac{1}{4}$	29	$9\frac{1}{4}-\frac{1}{16}$
8	$10\frac{5}{8}$	27	$6\frac{1}{4}$	9	3	28	8	9	$7\frac{3}{8}$	29	$9\frac{3}{4}$
8	$10\frac{3}{4}$	27	$6\frac{5}{8}$	9	$3\frac{1}{8}$	28	$8\frac{3}{8}$	9	$7\frac{1}{2}$	29	$10\frac{1}{8}$
8	$10\frac{7}{8}$	27	7	9	$3\frac{1}{4}$	28	$8\frac{3}{4}$	9	$7\frac{5}{8}$	29	$10\frac{1}{2}$
8	11	27	$7\frac{3}{8}-\frac{1}{16}$	9	$3\frac{3}{8}$	28	$9\frac{1}{8}$	9	$7\frac{3}{4}$	29	$10\frac{7}{8}$
8	$11\frac{1}{8}$	27	$7\frac{3}{4}-\frac{1}{16}$	9	$3\frac{1}{2}$	28	$9\frac{1}{2}$	9	$7\frac{7}{8}$	29	$11\frac{1}{4}-\frac{1}{16}$
8	$11\frac{1}{4}$	27	$8\frac{1}{8}-\frac{1}{16}$	9	$3\frac{5}{8}$	28	$9\frac{7}{8}-\frac{1}{16}$	9	8	29	$11\frac{5}{8}-\frac{1}{16}$
8	$11\frac{3}{8}$	27	$8\frac{1}{2}-\frac{1}{16}$	9	$3\frac{3}{4}$	28	$10\frac{1}{4}-\frac{1}{16}$	9	$8\frac{1}{8}$	30	$0\frac{1}{16}$
8	$11\frac{1}{2}$	27	9	9	$3\frac{7}{8}$	28	$10\frac{3}{4}$	9	$8\frac{1}{4}$	30	$0\frac{3}{8}-\frac{1}{16}$
8	$11\frac{5}{8}$	27	$9\frac{3}{8}$	9	4	28	$11\frac{1}{8}$	9	$8\frac{3}{8}$	30	$0\frac{7}{8}$
8	$11\frac{3}{4}$	27	$9\frac{3}{4}$	9	$4\frac{1}{8}$	28	$11\frac{1}{2}$	9	$8\frac{1}{2}$	30	$1\frac{1}{4}$
8	$11\frac{7}{8}$	27	$10\frac{1}{8}$	9	$4\frac{1}{4}$	28	$11\frac{7}{8}$	9	$8\frac{5}{8}$	30	$1\frac{5}{8}$
9	0	27	$10\frac{1}{2}$	9	$4\frac{3}{8}$	29	$0\frac{1}{4}-\frac{1}{16}$	9	$8\frac{3}{4}$	30	2
9	$0\frac{1}{8}$	27	$10\frac{7}{8}-\frac{1}{16}$	9	$4\frac{1}{2}$	29	$0\frac{5}{8}-\frac{1}{16}$	9	$8\frac{7}{8}$	30	$2\frac{3}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 161

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	9	30	$2\frac{3}{4}-\frac{1}{16}$	10	$1\frac{3}{8}$	31	$4\frac{1}{2}-\frac{1}{16}$	10	$5\frac{3}{4}$	32	$6\frac{1}{4}-\frac{1}{16}$
9	$9\frac{1}{8}$	30	$3\frac{1}{4}$	10	$1\frac{1}{2}$	31	5	10	$5\frac{7}{8}$	32	$6\frac{5}{8}-\frac{1}{16}$
9	$9\frac{1}{4}$	30	$3\frac{5}{8}$	10	$1\frac{5}{8}$	31	$5\frac{3}{8}$	10	6	32	$7\frac{1}{8}$
9	$9\frac{3}{8}$	30	4	10	$1\frac{3}{4}$	31	$5\frac{3}{4}$	10	$6\frac{1}{8}$	32	$7\frac{1}{2}$
9	$9\frac{1}{2}$	30	$4\frac{3}{8}$	10	$1\frac{7}{8}$	31	$6\frac{1}{8}$	10	$6\frac{1}{4}$	32	$7\frac{7}{8}$
9	$9\frac{5}{8}$	30	$4\frac{3}{4}$	10	2	31	$6\frac{1}{2}$	10	$6\frac{3}{8}$	32	$8\frac{1}{4}$
9	$9\frac{3}{4}$	30	$5\frac{1}{8}-\frac{1}{16}$	10	$2\frac{1}{8}$	31	$6\frac{7}{8}-\frac{1}{16}$	10	$6\frac{1}{2}$	32	$8\frac{5}{8}-\frac{1}{16}$
9	$9\frac{7}{8}$	30	$5\frac{1}{2}-\frac{1}{16}$	10	$2\frac{1}{4}$	31	$7\frac{1}{4}-\frac{1}{16}$	10	$6\frac{5}{8}$	32	$9\frac{1}{16}$
9	10	30	6	10	$2\frac{3}{8}$	31	$7\frac{5}{8}-\frac{1}{16}$	10	$6\frac{3}{4}$	32	$9\frac{3}{8}-\frac{1}{16}$
9	$10\frac{1}{8}$	30	$6\frac{3}{8}$	10	$2\frac{1}{2}$	31	$8\frac{1}{8}$	10	$6\frac{7}{8}$	32	$9\frac{3}{4}-\frac{1}{16}$
9	$10\frac{1}{4}$	30	$6\frac{3}{4}$	10	$2\frac{5}{8}$	31	$8\frac{1}{2}$	10	7	32	$10\frac{1}{4}$
9	$10\frac{3}{8}$	30	$7\frac{1}{8}$	10	$2\frac{3}{4}$	31	$8\frac{3}{8}$	10	$7\frac{1}{8}$	32	$10\frac{5}{8}$
9	$10\frac{1}{2}$	30	$7\frac{1}{2}$	10	$2\frac{7}{8}$	31	$9\frac{1}{4}$	10	$7\frac{1}{4}$	32	11
9	$10\frac{5}{8}$	30	$7\frac{7}{8}-\frac{1}{16}$	10	3	31	$9\frac{5}{8}-\frac{1}{16}$	10	$7\frac{3}{8}$	32	$11\frac{3}{8}-\frac{1}{16}$
9	$10\frac{3}{4}$	30	$8\frac{1}{4}-\frac{1}{16}$	10	$3\frac{1}{8}$	31	$10\frac{1}{16}$	10	$7\frac{1}{2}$	32	$11\frac{3}{4}-\frac{1}{16}$
9	$10\frac{7}{8}$	30	$8\frac{3}{4}$	10	$3\frac{1}{4}$	31	$10\frac{3}{8}-\frac{1}{16}$	10	$7\frac{5}{8}$	33	$0\frac{1}{4}$
9	11	30	$9\frac{1}{8}$	10	$3\frac{3}{8}$	31	$10\frac{7}{8}$	10	$7\frac{3}{4}$	33	$0\frac{5}{8}$
9	$11\frac{1}{8}$	30	$9\frac{1}{2}$	10	$3\frac{1}{2}$	31	$11\frac{1}{4}$	10	$7\frac{7}{8}$	33	1
9	$11\frac{1}{4}$	30	$9\frac{7}{8}$	10	$3\frac{5}{8}$	31	$11\frac{5}{8}$	10	8	33	$1\frac{3}{8}$
9	$11\frac{3}{8}$	30	$10\frac{1}{4}$	10	$3\frac{3}{4}$	32	0	10	$8\frac{1}{8}$	33	$1\frac{1}{4}$
9	$11\frac{1}{2}$	30	$10\frac{3}{8}-\frac{1}{16}$	10	$3\frac{7}{8}$	32	$0\frac{3}{8}-\frac{1}{16}$	10	$8\frac{1}{4}$	33	$2\frac{1}{8}-\frac{1}{16}$
9	$11\frac{5}{8}$	30	$11\frac{1}{16}$	10	4	32	$0\frac{3}{4}-\frac{1}{16}$	10	$8\frac{3}{8}$	33	$2\frac{1}{2}-\frac{1}{16}$
9	$11\frac{3}{4}$	30	$11\frac{3}{8}-\frac{1}{16}$	10	$4\frac{1}{8}$	32	$1\frac{1}{8}-\frac{1}{16}$	10	$8\frac{1}{2}$	33	3
9	$11\frac{7}{8}$	30	$11\frac{3}{4}-\frac{1}{16}$	10	$4\frac{1}{4}$	32	$1\frac{5}{8}$	10	$8\frac{5}{8}$	33	$3\frac{3}{8}$
10	0	31	$0\frac{1}{4}$	10	$4\frac{3}{8}$	32	2	10	$8\frac{3}{4}$	33	$3\frac{3}{4}$
10	$0\frac{1}{8}$	31	$0\frac{5}{8}$	10	$4\frac{1}{2}$	32	$2\frac{3}{8}$	10	$8\frac{7}{8}$	33	$4\frac{1}{8}$
10	$0\frac{1}{4}$	31	1	10	$4\frac{5}{8}$	32	$2\frac{3}{4}-\frac{1}{16}$	10	9	33	$4\frac{1}{2}$
10	$0\frac{3}{8}$	31	$1\frac{3}{8}-\frac{1}{16}$	10	$4\frac{3}{4}$	32	$3\frac{1}{8}-\frac{1}{16}$	10	$9\frac{1}{8}$	33	$4\frac{7}{8}$
10	$0\frac{1}{2}$	31	$1\frac{7}{8}-\frac{1}{16}$	10	$4\frac{7}{8}$	32	$3\frac{1}{2}-\frac{1}{16}$	10	$9\frac{1}{4}$	33	$5\frac{1}{4}-\frac{1}{16}$
10	$0\frac{5}{8}$	31	$2\frac{1}{4}$	10	5	32	$3\frac{7}{8}-\frac{1}{16}$	10	$9\frac{3}{8}$	33	$5\frac{5}{8}-\frac{1}{16}$
10	$0\frac{3}{4}$	31	$2\frac{5}{8}$	10	$5\frac{1}{8}$	32	$4\frac{3}{8}$	10	$9\frac{1}{2}$	33	$6\frac{1}{16}$
10	$0\frac{7}{8}$	31	3	10	$5\frac{1}{4}$	32	$4\frac{3}{4}$	10	$9\frac{5}{8}$	33	$6\frac{1}{2}$
10	1	31	$3\frac{3}{8}$	10	$5\frac{3}{8}$	32	$5\frac{1}{8}$	10	$9\frac{3}{4}$	33	$6\frac{7}{8}$
10	$1\frac{1}{8}$	31	$3\frac{3}{4}$	10	$5\frac{1}{2}$	32	$5\frac{1}{2}$	10	$9\frac{7}{8}$	33	$7\frac{1}{4}$
10	$1\frac{1}{4}$	31	$4\frac{1}{8}$	10	$5\frac{5}{8}$	32	$5\frac{7}{8}-\frac{1}{16}$	10	10	33	$7\frac{5}{8}-\frac{1}{16}$

# 162 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	$10\frac{1}{8}$	33	$8\frac{1}{16}$	10	$10\frac{7}{8}$	33	$10\frac{3}{8}-\frac{1}{16}$	10	$11\frac{5}{8}$	34	$0\frac{3}{4}$
10	$10\frac{1}{4}$	33	$8\frac{3}{8}-\frac{1}{16}$	10	11	33	$10\frac{3}{4}-\frac{1}{16}$	10	$11\frac{3}{4}$	34	$1\frac{1}{8}-\frac{1}{16}$
10	$10\frac{3}{8}$	33	$8\frac{7}{8}$	10	$11\frac{1}{8}$	33	$11\frac{1}{8}-\frac{1}{16}$	10	$11\frac{7}{8}$	34	$1\frac{1}{2}-\frac{1}{16}$
10	$10\frac{1}{2}$	33	$9\frac{1}{4}$	10	$11\frac{1}{4}$	33	$11\frac{1}{2}-\frac{1}{16}$	11	0	34	$1\frac{7}{8}-\frac{1}{16}$
10	$10\frac{5}{8}$	33	$9\frac{5}{8}$	10	$11\frac{3}{8}$	34	0				
10	$10\frac{3}{4}$	33	10	10	$11\frac{1}{2}$	34	$0\frac{3}{8}$				

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}-\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	$8\frac{1}{2}-\frac{1}{16}$	1	$2\frac{3}{4}$	3	$5\frac{1}{8}-\frac{1}{16}$	1	$5\frac{1}{2}$	4	$1\frac{3}{4}-\frac{1}{16}$
1	$0\frac{1}{8}$	2	$8\frac{7}{8}-\frac{1}{16}$	1	$2\frac{7}{8}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$5\frac{5}{8}$	4	$2\frac{1}{4}$
1	$0\frac{1}{4}$	2	$9\frac{1}{4}-\frac{1}{16}$	1	3	3	6	1	$5\frac{3}{4}$	4	$2\frac{5}{8}$
1	$0\frac{3}{8}$	2	$9\frac{3}{4}$	1	$3\frac{1}{8}$	3	$6\frac{3}{8}$	1	$5\frac{7}{8}$	4	$3\frac{1}{16}$
1	$0\frac{1}{2}$	2	$10\frac{1}{8}$	1	$3\frac{1}{4}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	6	4	$3\frac{3}{8}-\frac{1}{16}$
1	$0\frac{3}{8}$	2	$10\frac{1}{2}-\frac{1}{16}$	1	$3\frac{3}{8}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	$6\frac{1}{8}$	4	$3\frac{3}{4}-\frac{1}{16}$
1	$0\frac{3}{4}$	2	$10\frac{7}{8}-\frac{1}{16}$	1	$3\frac{1}{2}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$6\frac{1}{4}$	4	$4\frac{1}{8}-\frac{1}{16}$
1	$0\frac{7}{8}$	2	$11\frac{1}{4}-\frac{1}{16}$	1	$3\frac{5}{8}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$6\frac{3}{8}$	4	$4\frac{1}{2}-\frac{1}{16}$
1	1	2	$11\frac{5}{8}-\frac{1}{16}$	1	$3\frac{3}{4}$	3	$8\frac{1}{4}-\frac{1}{16}$	1	$6\frac{1}{2}$	4	5
1	$1\frac{1}{8}$	3	$0\frac{1}{16}$	1	$3\frac{7}{8}$	3	$8\frac{3}{4}$	1	$6\frac{5}{8}$	4	$5\frac{3}{8}$
1	$1\frac{1}{4}$	3	$0\frac{1}{2}$	1	4	3	$9\frac{1}{8}$	1	$6\frac{3}{4}$	4	$5\frac{3}{4}-\frac{1}{16}$
1	$1\frac{3}{8}$	3	$0\frac{7}{8}$	1	$4\frac{1}{8}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$6\frac{7}{8}$	4	$6\frac{1}{8}-\frac{1}{16}$
1	$1\frac{1}{2}$	3	$1\frac{1}{4}-\frac{1}{16}$	1	$4\frac{1}{4}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	7	4	$6\frac{1}{2}-\frac{1}{16}$
1	$1\frac{5}{8}$	3	$1\frac{5}{8}-\frac{1}{16}$	1	$4\frac{3}{8}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	$7\frac{1}{8}$	4	$6\frac{7}{8}-\frac{1}{16}$
1	$1\frac{3}{4}$	3	$2\frac{1}{16}$	1	$4\frac{1}{2}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$7\frac{1}{4}$	4	$7\frac{1}{4}-\frac{1}{16}$
1	$1\frac{7}{8}$	3	$2\frac{3}{8}-\frac{1}{16}$	1	$4\frac{5}{8}$	3	$11\frac{1}{16}$	1	$7\frac{3}{8}$	4	$7\frac{3}{4}$
1	2	3	$2\frac{3}{4}-\frac{1}{16}$	1	$4\frac{3}{4}$	3	$11\frac{1}{2}$	1	$7\frac{1}{2}$	4	$8\frac{1}{8}$
1	$2\frac{1}{8}$	3	$3\frac{1}{4}$	1	$4\frac{7}{8}$	3	$11\frac{7}{8}$	1	$7\frac{5}{8}$	4	$8\frac{1}{2}$
1	$2\frac{1}{4}$	3	$3\frac{5}{8}$	1	5	4	$0\frac{1}{2}$	1	$7\frac{3}{4}$	4	$8\frac{7}{8}-\frac{1}{16}$
1	$2\frac{3}{8}$	3	$4\frac{1}{16}$	1	$5\frac{1}{8}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$7\frac{7}{8}$	4	$9\frac{1}{4}-\frac{1}{16}$
1	$2\frac{1}{2}$	3	$4\frac{3}{8}-\frac{1}{16}$	1	$5\frac{1}{4}$	4	$1\frac{1}{16}$	1	8	4	$9\frac{5}{8}-\frac{1}{16}$
1	$2\frac{5}{8}$	3	$4\frac{3}{4}-\frac{1}{16}$	1	$5\frac{3}{8}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	$8\frac{1}{8}$	4	$10\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 163

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	8 $\frac{1}{4}$	4	10 $\frac{1}{2}$	2	0 $\frac{5}{8}$	6	0 $\frac{1}{4}$	2	5	7	2
1	8 $\frac{3}{8}$	4	10 $\frac{7}{8}$	2	0 $\frac{3}{4}$	6	0 $\frac{5}{8}$	2	5 $\frac{1}{8}$	7	2 $\frac{3}{8}$
1	8 $\frac{1}{2}$	4	11 $\frac{1}{4}$	2	0 $\frac{7}{8}$	6	1	2	5 $\frac{1}{4}$	7	2 $\frac{3}{4}$
1	8 $\frac{5}{8}$	4	11 $\frac{5}{8}$ - $\frac{1}{16}$	2	1	6	1 $\frac{3}{8}$	2	5 $\frac{3}{8}$	7	3 $\frac{1}{8}$
1	8 $\frac{3}{4}$	5	0 $\frac{1}{16}$	2	1 $\frac{1}{8}$	6	1 $\frac{3}{4}$ - $\frac{1}{16}$	2	5 $\frac{1}{2}$	7	3 $\frac{1}{2}$ - $\frac{1}{16}$
1	8 $\frac{7}{8}$	5	0 $\frac{3}{8}$ - $\frac{1}{16}$	2	1 $\frac{1}{4}$	6	2 $\frac{1}{8}$ - $\frac{1}{16}$	2	5 $\frac{5}{8}$	7	3 $\frac{7}{8}$ - $\frac{1}{16}$
1	9	5	0 $\frac{3}{4}$ - $\frac{1}{16}$	2	1 $\frac{3}{8}$	6	2 $\frac{1}{2}$ - $\frac{1}{16}$	2	5 $\frac{3}{4}$	7	4 $\frac{1}{4}$ - $\frac{1}{16}$
1	9 $\frac{1}{8}$	5	1 $\frac{1}{4}$	2	1 $\frac{1}{2}$	6	3	2	5 $\frac{7}{8}$	7	4 $\frac{3}{4}$
1	9 $\frac{1}{4}$	5	1 $\frac{5}{8}$	2	1 $\frac{5}{8}$	6	3 $\frac{3}{8}$	2	6	7	5 $\frac{1}{8}$
1	9 $\frac{3}{8}$	5	2	2	1 $\frac{3}{4}$	6	3 $\frac{3}{4}$	2	6 $\frac{1}{8}$	7	5 $\frac{1}{2}$
1	9 $\frac{1}{2}$	5	2 $\frac{3}{8}$ - $\frac{1}{16}$	2	1 $\frac{7}{8}$	6	4 $\frac{1}{8}$	2	6 $\frac{1}{4}$	7	5 $\frac{7}{8}$
1	9 $\frac{5}{8}$	5	2 $\frac{3}{4}$ - $\frac{1}{16}$	2	2	6	4 $\frac{1}{2}$ - $\frac{1}{16}$	2	6 $\frac{3}{8}$	7	6 $\frac{1}{4}$ - $\frac{1}{16}$
1	9 $\frac{3}{4}$	5	3 $\frac{1}{8}$ - $\frac{1}{16}$	2	2 $\frac{1}{8}$	6	4 $\frac{7}{8}$ - $\frac{1}{16}$	2	6 $\frac{1}{2}$	7	6 $\frac{5}{8}$ - $\frac{1}{16}$
1	9 $\frac{7}{8}$	5	3 $\frac{1}{2}$ - $\frac{1}{16}$	2	2 $\frac{1}{4}$	6	5 $\frac{1}{4}$ - $\frac{1}{16}$	2	6 $\frac{5}{8}$	7	7 $\frac{1}{16}$
1	10	5	4	2	2 $\frac{3}{8}$	6	5 $\frac{3}{4}$	2	6 $\frac{3}{4}$	7	7 $\frac{3}{8}$ - $\frac{1}{16}$
1	10 $\frac{1}{8}$	5	4 $\frac{3}{8}$	2	2 $\frac{1}{2}$	6	6 $\frac{1}{8}$	2	6 $\frac{7}{8}$	7	7 $\frac{7}{8}$
1	10 $\frac{1}{4}$	5	4 $\frac{3}{4}$	2	2 $\frac{5}{8}$	6	6 $\frac{1}{2}$	2	7	7	8 $\frac{1}{4}$
1	10 $\frac{3}{8}$	5	5 $\frac{1}{8}$ - $\frac{1}{16}$	2	2 $\frac{3}{4}$	6	6 $\frac{7}{8}$ - $\frac{1}{16}$	2	7 $\frac{1}{8}$	7	8 $\frac{5}{8}$
1	10 $\frac{1}{2}$	5	5 $\frac{1}{2}$ - $\frac{1}{16}$	2	2 $\frac{7}{8}$	6	7 $\frac{1}{4}$ - $\frac{1}{16}$	2	7 $\frac{1}{4}$	7	9 $\frac{1}{16}$
1	10 $\frac{5}{8}$	5	5 $\frac{7}{8}$ - $\frac{1}{16}$	2	3	6	7 $\frac{3}{4}$	2	7 $\frac{3}{8}$	7	9 $\frac{3}{8}$ - $\frac{1}{16}$
1	10 $\frac{3}{4}$	5	6 $\frac{1}{4}$ - $\frac{1}{16}$	2	3 $\frac{1}{8}$	6	8 $\frac{1}{8}$	2	7 $\frac{1}{2}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$
1	10 $\frac{7}{8}$	5	6 $\frac{3}{4}$	2	3 $\frac{1}{4}$	6	8 $\frac{1}{2}$	2	7 $\frac{5}{8}$	7	10 $\frac{1}{4}$
1	11	5	7 $\frac{1}{8}$	2	3 $\frac{3}{8}$	6	8 $\frac{7}{8}$	2	7 $\frac{3}{4}$	7	10 $\frac{5}{8}$
1	11 $\frac{1}{8}$	5	7 $\frac{1}{2}$	2	3 $\frac{1}{2}$	6	9 $\frac{1}{4}$	2	7 $\frac{7}{8}$	7	11
1	11 $\frac{1}{4}$	5	7 $\frac{7}{8}$	2	3 $\frac{5}{8}$	6	9 $\frac{5}{8}$ - $\frac{1}{16}$	2	8	7	11 $\frac{3}{8}$
1	11 $\frac{3}{8}$	5	8 $\frac{1}{4}$ - $\frac{1}{16}$	2	3 $\frac{3}{4}$	6	10 $\frac{1}{16}$	2	8 $\frac{1}{8}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$
1	11 $\frac{1}{2}$	5	8 $\frac{5}{8}$ - $\frac{1}{16}$	2	3 $\frac{7}{8}$	6	10 $\frac{3}{8}$ - $\frac{1}{16}$	2	8 $\frac{1}{4}$	8	0 $\frac{1}{8}$ - $\frac{1}{16}$
1	11 $\frac{5}{8}$	5	9 $\frac{1}{16}$	2	4	6	10 $\frac{3}{4}$ - $\frac{1}{16}$	2	8 $\frac{3}{8}$	8	0 $\frac{1}{2}$ - $\frac{1}{16}$
1	11 $\frac{3}{4}$	5	9 $\frac{1}{2}$	2	4 $\frac{1}{8}$	6	11 $\frac{1}{4}$	2	8 $\frac{1}{2}$	8	1
1	11 $\frac{7}{8}$	5	9 $\frac{7}{8}$	2	4 $\frac{1}{4}$	6	11 $\frac{5}{8}$	2	8 $\frac{5}{8}$	8	1 $\frac{3}{8}$
2	0	5	10 $\frac{1}{4}$	2	4 $\frac{3}{8}$	7	0	2	8 $\frac{3}{4}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$
2	0 $\frac{1}{8}$	5	10 $\frac{5}{8}$	2	4 $\frac{1}{2}$	7	0 $\frac{3}{8}$ - $\frac{1}{16}$	2	8 $\frac{7}{8}$	8	2 $\frac{1}{8}$ - $\frac{1}{16}$
2	0 $\frac{1}{4}$	5	11 $\frac{1}{16}$	2	4 $\frac{5}{8}$	7	0 $\frac{3}{4}$ - $\frac{1}{16}$	2	9	8	2 $\frac{1}{2}$ - $\frac{1}{16}$
2	0 $\frac{3}{8}$	5	11 $\frac{3}{8}$ - $\frac{1}{16}$	2	4 $\frac{3}{4}$	7	1 $\frac{1}{8}$ - $\frac{1}{16}$	2	9 $\frac{1}{8}$	8	3
2	0 $\frac{1}{2}$	5	11 $\frac{3}{4}$ - $\frac{1}{16}$	2	4 $\frac{7}{8}$	7	1 $\frac{1}{2}$ - $\frac{1}{16}$	2	9 $\frac{1}{4}$	8	3 $\frac{3}{8}$

# 164      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	$9\frac{3}{8}$	8	$3\frac{3}{4}$	3	$1\frac{3}{4}$	9	$5\frac{1}{2}$	3	$6\frac{1}{8}$	10	$7\frac{1}{8}-\frac{1}{16}$
2	$9\frac{1}{2}$	8	$4\frac{1}{8}$	3	$1\frac{7}{8}$	9	$5\frac{7}{8}$	3	$6\frac{1}{4}$	10	$7\frac{3}{8}$
2	$9\frac{5}{8}$	8	$4\frac{1}{2}$	3	2	9	$6\frac{1}{4}-\frac{1}{16}$	3	$6\frac{3}{8}$	10	8
2	$9\frac{3}{4}$	8	$4\frac{7}{8}$	3	$2\frac{1}{8}$	9	$6\frac{5}{8}-\frac{1}{16}$	3	$6\frac{1}{2}$	10	$8\frac{3}{8}$
2	$9\frac{7}{8}$	8	$5\frac{1}{4}-\frac{1}{16}$	3	$2\frac{1}{4}$	9	$7\frac{1}{16}$	3	$6\frac{5}{8}$	10	$8\frac{3}{4}-\frac{1}{16}$
2	10	8	$5\frac{5}{8}-\frac{1}{16}$	3	$2\frac{3}{8}$	9	$7\frac{3}{8}-\frac{1}{16}$	3	$6\frac{3}{4}$	10	$9\frac{1}{8}-\frac{1}{16}$
2	$10\frac{1}{8}$	8	$6\frac{1}{16}$	3	$2\frac{1}{2}$	9	$7\frac{3}{4}-\frac{1}{16}$	3	$6\frac{7}{8}$	10	$9\frac{5}{8}$
2	$10\frac{1}{4}$	8	$6\frac{1}{2}$	3	$2\frac{5}{8}$	9	$8\frac{1}{8}-\frac{1}{16}$	3	7	10	10
2	$10\frac{3}{8}$	8	$6\frac{7}{8}$	3	$2\frac{3}{4}$	9	$8\frac{1}{2}-\frac{1}{16}$	3	$7\frac{1}{8}$	10	$10\frac{3}{8}$
2	$10\frac{1}{2}$	8	$7\frac{1}{4}-\frac{1}{16}$	3	$2\frac{7}{8}$	9	9	3	$7\frac{1}{4}$	10	$10\frac{3}{4}-\frac{1}{16}$
2	$10\frac{5}{8}$	8	$7\frac{5}{8}-\frac{1}{16}$	3	3	9	$9\frac{3}{8}$	3	$7\frac{3}{8}$	10	$11\frac{1}{8}-\frac{1}{16}$
2	$10\frac{3}{4}$	8	$8\frac{1}{16}$	3	$3\frac{1}{8}$	9	$9\frac{3}{4}-\frac{1}{16}$	3	$7\frac{1}{2}$	10	$11\frac{1}{2}-\frac{1}{16}$
2	$10\frac{7}{8}$	8	$8\frac{1}{2}$	3	$3\frac{1}{4}$	9	$10\frac{1}{8}-\frac{1}{16}$	3	$7\frac{5}{8}$	10	$11\frac{7}{8}-\frac{1}{16}$
2	11	8	$8\frac{7}{8}$	3	$3\frac{3}{8}$	9	$10\frac{1}{2}-\frac{1}{16}$	3	$7\frac{3}{4}$	11	$0\frac{1}{4}-\frac{1}{16}$
2	$11\frac{1}{8}$	8	$9\frac{1}{4}$	3	$3\frac{1}{2}$	9	11	3	$7\frac{7}{8}$	11	$0\frac{5}{8}-\frac{1}{16}$
2	$11\frac{1}{4}$	8	$9\frac{5}{8}$	3	$3\frac{5}{8}$	9	$11\frac{3}{8}$	3	8	11	$1\frac{1}{16}$
2	$11\frac{3}{8}$	8	10	3	$3\frac{3}{4}$	9	$11\frac{3}{4}-\frac{1}{16}$	3	$8\frac{1}{8}$	11	$1\frac{1}{2}$
2	$11\frac{1}{2}$	8	$10\frac{3}{8}$	3	$3\frac{7}{8}$	10	$0\frac{1}{8}-\frac{1}{16}$	3	$8\frac{1}{4}$	11	$1\frac{7}{8}$
2	$11\frac{5}{8}$	8	$10\frac{3}{4}-\frac{1}{16}$	3	4	10	$0\frac{1}{2}-\frac{1}{16}$	3	$8\frac{3}{8}$	11	$2\frac{1}{4}-\frac{1}{16}$
2	$11\frac{3}{4}$	8	$11\frac{1}{8}$	3	$4\frac{1}{8}$	10	1	3	$8\frac{1}{2}$	11	$2\frac{5}{8}-\frac{1}{16}$
2	$11\frac{7}{8}$	8	$11\frac{5}{8}$	3	$4\frac{1}{4}$	10	$1\frac{3}{8}$	3	$8\frac{5}{8}$	11	$3\frac{1}{16}$
3	0	9	0	3	$4\frac{3}{8}$	10	$1\frac{3}{4}$	3	$8\frac{3}{4}$	11	$3\frac{1}{2}$
3	$0\frac{1}{8}$	9	$0\frac{3}{8}$	3	$4\frac{1}{2}$	10	$2\frac{1}{8}$	3	$8\frac{7}{8}$	11	$3\frac{7}{8}$
3	$0\frac{1}{4}$	9	$0\frac{3}{4}-\frac{1}{16}$	3	$4\frac{5}{8}$	10	$2\frac{1}{2}$	3	9	11	$4\frac{1}{4}-\frac{1}{16}$
3	$0\frac{3}{8}$	9	$1\frac{1}{8}-\frac{1}{16}$	3	$4\frac{3}{4}$	10	$2\frac{7}{8}$	3	$9\frac{1}{8}$	11	$4\frac{5}{8}-\frac{1}{16}$
3	$0\frac{1}{2}$	9	$1\frac{5}{8}$	3	$4\frac{7}{8}$	10	$3\frac{1}{4}-\frac{1}{16}$	3	$9\frac{1}{4}$	11	$5\frac{1}{16}$
3	$0\frac{5}{8}$	9	2	3	5	10	$3\frac{5}{8}-\frac{1}{16}$	3	$9\frac{3}{8}$	11	$5\frac{3}{8}-\frac{1}{16}$
3	$0\frac{3}{4}$	9	$2\frac{3}{8}$	3	$5\frac{1}{8}$	10	$4\frac{1}{8}$	3	$9\frac{1}{2}$	11	$5\frac{3}{4}-\frac{1}{16}$
3	$0\frac{7}{8}$	9	$2\frac{3}{4}$	3	$5\frac{1}{4}$	10	$4\frac{1}{2}$	3	$9\frac{5}{8}$	11	$6\frac{1}{8}-\frac{1}{16}$
3	1	9	$3\frac{1}{8}$	3	$5\frac{3}{8}$	10	$4\frac{7}{8}$	3	$9\frac{3}{4}$	11	$6\frac{1}{2}-\frac{1}{16}$
3	$1\frac{1}{8}$	9	$3\frac{1}{2}$	3	$5\frac{1}{2}$	10	$5\frac{1}{4}-\frac{1}{16}$	3	$9\frac{7}{8}$	11	7
3	$1\frac{1}{4}$	9	$3\frac{7}{8}$	3	$5\frac{5}{8}$	10	$5\frac{5}{8}-\frac{1}{16}$	3	10	11	$7\frac{3}{8}$
3	$1\frac{3}{8}$	9	$4\frac{1}{4}-\frac{1}{16}$	3	$5\frac{3}{4}$	10	$6\frac{1}{16}$	3	$10\frac{1}{8}$	11	$7\frac{3}{4}-\frac{1}{16}$
3	$1\frac{1}{2}$	9	$4\frac{5}{8}-\frac{1}{16}$	3	$5\frac{7}{8}$	10	$6\frac{3}{8}-\frac{1}{16}$	3	$10\frac{1}{4}$	11	$8\frac{1}{8}-\frac{1}{16}$
3	$1\frac{5}{8}$	9	$5\frac{1}{16}$	3	6	10	$6\frac{3}{4}-\frac{1}{16}$	3	$10\frac{3}{8}$	11	$8\frac{1}{2}-\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE INSIDE). 165

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	10 $\frac{1}{2}$	11	9	4	2 $\frac{7}{8}$	12	10 $\frac{5}{8}$ - $\frac{1}{16}$	4	7 $\frac{1}{4}$	14	0 $\frac{1}{2}$
3	10 $\frac{5}{8}$	11	9 $\frac{3}{8}$	4	3	12	11 $\frac{1}{16}$	4	7 $\frac{3}{8}$	14	0 $\frac{7}{8}$
3	10 $\frac{3}{4}$	11	9 $\frac{3}{4}$ - $\frac{1}{16}$	4	3 $\frac{1}{8}$	12	11 $\frac{1}{2}$	4	7 $\frac{1}{2}$	14	1 $\frac{1}{4}$
3	10 $\frac{7}{8}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$	4	3 $\frac{1}{4}$	12	11 $\frac{7}{8}$	4	7 $\frac{5}{8}$	14	1 $\frac{5}{8}$
3	11	11	10 $\frac{1}{2}$ - $\frac{1}{16}$	4	3 $\frac{3}{8}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$	4	7 $\frac{3}{4}$	14	2
3	11 $\frac{1}{8}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$	4	3 $\frac{1}{2}$	13	0 $\frac{5}{8}$ - $\frac{1}{16}$	4	7 $\frac{7}{8}$	14	2 $\frac{3}{8}$
3	11 $\frac{1}{4}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	3 $\frac{5}{8}$	13	1 $\frac{1}{16}$	4	8	14	2 $\frac{3}{4}$ - $\frac{1}{16}$
3	11 $\frac{3}{8}$	11	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	3 $\frac{3}{4}$	13	1 $\frac{1}{2}$	4	8 $\frac{1}{8}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$
3	11 $\frac{1}{2}$	12	0 $\frac{1}{16}$	4	3 $\frac{7}{8}$	13	1 $\frac{7}{8}$	4	8 $\frac{1}{4}$	14	3 $\frac{1}{2}$ - $\frac{1}{16}$
3	11 $\frac{5}{8}$	12	0 $\frac{1}{2}$	4	4	13	2 $\frac{1}{4}$ - $\frac{1}{16}$	4	8 $\frac{3}{8}$	14	4
3	11 $\frac{3}{4}$	12	0 $\frac{7}{8}$	4	4 $\frac{1}{8}$	13	2 $\frac{5}{8}$ - $\frac{1}{16}$	4	8 $\frac{1}{2}$	14	4 $\frac{3}{8}$
3	11 $\frac{7}{8}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$	4	4 $\frac{1}{4}$	13	3 $\frac{1}{16}$	4	8 $\frac{5}{8}$	14	4 $\frac{3}{4}$ - $\frac{1}{16}$
4	0	12	1 $\frac{5}{8}$ - $\frac{1}{16}$	4	4 $\frac{3}{8}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$	4	8 $\frac{3}{4}$	14	5 $\frac{1}{8}$ - $\frac{1}{16}$
4	0 $\frac{1}{8}$	12	2 $\frac{1}{16}$	4	4 $\frac{1}{2}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$	4	8 $\frac{7}{8}$	14	5 $\frac{1}{2}$ - $\frac{1}{16}$
4	0 $\frac{1}{4}$	12	2 $\frac{1}{2}$	4	4 $\frac{5}{8}$	13	4 $\frac{1}{8}$ - $\frac{1}{16}$	4	9	14	6
4	0 $\frac{3}{8}$	12	2 $\frac{7}{8}$	4	4 $\frac{3}{4}$	13	4 $\frac{1}{2}$ - $\frac{1}{16}$	4	9 $\frac{1}{8}$	14	6 $\frac{3}{8}$
4	0 $\frac{1}{2}$	12	3 $\frac{1}{4}$ - $\frac{1}{16}$	4	4 $\frac{7}{8}$	13	5	4	9 $\frac{1}{4}$	14	6 $\frac{3}{4}$
4	0 $\frac{5}{8}$	12	3 $\frac{5}{8}$ - $\frac{1}{16}$	4	5	13	5 $\frac{3}{8}$	4	9 $\frac{3}{8}$	14	7 $\frac{1}{8}$
4	0 $\frac{3}{4}$	12	4 $\frac{1}{16}$	4	5 $\frac{1}{8}$	13	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	9 $\frac{1}{2}$	14	7 $\frac{1}{2}$
4	0 $\frac{7}{8}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$	4	5 $\frac{1}{4}$	13	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	9 $\frac{5}{8}$	14	7 $\frac{7}{8}$
4	1	12	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	5 $\frac{3}{8}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	9 $\frac{3}{4}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$
4	1 $\frac{1}{8}$	12	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	5 $\frac{1}{2}$	13	7	4	9 $\frac{7}{8}$	14	8 $\frac{5}{8}$ - $\frac{1}{16}$
4	1 $\frac{1}{4}$	12	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	5 $\frac{5}{8}$	13	7 $\frac{3}{8}$	4	10	14	9 $\frac{1}{8}$
4	1 $\frac{3}{8}$	12	6	4	5 $\frac{3}{4}$	13	7 $\frac{3}{4}$	4	10 $\frac{1}{8}$	14	9 $\frac{1}{2}$
4	1 $\frac{1}{2}$	12	6 $\frac{3}{8}$	4	5 $\frac{7}{8}$	13	8 $\frac{1}{8}$	4	10 $\frac{1}{4}$	14	9 $\frac{7}{8}$
4	1 $\frac{5}{8}$	12	6 $\frac{3}{4}$ - $\frac{1}{16}$	4	6	13	8 $\frac{1}{2}$	4	10 $\frac{3}{8}$	14	10 $\frac{1}{4}$
4	1 $\frac{3}{4}$	12	7 $\frac{1}{8}$ - $\frac{1}{16}$	4	6 $\frac{1}{8}$	13	8 $\frac{7}{8}$	4	10 $\frac{1}{2}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$
4	1 $\frac{7}{8}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$	4	6 $\frac{1}{4}$	13	9 $\frac{1}{4}$ - $\frac{1}{16}$	4	10 $\frac{5}{8}$	14	11 $\frac{1}{8}$
4	2	12	8	4	6 $\frac{3}{8}$	13	9 $\frac{5}{8}$ - $\frac{1}{16}$	4	10 $\frac{3}{4}$	14	11 $\frac{1}{2}$
4	2 $\frac{1}{8}$	12	8 $\frac{3}{8}$	4	6 $\frac{1}{2}$	13	10 $\frac{1}{16}$	4	10 $\frac{7}{8}$	14	11 $\frac{7}{8}$
4	2 $\frac{1}{4}$	12	8 $\frac{3}{4}$ - $\frac{1}{16}$	4	6 $\frac{5}{8}$	13	10 $\frac{1}{2}$	4	11	15	0 $\frac{1}{4}$
4	2 $\frac{3}{8}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$	4	6 $\frac{3}{4}$	13	10 $\frac{7}{8}$	4	11 $\frac{1}{8}$	15	0 $\frac{5}{8}$
4	2 $\frac{1}{2}$	12	9 $\frac{1}{2}$ - $\frac{1}{16}$	4	6 $\frac{7}{8}$	13	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	11 $\frac{1}{4}$	15	1
4	2 $\frac{5}{8}$	12	9 $\frac{7}{8}$ - $\frac{1}{16}$	4	7	13	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	11 $\frac{3}{8}$	15	1 $\frac{3}{8}$
4	2 $\frac{3}{4}$	12	10 $\frac{1}{4}$ - $\frac{1}{16}$	4	7 $\frac{1}{8}$	14	0 $\frac{1}{16}$	4	11 $\frac{1}{2}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$

166 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}-\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	11 $\frac{5}{8}$	15	2 $\frac{1}{8}-\frac{1}{16}$	5	4	16	4	5	8 $\frac{3}{8}$	17	5 $\frac{5}{8}-\frac{1}{16}$
4	11 $\frac{3}{4}$	15	2 $\frac{1}{2}-\frac{1}{16}$	5	4 $\frac{1}{8}$	16	4 $\frac{3}{8}$	5	8 $\frac{1}{2}$	17	6 $\frac{1}{8}$
4	11 $\frac{1}{8}$	15	3	5	4 $\frac{1}{4}$	16	4 $\frac{3}{4}$	5	8 $\frac{5}{8}$	17	6 $\frac{1}{2}$
5	0	15	3 $\frac{3}{8}$	5	4 $\frac{3}{8}$	16	5 $\frac{1}{8}$	5	8 $\frac{3}{4}$	17	6 $\frac{7}{8}$
5	0 $\frac{1}{8}$	15	3 $\frac{3}{4}-\frac{1}{16}$	5	4 $\frac{1}{2}$	16	5 $\frac{1}{2}$	5	8 $\frac{7}{8}$	17	7 $\frac{1}{4}$
5	0 $\frac{1}{4}$	15	4 $\frac{1}{8}-\frac{1}{16}$	5	4 $\frac{5}{8}$	16	5 $\frac{7}{8}$	5	9	17	7 $\frac{5}{8}-\frac{1}{16}$
5	0 $\frac{3}{8}$	15	4 $\frac{1}{2}-\frac{1}{16}$	5	4 $\frac{3}{4}$	16	6 $\frac{1}{4}-\frac{1}{16}$	5	9 $\frac{1}{8}$	17	8 $\frac{1}{8}$
5	0 $\frac{1}{2}$	15	5	5	4 $\frac{7}{8}$	16	6 $\frac{5}{8}-\frac{1}{16}$	5	9 $\frac{1}{4}$	17	8 $\frac{1}{2}$
5	0 $\frac{5}{8}$	15	5 $\frac{3}{8}$	5	5	16	7 $\frac{1}{8}$	5	9 $\frac{3}{8}$	17	8 $\frac{7}{8}$
5	0 $\frac{3}{4}$	15	5 $\frac{3}{4}$	5	5 $\frac{1}{8}$	16	7 $\frac{1}{2}$	5	9 $\frac{1}{2}$	17	9 $\frac{1}{4}$
5	0 $\frac{7}{8}$	15	6 $\frac{1}{8}$	5	5 $\frac{1}{4}$	16	7 $\frac{7}{8}$	5	9 $\frac{5}{8}$	17	9 $\frac{3}{8}$
5	1	15	6 $\frac{1}{2}$	5	5 $\frac{3}{8}$	16	8 $\frac{1}{4}-\frac{1}{16}$	5	9 $\frac{3}{4}$	17	10
5	1 $\frac{1}{8}$	15	6 $\frac{7}{8}$	5	5 $\frac{1}{2}$	16	8 $\frac{5}{8}-\frac{1}{16}$	5	9 $\frac{7}{8}$	17	10 $\frac{3}{8}$
5	1 $\frac{1}{4}$	15	7 $\frac{1}{4}-\frac{1}{16}$	5	5 $\frac{5}{8}$	16	9 $\frac{1}{8}$	5	10	17	10 $\frac{3}{4}-\frac{1}{16}$
5	1 $\frac{3}{8}$	15	7 $\frac{5}{8}-\frac{1}{16}$	5	5 $\frac{3}{4}$	16	9 $\frac{1}{2}$	5	10 $\frac{1}{8}$	17	11 $\frac{1}{8}-\frac{1}{16}$
5	1 $\frac{1}{2}$	15	8 $\frac{1}{8}$	5	5 $\frac{7}{8}$	16	9 $\frac{7}{8}$	5	10 $\frac{1}{4}$	17	11 $\frac{1}{2}-\frac{1}{16}$
5	1 $\frac{5}{8}$	15	8 $\frac{1}{2}$	5	6	16	10 $\frac{1}{4}$	5	10 $\frac{3}{8}$	18	0
5	1 $\frac{3}{4}$	15	8 $\frac{7}{8}$	5	6 $\frac{1}{8}$	16	10 $\frac{5}{8}$	5	10 $\frac{1}{2}$	18	0 $\frac{3}{8}$
5	1 $\frac{7}{8}$	15	9 $\frac{1}{4}-\frac{1}{16}$	5	6 $\frac{1}{4}$	16	11	5	10 $\frac{5}{8}$	18	0 $\frac{3}{4}-\frac{1}{16}$
5	2	15	9 $\frac{5}{8}-\frac{1}{16}$	5	6 $\frac{3}{8}$	16	11 $\frac{3}{8}$	5	10 $\frac{3}{4}$	18	1 $\frac{1}{8}-\frac{1}{16}$
5	2 $\frac{1}{8}$	15	10 $\frac{1}{16}$	5	6 $\frac{1}{2}$	16	11 $\frac{3}{4}-\frac{1}{16}$	5	10 $\frac{7}{8}$	18	1 $\frac{1}{2}-\frac{1}{16}$
5	2 $\frac{1}{4}$	15	10 $\frac{1}{2}$	5	6 $\frac{5}{8}$	17	0 $\frac{1}{8}-\frac{1}{16}$	5	11	18	1 $\frac{7}{8}-\frac{1}{16}$
5	2 $\frac{3}{8}$	15	10 $\frac{7}{8}$	5	6 $\frac{3}{4}$	17	0 $\frac{1}{2}-\frac{1}{16}$	5	11 $\frac{1}{8}$	18	2 $\frac{1}{4}-\frac{1}{16}$
5	2 $\frac{1}{2}$	15	11 $\frac{1}{4}$	5	6 $\frac{7}{8}$	17	1	5	11 $\frac{1}{4}$	18	2 $\frac{5}{8}-\frac{1}{16}$
5	2 $\frac{5}{8}$	15	11 $\frac{5}{8}$	5	7	17	1 $\frac{3}{8}$	5	11 $\frac{3}{8}$	18	3 $\frac{1}{8}$
5	2 $\frac{3}{4}$	16	0	5	7 $\frac{1}{8}$	17	1 $\frac{3}{4}-\frac{1}{16}$	5	11 $\frac{1}{2}$	18	3 $\frac{1}{2}$
5	2 $\frac{7}{8}$	16	0 $\frac{3}{8}$	5	7 $\frac{1}{4}$	17	2 $\frac{1}{8}-\frac{1}{16}$	5	11 $\frac{5}{8}$	18	3 $\frac{7}{8}$
5	3	16	0 $\frac{3}{4}-\frac{1}{16}$	5	7 $\frac{3}{8}$	17	2 $\frac{1}{2}-\frac{1}{16}$	5	11 $\frac{3}{4}$	18	4 $\frac{1}{4}-\frac{1}{16}$
5	3 $\frac{1}{8}$	16	1 $\frac{1}{8}-\frac{1}{16}$	5	7 $\frac{1}{2}$	17	3	5	11 $\frac{7}{8}$	18	4 $\frac{5}{8}-\frac{1}{16}$
5	3 $\frac{1}{4}$	16	1 $\frac{1}{2}-\frac{1}{16}$	5	7 $\frac{5}{8}$	17	3 $\frac{3}{8}$	6	0	18	5 $\frac{1}{8}$
5	3 $\frac{3}{8}$	16	2	5	7 $\frac{3}{4}$	17	3 $\frac{3}{4}$	6	0 $\frac{1}{8}$	18	5 $\frac{1}{2}$
5	3 $\frac{1}{2}$	16	2 $\frac{3}{8}$	5	7 $\frac{7}{8}$	17	4 $\frac{1}{8}$	6	0 $\frac{1}{4}$	18	5 $\frac{7}{8}$
5	3 $\frac{5}{8}$	16	2 $\frac{3}{4}-\frac{1}{16}$	5	8	17	4 $\frac{1}{2}$	6	0 $\frac{3}{8}$	18	6 $\frac{1}{4}-\frac{1}{16}$
5	3 $\frac{3}{4}$	16	3 $\frac{1}{8}-\frac{1}{16}$	5	8 $\frac{1}{8}$	17	4 $\frac{7}{8}$	6	0 $\frac{1}{2}$	18	6 $\frac{5}{8}-\frac{1}{16}$
5	3 $\frac{7}{8}$	16	3 $\frac{1}{2}-\frac{1}{16}$	5	8 $\frac{1}{4}$	17	5 $\frac{1}{4}$	6	0 $\frac{5}{8}$	18	7 $\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 167.

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	0 $\frac{3}{4}$	18	7 $\frac{3}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{8}$	19	9 $\frac{1}{8}$ - $\frac{1}{16}$	6	9 $\frac{1}{2}$	20	10 $\frac{7}{8}$
6	0 $\frac{7}{8}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{1}{4}$	19	9 $\frac{1}{2}$ - $\frac{1}{16}$	6	9 $\frac{5}{8}$	20	11 $\frac{1}{4}$ - $\frac{1}{16}$
6	1	18	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{3}{8}$	19	10	6	9 $\frac{3}{4}$	20	11 $\frac{5}{8}$ - $\frac{1}{16}$
6	1 $\frac{1}{8}$	18	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{1}{2}$	19	10 $\frac{3}{8}$	6	9 $\frac{7}{8}$	21	0 $\frac{1}{8}$
6	1 $\frac{1}{4}$	18	9	6	5 $\frac{5}{8}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	10	21	0 $\frac{1}{2}$
6	1 $\frac{3}{8}$	18	9 $\frac{3}{8}$	6	5 $\frac{3}{4}$	19	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	10 $\frac{1}{8}$	21	0 $\frac{7}{8}$
6	1 $\frac{1}{2}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{7}{8}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	10 $\frac{1}{4}$	21	1 $\frac{1}{4}$ - $\frac{1}{16}$
6	1 $\frac{5}{8}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$	6	6	19	11 $\frac{7}{8}$ - $\frac{1}{16}$	6	10 $\frac{3}{8}$	21	1 $\frac{5}{8}$ - $\frac{1}{16}$
6	1 $\frac{3}{4}$	18	10 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{1}{8}$	20	0 $\frac{1}{4}$ - $\frac{1}{16}$	6	10 $\frac{1}{2}$	21	2 $\frac{1}{8}$
6	1 $\frac{7}{8}$	18	11	6	6 $\frac{1}{4}$	20	0 $\frac{5}{8}$ - $\frac{1}{16}$	6	10 $\frac{3}{8}$	21	2 $\frac{1}{2}$
6	2	18	11 $\frac{3}{8}$	6	6 $\frac{3}{8}$	20	1 $\frac{1}{8}$	6	10 $\frac{3}{4}$	21	2 $\frac{7}{8}$
6	2 $\frac{1}{8}$	18	11 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{1}{2}$	20	1 $\frac{1}{2}$	6	10 $\frac{7}{8}$	21	3 $\frac{1}{4}$
6	2 $\frac{1}{4}$	19	0 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{5}{8}$	20	1 $\frac{7}{8}$	6	11	21	3 $\frac{5}{8}$
6	2 $\frac{3}{8}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{3}{4}$	20	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	11 $\frac{1}{8}$	21	4
6	2 $\frac{1}{2}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$	6	6 $\frac{7}{8}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	11 $\frac{1}{4}$	21	4 $\frac{3}{8}$
6	2 $\frac{5}{8}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	7	20	3 $\frac{1}{8}$	6	11 $\frac{3}{8}$	21	4 $\frac{3}{4}$ - $\frac{1}{16}$
6	2 $\frac{3}{4}$	19	1 $\frac{5}{8}$ - $\frac{1}{16}$	6	7 $\frac{1}{8}$	20	3 $\frac{1}{2}$	6	11 $\frac{1}{2}$	21	5 $\frac{1}{8}$ - $\frac{1}{16}$
6	2 $\frac{7}{8}$	19	2 $\frac{1}{8}$	6	7 $\frac{1}{4}$	20	3 $\frac{7}{8}$	6	11 $\frac{5}{8}$	21	5 $\frac{1}{2}$ - $\frac{1}{16}$
6	3	19	2 $\frac{1}{2}$	6	7 $\frac{3}{8}$	20	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	11 $\frac{3}{4}$	21	6
6	3 $\frac{1}{8}$	19	2 $\frac{7}{8}$	6	7 $\frac{1}{2}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	11 $\frac{7}{8}$	21	6 $\frac{3}{8}$
6	3 $\frac{1}{4}$	19	3 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{5}{8}$	20	5 $\frac{1}{16}$	7	0	21	6 $\frac{3}{4}$ - $\frac{1}{16}$
6	3 $\frac{3}{8}$	19	3 $\frac{5}{8}$ - $\frac{1}{16}$	6	7 $\frac{3}{4}$	20	5 $\frac{3}{8}$ - $\frac{1}{16}$	7	0 $\frac{1}{8}$	21	7 $\frac{1}{8}$ - $\frac{1}{16}$
6	3 $\frac{1}{2}$	19	4 $\frac{1}{8}$	6	7 $\frac{7}{8}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$	7	0 $\frac{1}{4}$	21	7 $\frac{1}{2}$ - $\frac{1}{16}$
6	3 $\frac{5}{8}$	19	4 $\frac{1}{2}$	6	8	20	6 $\frac{1}{8}$ - $\frac{1}{16}$	7	0 $\frac{3}{8}$	21	8
6	3 $\frac{3}{4}$	19	4 $\frac{7}{8}$	6	8 $\frac{1}{8}$	20	6 $\frac{1}{2}$ - $\frac{1}{16}$	7	0 $\frac{1}{2}$	21	8 $\frac{3}{8}$
6	3 $\frac{7}{8}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{1}{4}$	20	7	7	0 $\frac{5}{8}$	21	8 $\frac{3}{4}$
6	4	19	5 $\frac{5}{8}$ - $\frac{1}{16}$	6	8 $\frac{3}{8}$	20	7 $\frac{3}{8}$	7	0 $\frac{3}{4}$	21	9 $\frac{1}{8}$
6	4 $\frac{1}{8}$	19	6 $\frac{1}{16}$	6	8 $\frac{1}{2}$	20	7 $\frac{3}{4}$ - $\frac{1}{16}$	7	0 $\frac{7}{8}$	21	9 $\frac{1}{2}$
6	4 $\frac{1}{4}$	19	6 $\frac{3}{8}$ - $\frac{1}{16}$	6	8 $\frac{5}{8}$	20	8 $\frac{1}{8}$ - $\frac{1}{16}$	7	1	21	9 $\frac{7}{8}$
6	4 $\frac{3}{8}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$	6	8 $\frac{3}{4}$	20	8 $\frac{1}{2}$ - $\frac{1}{16}$	7	1 $\frac{1}{8}$	21	10 $\frac{1}{4}$ - $\frac{1}{16}$
6	4 $\frac{1}{2}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$	6	8 $\frac{7}{8}$	20	9	7	1 $\frac{1}{4}$	21	10 $\frac{5}{8}$ - $\frac{1}{16}$
6	4 $\frac{5}{8}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$	6	9	20	9 $\frac{3}{8}$	7	1 $\frac{3}{8}$	21	11 $\frac{1}{8}$
6	4 $\frac{3}{4}$	19	8	6	9 $\frac{1}{8}$	20	9 $\frac{3}{4}$	7	1 $\frac{1}{2}$	21	11 $\frac{1}{2}$
6	4 $\frac{7}{8}$	19	8 $\frac{3}{8}$	6	9 $\frac{1}{4}$	20	10 $\frac{1}{8}$	7	1 $\frac{5}{8}$	21	11 $\frac{7}{8}$
6	5	19	8 $\frac{3}{4}$ - $\frac{1}{16}$	6	9 $\frac{3}{8}$	20	10 $\frac{1}{2}$	7	1 $\frac{3}{4}$	22	0 $\frac{1}{4}$ - $\frac{1}{16}$

# 168      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	$1\frac{7}{8}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	$6\frac{1}{4}$	23	$2\frac{3}{8}$	7	$10\frac{5}{8}$	24	$4\frac{1}{8}-\frac{1}{16}$
7	2	22	$1\frac{1}{8}$	7	$6\frac{3}{8}$	23	$2\frac{3}{4}-\frac{1}{16}$	7	$10\frac{3}{4}$	24	$4\frac{1}{2}-\frac{1}{16}$
7	$2\frac{1}{8}$	22	$1\frac{1}{2}$	7	$6\frac{1}{2}$	23	$3\frac{1}{8}-\frac{1}{16}$	7	$10\frac{7}{8}$	24	5
7	$2\frac{1}{4}$	22	$1\frac{7}{8}$	7	$6\frac{5}{8}$	23	$3\frac{1}{2}-\frac{1}{16}$	7	11	24	$5\frac{3}{8}$
7	$2\frac{3}{8}$	22	$2\frac{1}{4}$	7	$6\frac{3}{4}$	23	4	7	$11\frac{1}{8}$	24	$5\frac{3}{4}$
7	$2\frac{1}{2}$	22	$2\frac{5}{8}$	7	$6\frac{7}{8}$	23	$4\frac{3}{8}$	7	$11\frac{1}{4}$	24	$6\frac{1}{8}$
7	$2\frac{5}{8}$	22	3	7	7	23	$4\frac{3}{4}-\frac{1}{16}$	7	$11\frac{3}{8}$	24	$6\frac{1}{2}$
7	$2\frac{3}{4}$	22	$3\frac{3}{8}$	7	$7\frac{1}{8}$	23	$5\frac{1}{8}-\frac{1}{16}$	7	$11\frac{1}{2}$	24	$6\frac{7}{8}$
7	$2\frac{7}{8}$	22	$3\frac{3}{4}-\frac{1}{16}$	7	$7\frac{1}{4}$	23	$5\frac{1}{2}-\frac{1}{16}$	7	$11\frac{5}{8}$	24	$7\frac{1}{4}-\frac{1}{16}$
7	3	22	$4\frac{1}{8}-\frac{1}{16}$	7	$7\frac{3}{8}$	23	6	7	$11\frac{3}{4}$	24	$7\frac{5}{8}-\frac{1}{16}$
7	$3\frac{1}{8}$	22	$4\frac{1}{2}-\frac{1}{16}$	7	$7\frac{1}{2}$	23	$6\frac{3}{8}$	7	$11\frac{7}{8}$	24	$8\frac{1}{8}$
7	$3\frac{1}{4}$	22	5	7	$7\frac{5}{8}$	23	$6\frac{3}{4}$	8	0	24	$8\frac{1}{2}$
7	$3\frac{3}{8}$	22	$5\frac{3}{8}$	7	$7\frac{3}{4}$	23	$7\frac{1}{8}$	8	$0\frac{1}{8}$	24	$8\frac{7}{8}$
7	$3\frac{1}{2}$	22	$5\frac{3}{4}-\frac{1}{16}$	7	$7\frac{7}{8}$	23	$7\frac{1}{2}$	8	$0\frac{1}{4}$	24	$9\frac{1}{4}-\frac{1}{16}$
7	$3\frac{5}{8}$	22	$6\frac{1}{8}-\frac{1}{16}$	7	8	23	$7\frac{7}{8}$	8	$0\frac{3}{8}$	24	$9\frac{3}{8}-\frac{1}{16}$
7	$3\frac{3}{4}$	22	$6\frac{1}{2}-\frac{1}{16}$	7	$8\frac{1}{8}$	23	$8\frac{1}{4}-\frac{1}{16}$	8	$0\frac{1}{2}$	24	$10\frac{1}{16}$
7	$3\frac{7}{8}$	22	7	7	$8\frac{1}{4}$	23	$8\frac{5}{8}-\frac{1}{16}$	8	$0\frac{5}{8}$	24	$10\frac{3}{8}-\frac{1}{16}$
7	4	22	$7\frac{3}{8}$	7	$8\frac{3}{8}$	23	$9\frac{1}{16}$	8	$0\frac{3}{4}$	24	$10\frac{3}{4}-\frac{1}{16}$
7	$4\frac{1}{8}$	22	$7\frac{3}{4}$	7	$8\frac{1}{2}$	23	$9\frac{1}{2}$	8	$0\frac{7}{8}$	24	$11\frac{1}{8}-\frac{1}{16}$
7	$4\frac{1}{4}$	22	$8\frac{1}{8}$	7	$8\frac{5}{8}$	23	$9\frac{7}{8}$	8	1	24	$11\frac{1}{2}-\frac{1}{16}$
7	$4\frac{3}{8}$	22	$8\frac{1}{2}$	7	$8\frac{3}{4}$	23	$10\frac{1}{4}-\frac{1}{16}$	8	$1\frac{1}{8}$	25	0
7	$4\frac{1}{2}$	22	$8\frac{7}{8}$	7	$8\frac{7}{8}$	23	$10\frac{3}{8}-\frac{1}{16}$	8	$1\frac{1}{4}$	25	$0\frac{3}{8}$
7	$4\frac{5}{8}$	22	$9\frac{1}{4}-\frac{1}{16}$	7	9	23	$11\frac{1}{16}$	8	$1\frac{3}{8}$	25	$0\frac{3}{4}-\frac{1}{16}$
7	$4\frac{3}{4}$	22	$9\frac{5}{8}-\frac{1}{16}$	7	$9\frac{1}{8}$	23	$11\frac{3}{8}-\frac{1}{16}$	8	$1\frac{1}{2}$	25	$1\frac{1}{8}-\frac{1}{16}$
7	$4\frac{7}{8}$	22	$10\frac{1}{8}$	7	$9\frac{1}{4}$	23	$11\frac{3}{4}-\frac{1}{16}$	8	$1\frac{5}{8}$	25	$1\frac{1}{2}-\frac{1}{16}$
7	5	22	$10\frac{1}{2}$	7	$9\frac{3}{8}$	24	$0\frac{1}{8}-\frac{1}{16}$	8	$1\frac{3}{4}$	25	2
7	$5\frac{1}{8}$	22	$10\frac{7}{8}$	7	$9\frac{1}{2}$	24	$0\frac{1}{2}-\frac{1}{16}$	8	$1\frac{7}{8}$	25	$2\frac{3}{8}$
7	$5\frac{1}{4}$	22	$11\frac{1}{4}-\frac{1}{16}$	7	$9\frac{5}{8}$	24	1	8	2	25	$2\frac{3}{4}-\frac{1}{16}$
7	$5\frac{3}{8}$	22	$11\frac{5}{8}-\frac{1}{16}$	7	$9\frac{3}{4}$	24	$1\frac{3}{8}$	8	$2\frac{1}{8}$	25	$3\frac{1}{8}-\frac{1}{16}$
7	$5\frac{1}{2}$	23	$0\frac{1}{8}$	7	$9\frac{7}{8}$	24	$1\frac{3}{4}-\frac{1}{16}$	8	$2\frac{1}{4}$	25	$3\frac{1}{2}-\frac{1}{16}$
7	$5\frac{5}{8}$	23	$0\frac{1}{2}$	7	10	24	$2\frac{1}{8}-\frac{1}{16}$	8	$2\frac{3}{8}$	25	$3\frac{7}{8}-\frac{1}{16}$
7	$5\frac{3}{4}$	23	$0\frac{7}{8}$	7	$10\frac{1}{8}$	24	$2\frac{1}{2}-\frac{1}{16}$	8	$2\frac{1}{2}$	25	$4\frac{1}{4}-\frac{1}{16}$
7	$5\frac{7}{8}$	23	$1\frac{1}{4}$	7	$10\frac{1}{4}$	24	3	8	$2\frac{5}{8}$	25	$4\frac{5}{8}-\frac{1}{16}$
7	6	23	$1\frac{5}{8}$	7	$10\frac{3}{8}$	24	$3\frac{3}{8}$	8	$2\frac{3}{4}$	25	$5\frac{1}{8}$
7	$6\frac{1}{8}$	23	2	7	$10\frac{1}{2}$	24	$3\frac{3}{4}-\frac{1}{16}$	8	$2\frac{7}{8}$	25	$5\frac{1}{2}$

ANGLE-IRON RINGS (FLANGE INSIDE). 169

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	3	25	$5\frac{7}{8}$	8	$7\frac{3}{8}$	26	$7\frac{5}{8}$	8	$11\frac{3}{4}$	27	$9\frac{3}{8}$
8	$3\frac{1}{8}$	25	$6\frac{1}{4}-\frac{1}{16}$	8	$7\frac{1}{2}$	26	8	8	$11\frac{7}{8}$	27	$9\frac{3}{4}$
8	$3\frac{1}{4}$	25	$6\frac{3}{8}-\frac{1}{16}$	8	$7\frac{5}{8}$	26	$8\frac{3}{8}-\frac{1}{16}$	9	0	27	$10\frac{1}{8}$
8	$3\frac{3}{8}$	5	$7\frac{1}{8}$	8	$7\frac{3}{4}$	26	$8\frac{3}{4}-\frac{1}{16}$	9	$0\frac{1}{8}$	27	$10\frac{1}{2}$
8	$3\frac{1}{2}$	25	$7\frac{1}{2}$	8	$7\frac{7}{8}$	26	$9\frac{1}{8}-\frac{1}{16}$	9	$0\frac{1}{4}$	27	$10\frac{7}{8}-\frac{1}{16}$
8	$3\frac{5}{8}$	25	$7\frac{7}{8}$	8	8	26	$9\frac{1}{2}-\frac{1}{16}$	9	$0\frac{3}{8}$	27	$11\frac{1}{4}-\frac{1}{16}$
8	$3\frac{3}{4}$	25	$8\frac{1}{4}-\frac{1}{16}$	8	$8\frac{1}{8}$	26	10	9	$0\frac{1}{2}$	27	$11\frac{3}{4}$
8	$3\frac{7}{8}$	25	$8\frac{5}{8}-\frac{1}{16}$	8	$8\frac{1}{4}$	26	$10\frac{3}{8}$	9	$0\frac{5}{8}$	28	$0\frac{1}{8}$
8	4	25	$9\frac{1}{16}$	8	$8\frac{3}{8}$	26	$10\frac{3}{4}$	9	$0\frac{3}{4}$	28	$0\frac{1}{2}$
8	$4\frac{1}{8}$	25	$9\frac{3}{8}-\frac{1}{16}$	8	$8\frac{1}{2}$	26	$11\frac{1}{8}-\frac{1}{16}$	9	$0\frac{7}{8}$	28	$0\frac{1}{8}$
8	$4\frac{1}{4}$	25	$9\frac{3}{4}-\frac{1}{16}$	8	$8\frac{5}{8}$	26	$11\frac{1}{2}-\frac{1}{16}$	9	1	28	$1\frac{1}{4}-\frac{1}{16}$
8	$4\frac{3}{8}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	$8\frac{3}{4}$	26	$11\frac{7}{8}-\frac{1}{16}$	9	$1\frac{1}{8}$	28	$1\frac{5}{8}-\frac{1}{16}$
8	$4\frac{1}{2}$	25	$10\frac{1}{2}-\frac{1}{16}$	8	$8\frac{7}{8}$	27	$0\frac{1}{4}-\frac{1}{16}$	9	$1\frac{1}{4}$	28	$2\frac{1}{16}$
8	$4\frac{5}{8}$	25	11	8	9	27	$0\frac{3}{8}-\frac{1}{16}$	9	$1\frac{3}{8}$	28	$2\frac{1}{2}$
8	$4\frac{3}{4}$	25	$11\frac{3}{8}$	8	$9\frac{1}{8}$	27	$1\frac{1}{16}$	9	$1\frac{1}{2}$	28	$2\frac{7}{8}$
8	$4\frac{7}{8}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$9\frac{1}{4}$	27	$1\frac{1}{2}$	9	$1\frac{5}{8}$	28	$3\frac{1}{4}$
8	5	26	$0\frac{1}{8}-\frac{1}{16}$	8	$9\frac{3}{8}$	27	$1\frac{7}{8}-\frac{1}{16}$	9	$1\frac{3}{4}$	28	$3\frac{5}{8}$
8	$5\frac{1}{8}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	$9\frac{1}{2}$	27	$2\frac{1}{4}-\frac{1}{16}$	9	$1\frac{7}{8}$	28	4
8	$5\frac{1}{4}$	26	1	8	$9\frac{5}{8}$	27	$2\frac{3}{8}-\frac{1}{16}$	9	2	28	$4\frac{3}{8}-\frac{1}{16}$
8	$5\frac{3}{8}$	26	$1\frac{3}{8}$	8	$9\frac{3}{4}$	27	$3\frac{1}{16}$	9	$2\frac{1}{8}$	28	$4\frac{7}{8}$
8	$5\frac{1}{2}$	26	$1\frac{3}{4}-\frac{1}{16}$	8	$9\frac{7}{8}$	27	$3\frac{1}{2}$	9	$2\frac{1}{4}$	28	$5\frac{1}{4}$
8	$5\frac{5}{8}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	10	27	$3\frac{7}{8}$	9	$2\frac{3}{8}$	28	$5\frac{5}{8}$
8	$5\frac{3}{4}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	$10\frac{1}{8}$	27	$4\frac{1}{4}$	9	$2\frac{1}{2}$	28	6
8	$5\frac{7}{8}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$10\frac{1}{4}$	27	$4\frac{5}{8}-\frac{1}{16}$	9	$2\frac{5}{8}$	28	$6\frac{3}{8}$
8	6	26	$3\frac{1}{4}-\frac{1}{16}$	8	$10\frac{3}{8}$	27	$5\frac{1}{16}$	9	$2\frac{3}{4}$	28	$6\frac{3}{4}-\frac{1}{16}$
8	$6\frac{1}{8}$	26	$3\frac{5}{8}-\frac{1}{16}$	8	$10\frac{1}{2}$	27	$5\frac{5}{8}-\frac{1}{16}$	9	$2\frac{7}{8}$	28	$7\frac{1}{8}-\frac{1}{16}$
8	$6\frac{1}{4}$	26	$4\frac{1}{8}$	8	$10\frac{5}{8}$	27	$5\frac{3}{4}-\frac{1}{16}$	9	3	28	$7\frac{1}{2}-\frac{1}{16}$
8	$6\frac{3}{8}$	26	$4\frac{1}{2}$	8	$10\frac{3}{4}$	27	$6\frac{1}{4}$	9	$3\frac{1}{8}$	28	8
8	$6\frac{1}{2}$	26	$4\frac{7}{8}$	8	$10\frac{7}{8}$	27	$6\frac{3}{8}$	9	$3\frac{1}{4}$	28	$8\frac{3}{8}$
8	$6\frac{5}{8}$	26	$5\frac{1}{4}-\frac{1}{16}$	8	11	27	7	9	$3\frac{3}{8}$	28	$8\frac{3}{4}$
8	$6\frac{3}{4}$	26	$5\frac{5}{8}-\frac{1}{16}$	8	$11\frac{1}{8}$	27	$7\frac{3}{8}-\frac{1}{16}$	9	$3\frac{1}{2}$	28	$9\frac{1}{8}$
8	$6\frac{7}{8}$	26	$6\frac{1}{16}$	8	$11\frac{1}{4}$	27	$7\frac{3}{4}-\frac{1}{16}$	9	$3\frac{5}{8}$	28	$9\frac{1}{2}$
8	7	26	$6\frac{3}{8}-\frac{1}{16}$	8	$11\frac{3}{8}$	27	$8\frac{1}{8}-\frac{1}{16}$	9	$3\frac{3}{4}$	28	$9\frac{7}{8}-\frac{1}{16}$
8	$7\frac{1}{8}$	26	$6\frac{3}{4}-\frac{1}{16}$	8	$11\frac{1}{2}$	27	$8\frac{1}{2}-\frac{1}{16}$	9	$3\frac{7}{8}$	28	$10\frac{1}{4}-\frac{1}{16}$
8	$7\frac{1}{4}$	26	$7\frac{1}{4}$	8	$11\frac{5}{8}$	27	9	9	4	28	$10\frac{3}{4}$

# 170      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	$4\frac{1}{8}$	28	$11\frac{1}{8}$	9	$8\frac{1}{2}$	30	$0\frac{7}{8}$	10	$0\frac{7}{8}$	31	$2\frac{5}{8}$
9	$4\frac{1}{4}$	28	$11\frac{1}{2}$	9	$8\frac{5}{8}$	30	$1\frac{1}{4}$	10	1	31	3
9	$4\frac{3}{8}$	28	$11\frac{7}{8}$	9	$8\frac{3}{4}$	30	$1\frac{5}{8}$	10	$1\frac{1}{8}$	31	$3\frac{3}{8}$
9	$4\frac{1}{2}$	29	$0\frac{1}{4}-\frac{1}{16}$	9	$8\frac{7}{8}$	30	2	10	$1\frac{1}{4}$	31	$3\frac{3}{4}$
9	$4\frac{5}{8}$	29	$0\frac{5}{8}-\frac{1}{16}$	9	9	30	$2\frac{3}{8}-\frac{1}{16}$	10	$1\frac{3}{8}$	31	$4\frac{1}{8}$
9	$4\frac{3}{4}$	29	$1\frac{1}{16}$	9	$9\frac{1}{8}$	30	$2\frac{3}{4}-\frac{1}{16}$	10	$1\frac{1}{2}$	31	$4\frac{1}{2}-\frac{1}{16}$
9	$4\frac{7}{8}$	29	$1\frac{1}{2}$	9	$9\frac{1}{4}$	30	$3\frac{1}{4}$	10	$1\frac{5}{8}$	31	5
9	5	29	$1\frac{5}{8}$	9	$9\frac{3}{8}$	30	$3\frac{5}{8}$	10	$1\frac{3}{4}$	31	$5\frac{3}{8}$
9	$5\frac{1}{8}$	29	$2\frac{1}{4}$	9	$9\frac{1}{2}$	30	4	10	$1\frac{7}{8}$	31	$5\frac{3}{4}$
9	$5\frac{1}{4}$	29	$2\frac{5}{8}$	9	$9\frac{5}{8}$	30	$4\frac{3}{8}$	10	2	31	$6\frac{1}{8}$
9	$5\frac{3}{8}$	29	3	9	$9\frac{3}{4}$	30	$4\frac{3}{4}$	10	$2\frac{1}{8}$	31	$6\frac{1}{2}$
9	$5\frac{1}{2}$	29	$3\frac{3}{8}-\frac{1}{16}$	9	$9\frac{7}{8}$	30	$5\frac{1}{8}-\frac{1}{16}$	10	$2\frac{1}{4}$	31	$6\frac{7}{8}-\frac{1}{16}$
9	$5\frac{5}{8}$	29	$3\frac{3}{4}-\frac{1}{16}$	9	10	30	$5\frac{1}{2}-\frac{1}{16}$	10	$2\frac{3}{8}$	31	$7\frac{1}{4}-\frac{1}{16}$
9	$5\frac{3}{4}$	29	$4\frac{1}{4}$	9	$10\frac{1}{8}$	30	6	10	$2\frac{1}{2}$	31	$7\frac{3}{8}-\frac{1}{16}$
9	$5\frac{7}{8}$	29	$4\frac{5}{8}$	9	$10\frac{1}{4}$	30	$6\frac{3}{8}$	10	$2\frac{5}{8}$	31	$8\frac{1}{8}$
9	6	29	5	9	$10\frac{3}{8}$	30	$6\frac{3}{4}$	10	$2\frac{3}{4}$	31	$8\frac{1}{2}$
9	$6\frac{1}{8}$	29	$5\frac{3}{8}$	9	$10\frac{1}{2}$	30	$7\frac{1}{8}$	10	$2\frac{7}{8}$	31	$8\frac{7}{8}$
9	$6\frac{1}{4}$	29	$5\frac{3}{4}-\frac{1}{16}$	9	$10\frac{5}{8}$	30	$7\frac{1}{2}$	10	3	31	$9\frac{1}{4}$
9	$6\frac{3}{8}$	29	$6\frac{1}{8}-\frac{1}{16}$	9	$10\frac{3}{4}$	30	$7\frac{7}{8}-\frac{1}{16}$	10	$3\frac{1}{8}$	31	$9\frac{5}{8}-\frac{1}{16}$
9	$6\frac{1}{2}$	29	$6\frac{1}{2}-\frac{1}{16}$	9	$10\frac{7}{8}$	30	$8\frac{1}{4}-\frac{1}{16}$	10	$3\frac{1}{4}$	31	$10\frac{1}{16}$
9	$6\frac{5}{8}$	29	7	9	11	30	$8\frac{3}{4}$	10	$3\frac{3}{8}$	31	$10\frac{3}{8}-\frac{1}{16}$
9	$6\frac{3}{4}$	29	$7\frac{3}{8}$	9	$11\frac{1}{8}$	30	$9\frac{1}{8}$	10	$3\frac{1}{2}$	31	$10\frac{7}{8}$
9	$6\frac{7}{8}$	29	$7\frac{3}{4}$	9	$11\frac{1}{4}$	30	$9\frac{1}{2}$	10	$3\frac{5}{8}$	31	$11\frac{1}{4}$
9	7	29	$8\frac{1}{8}$	9	$11\frac{3}{8}$	30	$9\frac{7}{8}$	10	$3\frac{3}{4}$	31	$11\frac{5}{8}$
9	$7\frac{1}{8}$	29	$8\frac{1}{2}-\frac{1}{16}$	9	$11\frac{1}{2}$	30	$10\frac{1}{4}$	10	$3\frac{7}{8}$	32	0
9	$7\frac{1}{4}$	29	$8\frac{7}{8}-\frac{1}{16}$	9	$11\frac{5}{8}$	30	$10\frac{5}{8}-\frac{1}{16}$	10	4	32	$0\frac{3}{8}-\frac{1}{16}$
9	$7\frac{3}{8}$	29	$9\frac{1}{4}-\frac{1}{16}$	9	$11\frac{3}{4}$	30	$11\frac{1}{16}$	10	$4\frac{1}{8}$	32	$0\frac{3}{4}-\frac{1}{16}$
9	$7\frac{1}{2}$	29	$9\frac{3}{4}$	9	$11\frac{7}{8}$	30	$11\frac{3}{8}-\frac{1}{16}$	10	$4\frac{1}{4}$	32	$1\frac{1}{8}-\frac{1}{16}$
9	$7\frac{5}{8}$	29	$10\frac{1}{8}$	10	0	30	$11\frac{3}{4}-\frac{1}{16}$	10	$4\frac{3}{8}$	32	$1\frac{5}{8}$
9	$7\frac{3}{4}$	29	$10\frac{1}{2}$	10	$0\frac{1}{8}$	31	$0\frac{1}{4}$	10	$4\frac{1}{2}$	32	2
9	$7\frac{7}{8}$	29	$10\frac{7}{8}$	10	$0\frac{1}{4}$	31	$0\frac{5}{8}$	10	$4\frac{5}{8}$	32	$2\frac{3}{8}$
9	8	19	$11\frac{1}{4}-\frac{1}{16}$	10	$0\frac{3}{8}$	31	1	10	$4\frac{3}{4}$	32	$2\frac{3}{4}-\frac{1}{16}$
9	$8\frac{1}{8}$	29	$11\frac{5}{8}-\frac{1}{16}$	10	$0\frac{1}{2}$	31	$1\frac{3}{8}-\frac{1}{16}$	10	$4\frac{7}{8}$	32	$3\frac{1}{8}-\frac{1}{16}$
9	$8\frac{1}{4}$	30	$0\frac{1}{16}$	10	$0\frac{5}{8}$	31	$1\frac{1}{4}-\frac{1}{16}$	10	5	32	$3\frac{1}{2}-\frac{1}{16}$
9	$8\frac{3}{8}$	30	$0\frac{3}{8}-\frac{1}{16}$	10	$0\frac{3}{4}$	31	$2\frac{1}{4}$	10	$5\frac{1}{8}$	32	$3\frac{7}{8}-\frac{1}{16}$

# ANGLE-IRON RINGS (FLANGE INSIDE). 171

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	5 $\frac{1}{4}$	32	4 $\frac{3}{8}$	10	9 $\frac{5}{8}$	33	6 $\frac{1}{16}$	11	2	34	7 $\frac{3}{4}$ - $\frac{1}{16}$
10	5 $\frac{3}{8}$	32	4 $\frac{3}{4}$	10	9 $\frac{3}{4}$	33	6 $\frac{1}{2}$	11	2 $\frac{1}{8}$	34	8 $\frac{1}{4}$
10	5 $\frac{1}{2}$	32	5 $\frac{1}{8}$	10	9 $\frac{7}{8}$	33	6 $\frac{7}{8}$	11	2 $\frac{1}{4}$	34	8 $\frac{5}{8}$
10	5 $\frac{5}{8}$	32	5 $\frac{1}{2}$	10	10	33	7 $\frac{1}{4}$	11	2 $\frac{3}{8}$	34	9
10	5 $\frac{3}{4}$	32	5 $\frac{7}{8}$ - $\frac{1}{16}$	10	10 $\frac{1}{8}$	33	7 $\frac{5}{8}$ - $\frac{1}{16}$	11	2 $\frac{1}{2}$	34	9 $\frac{3}{8}$
10	5 $\frac{7}{8}$	32	6 $\frac{1}{4}$ - $\frac{1}{16}$	10	10 $\frac{1}{4}$	33	8 $\frac{1}{16}$	11	2 $\frac{5}{8}$	34	9 $\frac{3}{4}$ - $\frac{1}{16}$
10	6	32	6 $\frac{5}{8}$ - $\frac{1}{16}$	10	10 $\frac{3}{8}$	33	8 $\frac{3}{8}$ - $\frac{1}{16}$	11	2 $\frac{3}{4}$	34	10 $\frac{1}{8}$ - $\frac{1}{16}$
10	6 $\frac{1}{8}$	32	7 $\frac{1}{8}$	10	10 $\frac{1}{2}$	33	8 $\frac{7}{8}$	11	2 $\frac{7}{8}$	34	10 $\frac{1}{2}$ - $\frac{1}{16}$
10	6 $\frac{1}{4}$	32	7 $\frac{1}{2}$	10	10 $\frac{5}{8}$	33	9 $\frac{1}{4}$	11	3	34	11
10	6 $\frac{3}{8}$	32	7 $\frac{7}{8}$	10	10 $\frac{3}{4}$	33	9 $\frac{5}{8}$	11	3 $\frac{1}{8}$	34	11 $\frac{3}{8}$
10	6 $\frac{1}{2}$	32	8 $\frac{1}{4}$	10	10 $\frac{7}{8}$	33	10	11	3 $\frac{1}{4}$	34	11 $\frac{3}{4}$
10	6 $\frac{5}{8}$	32	8 $\frac{5}{8}$ - $\frac{1}{16}$	10	11	33	10 $\frac{3}{8}$ - $\frac{1}{16}$	11	3 $\frac{3}{8}$	35	0 $\frac{1}{8}$
10	6 $\frac{3}{4}$	32	9 $\frac{1}{16}$	10	11 $\frac{1}{8}$	33	10 $\frac{3}{4}$ - $\frac{1}{16}$	11	3 $\frac{1}{2}$	35	0 $\frac{1}{2}$ - $\frac{1}{16}$
10	6 $\frac{7}{8}$	32	9 $\frac{3}{8}$ - $\frac{1}{16}$	10	11 $\frac{1}{4}$	33	11 $\frac{1}{8}$ - $\frac{1}{16}$	11	3 $\frac{5}{8}$	35	0 $\frac{7}{8}$ - $\frac{1}{16}$
10	7	32	9 $\frac{3}{4}$ - $\frac{1}{16}$	10	11 $\frac{3}{8}$	33	11 $\frac{1}{2}$ - $\frac{1}{16}$	11	3 $\frac{3}{4}$	35	1 $\frac{1}{4}$ - $\frac{1}{16}$
10	7 $\frac{1}{8}$	32	10 $\frac{1}{4}$	10	11 $\frac{1}{2}$	34	0	11	3 $\frac{7}{8}$	35	1 $\frac{3}{4}$
10	7 $\frac{1}{4}$	32	10 $\frac{5}{8}$	10	11 $\frac{5}{8}$	34	0 $\frac{3}{8}$	11	4	35	2 $\frac{1}{8}$
10	7 $\frac{3}{8}$	32	11	10	11 $\frac{3}{4}$	34	0 $\frac{3}{4}$	11	4 $\frac{1}{8}$	35	2 $\frac{1}{2}$
10	7 $\frac{1}{2}$	32	11 $\frac{3}{8}$ - $\frac{1}{16}$	10	11 $\frac{7}{8}$	34	1 $\frac{1}{8}$ - $\frac{1}{16}$	11	4 $\frac{1}{4}$	35	2 $\frac{7}{8}$
10	7 $\frac{5}{8}$	32	11 $\frac{3}{4}$ - $\frac{1}{16}$	11	0	34	1 $\frac{1}{2}$ - $\frac{1}{16}$	11	4 $\frac{3}{8}$	35	3 $\frac{1}{4}$ - $\frac{1}{16}$
10	7 $\frac{3}{4}$	33	0 $\frac{1}{4}$	11	0 $\frac{1}{8}$	34	1 $\frac{7}{8}$ - $\frac{1}{16}$	11	4 $\frac{1}{2}$	35	3 $\frac{5}{8}$ - $\frac{1}{16}$
10	7 $\frac{7}{8}$	33	0 $\frac{5}{8}$	11	0 $\frac{1}{4}$	34	2 $\frac{1}{4}$ - $\frac{1}{16}$	11	4 $\frac{5}{8}$	35	4 $\frac{1}{16}$
10	8	33	1	11	0 $\frac{3}{8}$	34	2 $\frac{3}{4}$	11	4 $\frac{3}{4}$	35	4 $\frac{1}{2}$
10	8 $\frac{1}{8}$	33	1 $\frac{3}{8}$	11	0 $\frac{1}{2}$	34	3 $\frac{1}{8}$	11	4 $\frac{7}{8}$	35	4 $\frac{7}{8}$
10	8 $\frac{1}{4}$	33	1 $\frac{3}{4}$	11	0 $\frac{5}{8}$	34	3 $\frac{1}{2}$	11	5	35	5 $\frac{1}{4}$
10	8 $\frac{3}{8}$	33	2 $\frac{1}{8}$ - $\frac{1}{16}$	11	0 $\frac{3}{4}$	34	3 $\frac{7}{8}$ - $\frac{1}{16}$	11	5 $\frac{1}{8}$	35	5 $\frac{5}{8}$
10	8 $\frac{1}{2}$	33	2 $\frac{1}{2}$ - $\frac{1}{16}$	11	0 $\frac{7}{8}$	34	4 $\frac{1}{4}$ - $\frac{1}{16}$	11	5 $\frac{1}{4}$	35	6 $\frac{1}{16}$
10	8 $\frac{5}{8}$	33	3	11	1	34	4 $\frac{5}{8}$ - $\frac{1}{16}$	11	5 $\frac{3}{8}$	35	6 $\frac{3}{8}$ - $\frac{1}{16}$
10	8 $\frac{3}{4}$	33	3 $\frac{3}{8}$	11	1 $\frac{1}{8}$	34	5 $\frac{1}{16}$	11	5 $\frac{1}{2}$	35	6 $\frac{3}{4}$ - $\frac{1}{16}$
10	8 $\frac{7}{8}$	33	3 $\frac{3}{4}$	11	1 $\frac{1}{4}$	34	5 $\frac{1}{2}$	11	5 $\frac{5}{8}$	35	7 $\frac{1}{4}$
10	9	33	4 $\frac{1}{8}$	11	1 $\frac{3}{8}$	34	5 $\frac{7}{8}$	11	5 $\frac{3}{4}$	35	7 $\frac{5}{8}$
10	9 $\frac{1}{8}$	33	4 $\frac{1}{2}$	11	1 $\frac{1}{2}$	34	6 $\frac{1}{4}$	11	5 $\frac{7}{8}$	35	8
10	9 $\frac{1}{4}$	33	4 $\frac{7}{8}$	11	1 $\frac{5}{8}$	34	6 $\frac{5}{8}$ - $\frac{1}{16}$	11	6	35	8 $\frac{3}{8}$ - $\frac{1}{16}$
10	9 $\frac{3}{8}$	33	5 $\frac{1}{4}$ - $\frac{1}{16}$	11	1 $\frac{3}{4}$	34	7 $\frac{1}{16}$	11	6 $\frac{1}{8}$	35	8 $\frac{3}{4}$ - $\frac{1}{16}$
10	9 $\frac{1}{2}$	33	5 $\frac{5}{8}$ - $\frac{1}{16}$	11	1 $\frac{7}{8}$	34	7 $\frac{3}{8}$ - $\frac{1}{16}$	11	6 $\frac{1}{4}$	35	9 $\frac{1}{8}$ - $\frac{1}{16}$

172 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{3}{4}-\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	6 $\frac{3}{8}$	35	9 $\frac{1}{2}-\frac{1}{16}$	11	10 $\frac{3}{4}$	36	11 $\frac{1}{4}-\frac{1}{16}$	12	3 $\frac{1}{8}$	38	1 $\frac{1}{8}$
11	6 $\frac{1}{2}$	35	10	11	10 $\frac{7}{8}$	36	11 $\frac{3}{4}$	12	3 $\frac{1}{4}$	38	1 $\frac{1}{2}$
11	6 $\frac{5}{8}$	35	10 $\frac{3}{8}$	11	11	37	0 $\frac{5}{8}$	12	3 $\frac{3}{8}$	38	1 $\frac{7}{8}$
11	6 $\frac{3}{4}$	35	10 $\frac{3}{4}$	11	11 $\frac{1}{8}$	37	0 $\frac{1}{2}$	12	3 $\frac{1}{2}$	38	2 $\frac{1}{4}$
11	6 $\frac{7}{8}$	35	11 $\frac{1}{8}$	11	11 $\frac{1}{4}$	37	0 $\frac{7}{8}$	12	3 $\frac{5}{8}$	38	2 $\frac{5}{8}$
11	7	35	11 $\frac{1}{2}-\frac{1}{16}$	11	11 $\frac{3}{8}$	37	1 $\frac{1}{4}-\frac{1}{16}$	12	3 $\frac{3}{4}$	38	3
11	7 $\frac{1}{8}$	35	11 $\frac{7}{8}-\frac{1}{16}$	11	11 $\frac{1}{2}$	37	1 $\frac{5}{8}-\frac{1}{16}$	12	3 $\frac{7}{8}$	38	3 $\frac{3}{8}$
11	7 $\frac{1}{4}$	36	0 $\frac{1}{4}-\frac{1}{16}$	11	11 $\frac{5}{8}$	37	2 $\frac{1}{16}$	12	4	38	3 $\frac{3}{4}-\frac{1}{16}$
11	7 $\frac{3}{8}$	36	0 $\frac{5}{8}-\frac{1}{16}$	11	11 $\frac{3}{4}$	37	2 $\frac{3}{8}-\frac{1}{16}$	12	4 $\frac{1}{8}$	38	4 $\frac{1}{8}-\frac{1}{16}$
11	7 $\frac{1}{2}$	36	1 $\frac{1}{8}$	11	11 $\frac{7}{8}$	37	2 $\frac{7}{8}$	12	4 $\frac{1}{4}$	38	4 $\frac{5}{8}$
11	7 $\frac{5}{8}$	36	1 $\frac{1}{2}$	12	0	37	3 $\frac{1}{4}$	12	4 $\frac{3}{8}$	38	5
11	7 $\frac{3}{4}$	36	1 $\frac{7}{8}$	12	0 $\frac{1}{8}$	37	3 $\frac{5}{8}$	12	4 $\frac{1}{2}$	38	5 $\frac{3}{8}$
11	7 $\frac{7}{8}$	36	2 $\frac{1}{4}-\frac{1}{16}$	12	0 $\frac{1}{4}$	37	4 $\frac{1}{16}$	12	4 $\frac{5}{8}$	38	5 $\frac{3}{4}-\frac{1}{16}$
11	8	36	2 $\frac{5}{8}-\frac{1}{16}$	12	0 $\frac{3}{8}$	37	4 $\frac{3}{8}-\frac{1}{16}$	12	4 $\frac{3}{4}$	38	6 $\frac{1}{4}$
11	8 $\frac{1}{8}$	36	3 $\frac{1}{16}$	12	0 $\frac{1}{2}$	37	4 $\frac{3}{4}-\frac{1}{16}$	12	4 $\frac{7}{8}$	38	6 $\frac{5}{8}$
11	8 $\frac{1}{4}$	36	3 $\frac{1}{2}$	12	0 $\frac{5}{8}$	37	5 $\frac{1}{4}$	12	5	38	7
11	8 $\frac{3}{8}$	36	3 $\frac{7}{8}$	12	0 $\frac{3}{4}$	37	5 $\frac{5}{8}$	12	5 $\frac{1}{8}$	38	7 $\frac{3}{8}$
11	8 $\frac{1}{2}$	36	4 $\frac{1}{4}$	12	0 $\frac{7}{8}$	37	6	12	5 $\frac{1}{4}$	38	7 $\frac{3}{4}$
11	8 $\frac{5}{8}$	36	4 $\frac{5}{8}$	12	1	37	6 $\frac{3}{8}$	12	5 $\frac{3}{8}$	38	8 $\frac{1}{8}$
11	8 $\frac{3}{4}$	36	5	12	1 $\frac{1}{8}$	37	6 $\frac{3}{4}$	12	5 $\frac{1}{2}$	38	8 $\frac{1}{2}-\frac{1}{16}$
11	8 $\frac{7}{8}$	36	5 $\frac{3}{8}-\frac{1}{16}$	12	1 $\frac{1}{4}$	37	7 $\frac{1}{8}-\frac{1}{16}$	12	5 $\frac{5}{8}$	38	8 $\frac{7}{8}-\frac{1}{16}$
11	9	36	5 $\frac{3}{4}-\frac{1}{16}$	12	1 $\frac{3}{8}$	37	7 $\frac{1}{2}-\frac{1}{16}$	12	5 $\frac{3}{4}$	38	9 $\frac{1}{4}-\frac{1}{16}$
11	9 $\frac{1}{8}$	36	6 $\frac{1}{4}$	12	1 $\frac{1}{2}$	37	7 $\frac{7}{8}-\frac{1}{16}$	12	5 $\frac{7}{8}$	38	9 $\frac{3}{4}$
11	9 $\frac{1}{4}$	36	6 $\frac{5}{8}$	12	1 $\frac{5}{8}$	37	8 $\frac{3}{8}$	12	6	38	10 $\frac{1}{8}$
11	9 $\frac{3}{8}$	36	7	12	1 $\frac{3}{4}$	37	8 $\frac{3}{4}$	12	6 $\frac{1}{8}$	38	10 $\frac{1}{2}$
11	9 $\frac{1}{2}$	36	7 $\frac{3}{8}$	12	1 $\frac{7}{8}$	37	9 $\frac{1}{8}$	12	6 $\frac{1}{4}$	38	10 $\frac{7}{8}$
11	9 $\frac{5}{8}$	36	7 $\frac{3}{4}-\frac{1}{16}$	12	2	37	9 $\frac{1}{2}$	12	6 $\frac{3}{8}$	38	11 $\frac{1}{4}$
11	9 $\frac{3}{4}$	36	8 $\frac{1}{8}-\frac{1}{16}$	12	2 $\frac{1}{8}$	37	9 $\frac{7}{8}$	12	6 $\frac{1}{2}$	38	11 $\frac{5}{8}-\frac{1}{16}$
11	9 $\frac{7}{8}$	36	8 $\frac{1}{2}-\frac{1}{16}$	12	2 $\frac{1}{4}$	37	10 $\frac{1}{4}-\frac{1}{16}$	12	6 $\frac{5}{8}$	39	0 $\frac{1}{16}$
11	10	36	9	12	2 $\frac{3}{8}$	37	10 $\frac{3}{4}$	12	6 $\frac{3}{4}$	39	0 $\frac{3}{8}-\frac{1}{16}$
11	10 $\frac{1}{8}$	36	9 $\frac{3}{8}$	12	2 $\frac{1}{2}$	37	11 $\frac{1}{8}$	12	6 $\frac{7}{8}$	39	0 $\frac{7}{8}$
11	10 $\frac{1}{4}$	36	9 $\frac{3}{4}$	12	2 $\frac{5}{8}$	37	11 $\frac{1}{2}$	12	7	39	1 $\frac{1}{4}$
11	10 $\frac{3}{8}$	36	10 $\frac{1}{8}$	12	2 $\frac{3}{4}$	37	11 $\frac{7}{8}-\frac{1}{16}$	12	7 $\frac{1}{8}$	39	1 $\frac{3}{8}$
11	10 $\frac{1}{2}$	36	10 $\frac{1}{2}-\frac{1}{16}$	12	2 $\frac{7}{8}$	38	0 $\frac{1}{4}-\frac{1}{16}$	12	7 $\frac{1}{4}$	39	2
11	10 $\frac{5}{8}$	36	10 $\frac{7}{8}-\frac{1}{16}$	12	3	38	0 $\frac{3}{4}$	12	7 $\frac{3}{8}$	39	2 $\frac{3}{8}-\frac{1}{16}$



# ANGLE-IRON RINGS (FLANGE INSIDE). 173

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{3}{4}$ - $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	7 $\frac{1}{2}$	39	2 $\frac{3}{4}$ - $\frac{1}{16}$	12	9 $\frac{1}{8}$	39	7 $\frac{7}{8}$ - $\frac{1}{16}$	12	10 $\frac{3}{4}$	40	1
12	7 $\frac{5}{8}$	39	3 $\frac{1}{4}$	12	9 $\frac{1}{4}$	39	8 $\frac{1}{4}$ - $\frac{1}{16}$	12	10 $\frac{7}{8}$	40	1 $\frac{3}{8}$ - $\frac{1}{16}$
12	7 $\frac{3}{4}$	39	3 $\frac{5}{8}$	12	9 $\frac{3}{8}$	39	8 $\frac{5}{8}$ - $\frac{1}{16}$	12	11	40	1 $\frac{3}{4}$ - $\frac{1}{16}$
12	7 $\frac{7}{8}$	39	4	12	9 $\frac{1}{2}$	39	9 $\frac{1}{8}$	12	11 $\frac{1}{8}$	40	2 $\frac{1}{8}$ - $\frac{1}{16}$
12	8	39	4 $\frac{3}{8}$ - $\frac{1}{16}$	12	9 $\frac{3}{8}$	39	9 $\frac{1}{2}$	12	11 $\frac{1}{4}$	40	2 $\frac{1}{2}$ - $\frac{1}{16}$
12	8 $\frac{1}{8}$	39	4 $\frac{3}{4}$ - $\frac{1}{16}$	12	9 $\frac{3}{4}$	39	9 $\frac{7}{8}$	12	11 $\frac{3}{8}$	40	2 $\frac{7}{8}$ - $\frac{1}{16}$
12	8 $\frac{1}{4}$	39	5 $\frac{1}{8}$ - $\frac{1}{16}$	12	9 $\frac{7}{8}$	39	10 $\frac{1}{4}$ - $\frac{1}{16}$	12	11 $\frac{1}{2}$	40	3 $\frac{3}{8}$
12	8 $\frac{3}{8}$	39	5 $\frac{1}{2}$ - $\frac{1}{16}$	12	10	39	10 $\frac{5}{8}$ - $\frac{1}{16}$	12	11 $\frac{5}{8}$	40	3 $\frac{3}{4}$ - $\frac{1}{16}$
12	8 $\frac{1}{2}$	39	5 $\frac{7}{8}$ - $\frac{1}{16}$	12	10 $\frac{1}{8}$	39	11 $\frac{1}{16}$	12	11 $\frac{3}{4}$	40	4 $\frac{1}{8}$ - $\frac{1}{16}$
12	8 $\frac{5}{8}$	39	6 $\frac{3}{8}$	12	10 $\frac{1}{4}$	39	11 $\frac{3}{8}$ - $\frac{1}{16}$	12	11 $\frac{7}{8}$	40	4 $\frac{1}{2}$ - $\frac{1}{16}$
12	8 $\frac{3}{4}$	39	6 $\frac{3}{4}$	12	10 $\frac{3}{8}$	39	11 $\frac{3}{4}$ - $\frac{1}{16}$	13	0	40	4 $\frac{7}{8}$ - $\frac{1}{16}$
12	8 $\frac{7}{8}$	39	7 $\frac{1}{8}$	12	10 $\frac{1}{2}$	40	0 $\frac{1}{4}$				
12	9	39	7 $\frac{1}{2}$	12	10 $\frac{5}{8}$	40	0 $\frac{5}{8}$				

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	8 $\frac{1}{8}$ - $\frac{1}{16}$	1	1 $\frac{7}{8}$	3	2 $\frac{1}{16}$	1	3 $\frac{3}{4}$	3	7 $\frac{7}{8}$ - $\frac{1}{16}$
1	0 $\frac{1}{8}$	2	8 $\frac{1}{2}$ - $\frac{1}{16}$	1	2	3	2 $\frac{3}{8}$ - $\frac{1}{16}$	1	3 $\frac{7}{8}$	3	8 $\frac{1}{4}$ - $\frac{1}{16}$
1	0 $\frac{1}{4}$	2	8 $\frac{7}{8}$ - $\frac{1}{16}$	1	2 $\frac{1}{8}$	3	2 $\frac{3}{4}$ - $\frac{1}{16}$	1	4	3	8 $\frac{3}{4}$
1	0 $\frac{3}{8}$	2	9 $\frac{1}{4}$ - $\frac{1}{16}$	1	2 $\frac{1}{4}$	3	3 $\frac{1}{4}$	1	4 $\frac{1}{8}$	3	9 $\frac{1}{8}$
1	0 $\frac{1}{2}$	2	9 $\frac{3}{4}$	1	2 $\frac{3}{8}$	3	3 $\frac{5}{8}$	1	4 $\frac{1}{4}$	3	9 $\frac{1}{2}$ - $\frac{1}{16}$
1	0 $\frac{5}{8}$	2	10 $\frac{1}{8}$	1	2 $\frac{1}{2}$	3	4 $\frac{1}{16}$	1	4 $\frac{3}{8}$	3	9 $\frac{7}{8}$ - $\frac{1}{16}$
1	0 $\frac{3}{4}$	2	10 $\frac{1}{2}$ - $\frac{1}{16}$	1	2 $\frac{5}{8}$	3	4 $\frac{3}{8}$ - $\frac{1}{16}$	1	4 $\frac{1}{2}$	3	10 $\frac{1}{4}$ - $\frac{1}{16}$
1	0 $\frac{7}{8}$	2	10 $\frac{7}{8}$ - $\frac{1}{16}$	1	2 $\frac{3}{4}$	3	4 $\frac{3}{4}$ - $\frac{1}{16}$	1	4 $\frac{5}{8}$	3	10 $\frac{5}{8}$ - $\frac{1}{16}$
1	1	2	11 $\frac{1}{4}$ - $\frac{1}{16}$	1	2 $\frac{7}{8}$	3	5 $\frac{1}{8}$ - $\frac{1}{16}$	1	4 $\frac{3}{4}$	3	11 $\frac{1}{16}$
1	1 $\frac{1}{8}$	2	11 $\frac{5}{8}$ - $\frac{1}{16}$	1	3	3	5 $\frac{1}{2}$ - $\frac{1}{16}$	1	4 $\frac{7}{8}$	3	11 $\frac{1}{2}$
1	1 $\frac{1}{4}$	3	0 $\frac{1}{16}$	1	3 $\frac{1}{8}$	3	6	1	5	3	11 $\frac{7}{8}$
1	1 $\frac{3}{8}$	3	0 $\frac{1}{2}$	1	3 $\frac{1}{4}$	3	6 $\frac{3}{8}$	1	5 $\frac{1}{8}$	4	0 $\frac{1}{4}$
1	1 $\frac{1}{2}$	3	0 $\frac{7}{8}$	1	3 $\frac{3}{8}$	3	6 $\frac{3}{4}$ - $\frac{1}{16}$	1	5 $\frac{1}{4}$	4	0 $\frac{5}{8}$ - $\frac{1}{16}$
1	1 $\frac{5}{8}$	3	1 $\frac{1}{4}$ - $\frac{1}{16}$	1	3 $\frac{1}{2}$	3	7 $\frac{1}{8}$ - $\frac{1}{16}$	1	5 $\frac{3}{8}$	4	1 $\frac{1}{16}$
1	1 $\frac{3}{4}$	3	1 $\frac{5}{8}$ - $\frac{1}{16}$	1	3 $\frac{5}{8}$	3	7 $\frac{1}{2}$ - $\frac{1}{16}$	1	5 $\frac{1}{2}$	4	1 $\frac{3}{8}$ - $\frac{1}{16}$

# 174 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$5\frac{5}{8}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	10	5	$3\frac{1}{2}-\frac{1}{16}$	2	$2\frac{3}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	$5\frac{3}{4}$	4	$2\frac{1}{4}$	1	$10\frac{1}{8}$	5	4	2	$2\frac{1}{2}$	6	$5\frac{3}{4}$
1	$5\frac{7}{8}$	4	$2\frac{5}{8}$	1	$10\frac{1}{4}$	5	$4\frac{3}{8}$	2	$2\frac{5}{8}$	6	$6\frac{1}{8}$
1	6	4	$3\frac{1}{16}$	1	$10\frac{3}{8}$	5	$4\frac{3}{4}$	2	$2\frac{3}{4}$	6	$6\frac{1}{2}$
1	$6\frac{1}{8}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$10\frac{1}{2}$	5	$5\frac{1}{8}-\frac{1}{16}$	2	$2\frac{7}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$
1	$6\frac{1}{4}$	4	$3\frac{1}{2}-\frac{1}{16}$	1	$10\frac{5}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	3	6	$7\frac{1}{4}-\frac{1}{16}$
1	$6\frac{3}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$10\frac{3}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	$3\frac{1}{8}$	6	$7\frac{3}{4}$
1	$6\frac{1}{2}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	$10\frac{7}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	$3\frac{1}{4}$	6	$8\frac{1}{8}$
1	$6\frac{5}{8}$	4	5	1	11	5	$6\frac{3}{4}$	2	$3\frac{3}{8}$	6	$8\frac{1}{2}$
1	$6\frac{3}{4}$	4	$5\frac{3}{8}$	1	$11\frac{1}{8}$	5	$7\frac{1}{8}$	2	$3\frac{1}{2}$	6	$8\frac{7}{8}$
1	$6\frac{7}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$11\frac{1}{4}$	5	$7\frac{1}{2}$	2	$3\frac{5}{8}$	6	$9\frac{1}{4}$
1	7	4	$6\frac{5}{8}-\frac{1}{16}$	1	$11\frac{3}{8}$	5	$7\frac{7}{8}$	2	$3\frac{3}{4}$	6	$9\frac{5}{8}-\frac{1}{16}$
1	$7\frac{1}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$11\frac{1}{2}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	$3\frac{7}{8}$	6	$10\frac{1}{16}$
1	$7\frac{1}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$11\frac{5}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	4	6	$10\frac{3}{8}-\frac{1}{16}$
1	$7\frac{3}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$11\frac{3}{4}$	5	$9\frac{1}{16}$	2	$4\frac{1}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	$7\frac{1}{2}$	4	$7\frac{3}{4}$	1	$11\frac{7}{8}$	5	$9\frac{1}{2}$	2	$4\frac{1}{4}$	6	$11\frac{1}{4}$
1	$7\frac{5}{8}$	4	$8\frac{1}{8}$	2	0	5	$9\frac{7}{8}$	2	$4\frac{3}{8}$	6	$11\frac{5}{8}$
1	$7\frac{3}{4}$	4	$8\frac{1}{2}$	2	$0\frac{1}{8}$	5	$10\frac{1}{4}$	2	$4\frac{1}{2}$	7	0
1	$7\frac{7}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	2	$0\frac{1}{4}$	5	$10\frac{3}{8}$	2	$4\frac{5}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$
1	8	4	$9\frac{1}{4}-\frac{1}{16}$	2	$0\frac{3}{8}$	5	$11\frac{1}{16}$	2	$4\frac{3}{4}$	7	$0\frac{3}{4}-\frac{1}{16}$
1	$8\frac{1}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	2	$0\frac{1}{2}$	5	$11\frac{3}{8}-\frac{1}{16}$	2	$4\frac{7}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$
1	$8\frac{1}{4}$	4	$10\frac{1}{16}$	2	$0\frac{5}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	5	7	$1\frac{1}{2}-\frac{1}{16}$
1	$8\frac{3}{8}$	4	$10\frac{1}{2}$	2	$0\frac{3}{4}$	6	$0\frac{1}{4}$	2	$5\frac{1}{8}$	7	2
1	$8\frac{1}{2}$	4	$10\frac{7}{8}$	2	$0\frac{7}{8}$	6	$0\frac{5}{8}$	2	$5\frac{1}{4}$	7	$2\frac{3}{8}$
1	$8\frac{5}{8}$	4	$11\frac{1}{4}$	2	1	6	1	2	$5\frac{3}{8}$	7	$2\frac{3}{4}$
1	$8\frac{3}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	$1\frac{1}{8}$	6	$1\frac{3}{8}$	2	$5\frac{1}{2}$	7	$3\frac{1}{8}$
1	$8\frac{7}{8}$	5	$0\frac{1}{16}$	2	$1\frac{1}{4}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	$5\frac{5}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$
1	9	5	$0\frac{3}{8}-\frac{1}{16}$	2	$1\frac{3}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	$5\frac{3}{4}$	7	$3\frac{7}{8}-\frac{1}{16}$
1	$9\frac{1}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	2	$1\frac{1}{2}$	6	$2\frac{1}{2}-\frac{1}{16}$	2	$5\frac{7}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$
1	$9\frac{1}{4}$	5	$1\frac{1}{4}$	2	$1\frac{5}{8}$	6	3	2	6	7	$4\frac{3}{4}$
1	$9\frac{3}{8}$	5	$1\frac{5}{8}$	2	$1\frac{3}{4}$	6	$3\frac{3}{8}$	2	$6\frac{1}{8}$	7	$5\frac{1}{8}$
1	$9\frac{1}{2}$	5	2	2	$1\frac{7}{8}$	6	$3\frac{3}{4}$	2	$6\frac{1}{4}$	7	$5\frac{1}{2}$
1	$9\frac{5}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	2	2	6	$4\frac{1}{8}$	2	$6\frac{3}{8}$	7	$5\frac{7}{8}$
1	$9\frac{3}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	2	$2\frac{1}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	$6\frac{1}{2}$	7	$6\frac{1}{4}-\frac{1}{16}$
1	$9\frac{7}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	2	$2\frac{1}{4}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$6\frac{5}{8}$	7	$6\frac{5}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 175

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	6 $\frac{3}{4}$	7	7 $\frac{1}{16}$	2	11 $\frac{1}{8}$	8	8 $\frac{7}{8}$	3	3 $\frac{1}{2}$	9	10 $\frac{1}{2}$ - $\frac{1}{16}$
2	6 $\frac{7}{8}$	7	7 $\frac{3}{8}$ - $\frac{1}{16}$	2	11 $\frac{1}{4}$	8	9 $\frac{1}{4}$	3	3 $\frac{5}{8}$	9	11
2	7	7	7 $\frac{7}{8}$	2	11 $\frac{3}{8}$	8	9 $\frac{5}{8}$	3	3 $\frac{3}{4}$	9	11 $\frac{3}{8}$
2	7 $\frac{1}{8}$	7	8 $\frac{1}{4}$	2	11 $\frac{1}{2}$	8	10	3	3 $\frac{7}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$
2	7 $\frac{1}{4}$	7	8 $\frac{5}{8}$	2	11 $\frac{5}{8}$	8	10 $\frac{3}{8}$	3	4	10	0 $\frac{1}{8}$ - $\frac{1}{16}$
2	7 $\frac{3}{8}$	7	9 $\frac{1}{16}$	2	11 $\frac{3}{4}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	4 $\frac{1}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$
2	7 $\frac{1}{2}$	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	2	11 $\frac{7}{8}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{1}{4}$	10	1
2	7 $\frac{5}{8}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	0	8	11 $\frac{5}{8}$	3	4 $\frac{3}{8}$	10	1 $\frac{3}{8}$
2	7 $\frac{3}{4}$	7	10 $\frac{1}{4}$	3	0 $\frac{1}{8}$	9	0	3	4 $\frac{1}{2}$	10	1 $\frac{3}{4}$
2	7 $\frac{7}{8}$	7	10 $\frac{5}{8}$	3	0 $\frac{1}{4}$	9	0 $\frac{3}{8}$	3	4 $\frac{5}{8}$	10	2 $\frac{1}{8}$
2	8	7	11	3	0 $\frac{3}{8}$	9	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	4 $\frac{3}{4}$	10	2 $\frac{1}{2}$
2	8 $\frac{1}{8}$	7	11 $\frac{3}{8}$	3	0 $\frac{1}{2}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{7}{8}$	10	2 $\frac{7}{8}$
2	8 $\frac{1}{4}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{5}{8}$	9	1 $\frac{5}{8}$	3	5	10	3 $\frac{1}{4}$ - $\frac{1}{16}$
2	8 $\frac{3}{8}$	8	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	0 $\frac{3}{4}$	9	2	3	5 $\frac{1}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$
2	8 $\frac{1}{2}$	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	0 $\frac{7}{8}$	9	2 $\frac{3}{8}$	3	5 $\frac{1}{4}$	10	4 $\frac{1}{8}$
2	8 $\frac{5}{8}$	8	1	3	1	9	2 $\frac{3}{4}$	3	5 $\frac{3}{8}$	10	4 $\frac{1}{2}$
2	8 $\frac{3}{4}$	8	1 $\frac{3}{8}$	3	1 $\frac{1}{8}$	9	3 $\frac{1}{8}$	3	5 $\frac{1}{2}$	10	4 $\frac{7}{8}$
2	8 $\frac{7}{8}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$	3	1 $\frac{1}{4}$	9	3 $\frac{1}{2}$	3	5 $\frac{5}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$
2	9	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{3}{8}$	9	3 $\frac{7}{8}$	3	5 $\frac{3}{4}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$
2	9 $\frac{1}{8}$	8	2 $\frac{1}{2}$ - $\frac{1}{16}$	3	1 $\frac{1}{2}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	5 $\frac{7}{8}$	10	6 $\frac{1}{16}$
2	9 $\frac{1}{4}$	8	3	3	1 $\frac{5}{8}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	6	10	6 $\frac{3}{8}$ - $\frac{1}{16}$
2	9 $\frac{3}{8}$	8	3 $\frac{3}{8}$	3	1 $\frac{3}{4}$	9	5 $\frac{1}{16}$	3	6 $\frac{1}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$
2	9 $\frac{1}{2}$	8	3 $\frac{3}{4}$	3	1 $\frac{7}{8}$	9	5 $\frac{1}{2}$	3	6 $\frac{1}{4}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$
2	9 $\frac{5}{8}$	8	4 $\frac{1}{8}$	3	2	9	5 $\frac{7}{8}$	3	6 $\frac{3}{8}$	10	7 $\frac{5}{8}$
2	9 $\frac{3}{4}$	8	4 $\frac{1}{2}$	3	2 $\frac{1}{8}$	9	6 $\frac{1}{4}$ - $\frac{1}{16}$	3	6 $\frac{1}{2}$	10	8
2	9 $\frac{7}{8}$	8	4 $\frac{7}{8}$	3	2 $\frac{1}{4}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$	3	6 $\frac{5}{8}$	10	8 $\frac{3}{8}$
2	10	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{3}{8}$	9	7 $\frac{1}{16}$	3	6 $\frac{3}{4}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$
2	10 $\frac{1}{8}$	8	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	2 $\frac{1}{2}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	6 $\frac{7}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$
2	10 $\frac{1}{4}$	8	6 $\frac{1}{16}$	3	2 $\frac{5}{8}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	7	10	9 $\frac{5}{8}$
2	10 $\frac{3}{8}$	8	6 $\frac{1}{2}$	3	2 $\frac{3}{4}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{8}$	10	10
2	10 $\frac{1}{2}$	8	6 $\frac{7}{8}$	3	2 $\frac{7}{8}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	7 $\frac{1}{4}$	10	10 $\frac{3}{8}$
2	10 $\frac{5}{8}$	8	7 $\frac{1}{4}$ - $\frac{1}{16}$	3	3	9	9	3	7 $\frac{3}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$
2	10 $\frac{3}{4}$	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	3	3 $\frac{1}{8}$	9	9 $\frac{3}{8}$	3	7 $\frac{1}{2}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$
2	10 $\frac{7}{8}$	8	8 $\frac{1}{16}$	3	3 $\frac{1}{4}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{5}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$
2	11	8	8 $\frac{1}{2}$	3	3 $\frac{3}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{3}{4}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$

# 176 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$7\frac{7}{8}$	11	$0\frac{1}{4}-\frac{1}{16}$	4	$0\frac{1}{4}$	12	$2\frac{1}{16}$	4	$4\frac{5}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$
3	8	11	$0\frac{5}{8}-\frac{1}{16}$	4	$0\frac{3}{8}$	12	$2\frac{1}{2}$	4	$4\frac{3}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$
3	$8\frac{1}{8}$	11	$1\frac{1}{16}$	4	$0\frac{1}{2}$	12	$2\frac{7}{8}$	4	$4\frac{7}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$
3	$8\frac{1}{4}$	11	$1\frac{1}{2}$	4	$0\frac{3}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	5	13	5
3	$8\frac{3}{8}$	11	$1\frac{7}{8}$	4	$0\frac{3}{4}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$5\frac{1}{8}$	13	$5\frac{3}{8}$
3	$8\frac{1}{2}$	11	$2\frac{1}{4}-\frac{1}{16}$	4	$0\frac{7}{8}$	12	$4\frac{1}{16}$	4	$5\frac{1}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$
3	$8\frac{5}{8}$	11	$2\frac{5}{8}-\frac{1}{16}$	4	1	12	$4\frac{3}{8}-\frac{1}{16}$	4	$5\frac{3}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$
3	$8\frac{3}{4}$	11	$3\frac{1}{16}$	4	$1\frac{1}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	$5\frac{1}{2}$	13	$6\frac{1}{2}-\frac{1}{16}$
3	$8\frac{7}{8}$	11	$3\frac{1}{2}$	4	$1\frac{1}{4}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$5\frac{5}{8}$	13	7
3	9	11	$3\frac{7}{8}$	4	$1\frac{3}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	$5\frac{3}{4}$	13	$7\frac{3}{8}$
3	$9\frac{1}{8}$	11	$4\frac{1}{4}-\frac{1}{16}$	4	$1\frac{1}{2}$	12	6	4	$5\frac{7}{8}$	13	$7\frac{3}{4}$
3	$9\frac{1}{4}$	11	$4\frac{5}{8}-\frac{1}{16}$	4	$1\frac{5}{8}$	12	$6\frac{3}{8}$	4	6	13	$8\frac{1}{8}$
3	$9\frac{3}{8}$	11	$5\frac{1}{16}$	4	$1\frac{3}{4}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$6\frac{1}{8}$	13	$8\frac{1}{2}$
3	$9\frac{1}{2}$	11	$5\frac{3}{8}-\frac{1}{16}$	4	$1\frac{7}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$6\frac{1}{4}$	13	$8\frac{7}{8}$
3	$9\frac{5}{8}$	11	$5\frac{3}{4}-\frac{1}{16}$	4	2	12	$7\frac{1}{2}-\frac{1}{16}$	4	$6\frac{3}{8}$	13	$9\frac{1}{4}-\frac{1}{16}$
3	$9\frac{3}{4}$	11	$6\frac{1}{8}-\frac{1}{16}$	4	$2\frac{1}{8}$	12	8	4	$6\frac{1}{2}$	13	$9\frac{5}{8}-\frac{1}{16}$
3	$9\frac{7}{8}$	11	$6\frac{1}{2}-\frac{1}{16}$	4	$2\frac{1}{4}$	12	$8\frac{3}{8}$	4	$6\frac{5}{8}$	13	$10\frac{1}{16}$
3	10	11	7	4	$2\frac{3}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	$6\frac{3}{4}$	13	$10\frac{1}{2}$
3	$10\frac{1}{8}$	11	$7\frac{3}{8}$	4	$2\frac{1}{2}$	12	$9\frac{1}{8}-\frac{1}{16}$	4	$6\frac{7}{8}$	13	$10\frac{7}{8}$
3	$10\frac{1}{4}$	11	$7\frac{3}{4}-\frac{1}{16}$	4	$2\frac{5}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	7	13	$11\frac{1}{4}-\frac{1}{16}$
3	$10\frac{3}{8}$	11	$8\frac{1}{8}-\frac{1}{16}$	4	$2\frac{3}{4}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$7\frac{1}{8}$	13	$11\frac{5}{8}-\frac{1}{16}$
3	$10\frac{1}{2}$	11	$8\frac{1}{2}-\frac{1}{16}$	4	$2\frac{7}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$7\frac{1}{4}$	14	$0\frac{1}{16}$
3	$10\frac{5}{8}$	11	9	4	3	12	$10\frac{5}{8}-\frac{1}{16}$	4	$7\frac{3}{8}$	14	$0\frac{1}{2}$
3	$10\frac{3}{4}$	11	$9\frac{3}{8}$	4	$3\frac{1}{8}$	12	$11\frac{1}{16}$	4	$7\frac{1}{2}$	14	$0\frac{7}{8}$
3	$10\frac{7}{8}$	11	$9\frac{3}{4}-\frac{1}{16}$	4	$3\frac{1}{4}$	12	$11\frac{1}{2}$	4	$7\frac{5}{8}$	14	$1\frac{1}{4}$
3	11	11	$10\frac{1}{8}-\frac{1}{16}$	4	$3\frac{3}{8}$	12	$11\frac{7}{8}$	4	$7\frac{3}{4}$	14	$1\frac{5}{8}$
3	$11\frac{1}{8}$	11	$10\frac{1}{2}-\frac{1}{16}$	4	$3\frac{1}{2}$	13	$0\frac{1}{4}-\frac{1}{16}$	4	$7\frac{7}{8}$	14	2
3	$11\frac{1}{4}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	$3\frac{5}{8}$	13	$0\frac{3}{8}-\frac{1}{16}$	4	8	14	$2\frac{3}{8}$
3	$11\frac{3}{8}$	11	$11\frac{1}{4}-\frac{1}{16}$	4	$3\frac{3}{4}$	13	$1\frac{1}{16}$	4	$8\frac{1}{8}$	14	$2\frac{3}{4}-\frac{1}{16}$
3	$11\frac{1}{2}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	$3\frac{7}{8}$	13	$1\frac{1}{2}$	4	$8\frac{1}{4}$	14	$3\frac{1}{8}-\frac{1}{16}$
3	$11\frac{5}{8}$	12	$0\frac{1}{16}$	4	4	13	$1\frac{7}{8}$	4	$8\frac{3}{8}$	14	$3\frac{1}{2}-\frac{1}{16}$
3	$11\frac{3}{4}$	12	$0\frac{1}{2}$	4	$4\frac{1}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	$8\frac{1}{2}$	14	4
3	$11\frac{7}{8}$	12	$0\frac{7}{8}$	4	$4\frac{1}{4}$	13	$2\frac{3}{8}-\frac{1}{16}$	4	$8\frac{5}{8}$	14	$4\frac{3}{8}$
4	0	12	$1\frac{1}{4}-\frac{1}{16}$	4	$4\frac{3}{8}$	13	$3\frac{1}{16}$	4	$8\frac{3}{4}$	14	$4\frac{3}{4}-\frac{1}{16}$
4	$0\frac{1}{8}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	$4\frac{1}{2}$	13	$3\frac{3}{8}-\frac{1}{16}$	4	$8\frac{7}{8}$	14	$5\frac{1}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 177

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	9	14	$5\frac{1}{2}-\frac{1}{16}$	5	$1\frac{3}{8}$	15	$7\frac{1}{4}-\frac{1}{16}$	5	$5\frac{3}{4}$	16	$9\frac{1}{8}$
4	$9\frac{1}{8}$	14	6	5	$1\frac{1}{2}$	15	$7\frac{5}{8}-\frac{1}{16}$	5	$5\frac{7}{8}$	16	$9\frac{1}{2}$
4	$9\frac{1}{4}$	14	$6\frac{3}{8}$	5	$1\frac{5}{8}$	15	$8\frac{1}{8}$	5	6	16	$9\frac{7}{8}$
4	$9\frac{3}{8}$	14	$6\frac{3}{4}$	5	$1\frac{3}{4}$	15	$8\frac{1}{2}$	5	$6\frac{1}{8}$	16	$10\frac{1}{4}$
4	$9\frac{1}{2}$	14	$7\frac{1}{8}$	5	$1\frac{7}{8}$	15	$8\frac{7}{8}$	5	$6\frac{1}{4}$	16	$10\frac{5}{8}$
4	$9\frac{5}{8}$	14	$7\frac{1}{2}$	5	2	15	$9\frac{1}{4}-\frac{1}{16}$	5	$6\frac{3}{8}$	16	11
4	$9\frac{3}{4}$	14	$7\frac{7}{8}$	5	$2\frac{1}{8}$	15	$9\frac{5}{8}-\frac{1}{16}$	5	$6\frac{1}{2}$	16	$11\frac{3}{8}$
4	$9\frac{7}{8}$	14	$8\frac{1}{4}-\frac{1}{16}$	5	$2\frac{1}{4}$	15	$10\frac{1}{16}$	5	$6\frac{5}{8}$	16	$11\frac{3}{4}-\frac{1}{16}$
4	10	14	$8\frac{3}{8}-\frac{1}{16}$	5	$2\frac{3}{8}$	15	$10\frac{1}{2}$	5	$6\frac{3}{4}$	17	$0\frac{1}{8}-\frac{1}{16}$
4	$10\frac{1}{8}$	14	$9\frac{1}{8}$	5	$2\frac{1}{2}$	15	$10\frac{7}{8}$	5	$6\frac{7}{8}$	17	$0\frac{1}{2}-\frac{1}{16}$
4	$10\frac{1}{4}$	14	$9\frac{1}{2}$	5	$2\frac{5}{8}$	15	$11\frac{1}{4}$	5	7	17	1
4	$10\frac{3}{8}$	14	$9\frac{7}{8}$	5	$2\frac{3}{4}$	15	$11\frac{5}{8}$	5	$7\frac{1}{8}$	17	$1\frac{3}{8}$
4	$10\frac{1}{2}$	14	$10\frac{1}{4}$	5	$2\frac{7}{8}$	16	0	5	$7\frac{1}{4}$	17	$1\frac{3}{4}-\frac{1}{16}$
4	$10\frac{5}{8}$	14	$10\frac{5}{8}-\frac{1}{16}$	5	3	16	$0\frac{3}{8}$	5	$7\frac{3}{8}$	17	$2\frac{1}{8}-\frac{1}{16}$
4	$10\frac{3}{4}$	14	$11\frac{1}{8}$	5	$3\frac{1}{8}$	16	$0\frac{3}{4}-\frac{1}{16}$	5	$7\frac{1}{2}$	17	$2\frac{1}{2}-\frac{1}{16}$
4	$10\frac{7}{8}$	14	$11\frac{1}{2}$	5	$3\frac{1}{4}$	16	$1\frac{1}{8}-\frac{1}{16}$	5	$7\frac{5}{8}$	17	3
4	11	14	$11\frac{7}{8}$	5	$3\frac{3}{8}$	16	$1\frac{1}{2}-\frac{1}{16}$	5	$7\frac{3}{4}$	17	$3\frac{3}{8}$
4	$11\frac{1}{8}$	15	$0\frac{1}{4}$	5	$3\frac{1}{2}$	16	2	5	$7\frac{7}{8}$	17	$3\frac{3}{4}$
4	$11\frac{1}{4}$	15	$0\frac{3}{8}$	5	$3\frac{5}{8}$	16	$2\frac{3}{8}$	5	8	17	$4\frac{1}{8}$
4	$11\frac{3}{8}$	15	1	5	$3\frac{3}{4}$	16	$2\frac{3}{4}-\frac{1}{16}$	5	$8\frac{1}{8}$	17	$4\frac{1}{2}$
4	$11\frac{1}{2}$	15	$1\frac{3}{8}$	5	$3\frac{7}{8}$	16	$3\frac{1}{8}-\frac{1}{16}$	5	$8\frac{1}{4}$	17	$4\frac{7}{8}$
4	$11\frac{5}{8}$	15	$1\frac{3}{4}-\frac{1}{16}$	5	4	16	$3\frac{1}{2}-\frac{1}{16}$	5	$8\frac{3}{8}$	17	$5\frac{1}{4}$
4	$11\frac{3}{4}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	$4\frac{1}{8}$	16	4	5	$8\frac{1}{2}$	17	$5\frac{5}{8}-\frac{1}{16}$
4	$11\frac{7}{8}$	15	$2\frac{1}{2}-\frac{1}{16}$	5	$4\frac{1}{4}$	16	$4\frac{3}{8}$	5	$8\frac{5}{8}$	17	$6\frac{1}{8}$
5	0	15	3	5	$4\frac{3}{8}$	16	$4\frac{3}{4}$	5	$8\frac{3}{4}$	17	$6\frac{1}{2}$
5	$0\frac{1}{8}$	15	$3\frac{3}{8}$	5	$4\frac{1}{2}$	16	$5\frac{1}{8}$	5	$8\frac{7}{8}$	17	$6\frac{7}{8}$
5	$0\frac{1}{4}$	15	$3\frac{3}{4}-\frac{1}{16}$	5	$4\frac{5}{8}$	16	$5\frac{1}{2}$	5	9	17	$7\frac{1}{4}$
5	$0\frac{3}{8}$	15	$4\frac{1}{8}-\frac{1}{16}$	5	$4\frac{3}{4}$	16	$5\frac{7}{8}$	5	$9\frac{1}{8}$	17	$7\frac{5}{8}-\frac{1}{16}$
5	$0\frac{1}{2}$	15	$4\frac{1}{2}-\frac{1}{16}$	5	$4\frac{7}{8}$	16	$6\frac{1}{4}-\frac{1}{16}$	5	$9\frac{1}{4}$	17	$8\frac{1}{8}$
5	$0\frac{5}{8}$	15	5	5	5	16	$6\frac{3}{8}-\frac{1}{16}$	5	$9\frac{3}{8}$	17	$8\frac{1}{2}$
5	$0\frac{3}{4}$	15	$5\frac{3}{8}$	5	$5\frac{1}{8}$	16	$7\frac{1}{8}$	5	$9\frac{1}{2}$	17	$8\frac{7}{8}$
5	$0\frac{7}{8}$	15	$5\frac{3}{4}$	5	$5\frac{1}{4}$	16	$7\frac{1}{2}$	5	$9\frac{5}{8}$	17	$9\frac{1}{4}$
5	1	15	$6\frac{1}{8}$	5	$5\frac{3}{8}$	16	$7\frac{7}{8}$	5	$9\frac{3}{4}$	17	$9\frac{5}{8}$
5	$1\frac{1}{8}$	15	$6\frac{1}{2}$	5	$5\frac{1}{2}$	16	$8\frac{1}{4}-\frac{1}{16}$	5	$9\frac{7}{8}$	17	10
5	$1\frac{1}{4}$	15	$6\frac{7}{8}$	5	$5\frac{5}{8}$	16	$8\frac{5}{8}-\frac{1}{16}$	5	10	17	$10\frac{3}{8}$

# 178 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	$10\frac{1}{8}$	17	$10\frac{3}{4}-\frac{1}{16}$	6	$2\frac{1}{2}$	19	$0\frac{1}{2}-\frac{1}{16}$	6	$6\frac{7}{8}$	20	$2\frac{1}{4}-\frac{1}{16}$
5	$10\frac{1}{4}$	17	$11\frac{1}{8}-\frac{1}{16}$	6	$2\frac{5}{8}$	19	$0\frac{7}{8}-\frac{1}{16}$	6	7	20	$2\frac{5}{8}-\frac{1}{16}$
5	$10\frac{3}{8}$	17	$11\frac{1}{2}-\frac{1}{16}$	6	$2\frac{3}{4}$	19	$1\frac{1}{4}-\frac{1}{16}$	6	$7\frac{1}{8}$	20	$3\frac{1}{8}$
5	$10\frac{1}{2}$	18	0	6	$2\frac{7}{8}$	19	$1\frac{5}{8}-\frac{1}{16}$	6	$7\frac{1}{4}$	20	$3\frac{1}{2}$
5	$10\frac{5}{8}$	18	$0\frac{3}{8}$	6	3	19	$2\frac{1}{8}$	6	$7\frac{3}{8}$	20	$3\frac{7}{8}$
5	$10\frac{3}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$	6	$3\frac{1}{8}$	19	$2\frac{1}{2}$	6	$7\frac{1}{2}$	20	$4\frac{1}{4}-\frac{1}{16}$
5	$10\frac{7}{8}$	18	$1\frac{1}{8}-\frac{1}{16}$	6	$3\frac{1}{4}$	19	$2\frac{7}{8}$	6	$7\frac{5}{8}$	20	$4\frac{5}{8}-\frac{1}{16}$
5	11	18	$1\frac{1}{2}-\frac{1}{16}$	6	$3\frac{3}{8}$	19	$3\frac{1}{4}-\frac{1}{16}$	6	$7\frac{3}{4}$	20	$5\frac{1}{16}$
5	$11\frac{1}{8}$	18	$1\frac{7}{8}-\frac{1}{16}$	6	$3\frac{1}{2}$	19	$3\frac{5}{8}-\frac{1}{16}$	6	$7\frac{7}{8}$	20	$5\frac{3}{8}-\frac{1}{16}$
5	$11\frac{1}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$	6	$3\frac{5}{8}$	19	$4\frac{1}{8}$	6	8	20	$5\frac{3}{4}-\frac{1}{16}$
5	$11\frac{3}{8}$	18	$2\frac{3}{8}-\frac{1}{16}$	6	$3\frac{3}{4}$	19	$4\frac{1}{2}$	6	$8\frac{1}{8}$	20	$6\frac{1}{8}-\frac{1}{16}$
5	$11\frac{1}{2}$	18	$3\frac{1}{8}$	6	$3\frac{7}{8}$	19	$4\frac{7}{8}$	6	$8\frac{1}{4}$	20	$6\frac{1}{2}-\frac{1}{16}$
5	$11\frac{5}{8}$	18	$3\frac{1}{2}$	6	4	19	$5\frac{1}{4}-\frac{1}{16}$	6	$8\frac{3}{8}$	20	7
5	$11\frac{3}{4}$	18	$3\frac{7}{8}$	6	$4\frac{1}{8}$	19	$5\frac{5}{8}-\frac{1}{16}$	6	$8\frac{1}{2}$	20	$7\frac{3}{8}$
5	$11\frac{7}{8}$	18	$4\frac{1}{4}-\frac{1}{16}$	6	$4\frac{1}{4}$	19	$6\frac{1}{16}$	6	$8\frac{5}{8}$	20	$7\frac{3}{4}-\frac{1}{16}$
6	0	18	$4\frac{5}{8}-\frac{1}{16}$	6	$4\frac{3}{8}$	19	$6\frac{3}{8}-\frac{1}{16}$	6	$8\frac{3}{4}$	20	$8\frac{1}{8}-\frac{1}{16}$
6	$0\frac{1}{8}$	18	$5\frac{1}{8}$	6	$4\frac{1}{2}$	19	$6\frac{3}{4}-\frac{1}{16}$	6	$8\frac{7}{8}$	20	$8\frac{1}{2}-\frac{1}{16}$
6	$0\frac{1}{4}$	18	$5\frac{1}{2}$	6	$4\frac{5}{8}$	19	$7\frac{1}{8}-\frac{1}{16}$	6	9	20	9
6	$0\frac{3}{8}$	18	$5\frac{7}{8}$	6	$4\frac{3}{4}$	19	$7\frac{1}{2}-\frac{1}{16}$	6	$9\frac{1}{8}$	20	$9\frac{3}{8}$
6	$0\frac{1}{2}$	18	$6\frac{1}{4}-\frac{1}{16}$	6	$4\frac{7}{8}$	19	8	6	$9\frac{1}{4}$	20	$9\frac{3}{4}$
6	$0\frac{5}{8}$	18	$6\frac{5}{8}-\frac{1}{16}$	6	5	19	$8\frac{3}{8}$	6	$9\frac{3}{8}$	20	$10\frac{1}{8}$
6	$0\frac{3}{4}$	18	$7\frac{1}{16}$	6	$5\frac{1}{8}$	19	$8\frac{3}{4}-\frac{1}{16}$	6	$9\frac{1}{2}$	20	$10\frac{1}{2}$
6	$0\frac{7}{8}$	18	$7\frac{3}{8}-\frac{1}{16}$	6	$5\frac{1}{4}$	19	$9\frac{1}{8}-\frac{1}{16}$	6	$9\frac{5}{8}$	20	$10\frac{7}{8}$
6	1	18	$7\frac{3}{4}-\frac{1}{16}$	6	$5\frac{3}{8}$	19	$9\frac{1}{2}-\frac{1}{16}$	6	$9\frac{3}{4}$	20	$11\frac{1}{4}-\frac{1}{16}$
6	$1\frac{1}{8}$	18	$8\frac{1}{8}-\frac{1}{16}$	6	$5\frac{1}{2}$	19	10	6	$9\frac{7}{8}$	20	$11\frac{5}{8}-\frac{1}{16}$
6	$1\frac{1}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$	6	$5\frac{5}{8}$	19	$10\frac{3}{8}$	6	10	21	$0\frac{1}{8}$
6	$1\frac{3}{8}$	18	9	6	$5\frac{3}{4}$	19	$10\frac{3}{4}-\frac{1}{16}$	6	$10\frac{1}{8}$	21	$0\frac{1}{2}$
6	$1\frac{1}{2}$	18	$9\frac{3}{8}$	6	$5\frac{7}{8}$	19	$11\frac{1}{8}-\frac{1}{16}$	6	$10\frac{1}{4}$	21	$0\frac{7}{8}$
6	$1\frac{5}{8}$	18	$9\frac{3}{4}-\frac{1}{16}$	6	6	19	$11\frac{1}{2}-\frac{1}{16}$	6	$10\frac{3}{8}$	21	$1\frac{1}{4}-\frac{1}{16}$
6	$1\frac{3}{4}$	18	$10\frac{1}{8}-\frac{1}{16}$	6	$6\frac{1}{8}$	19	$11\frac{7}{8}-\frac{1}{16}$	6	$10\frac{1}{2}$	21	$1\frac{5}{8}-\frac{1}{16}$
6	$1\frac{7}{8}$	18	$10\frac{1}{2}-\frac{1}{16}$	6	$6\frac{1}{4}$	20	$0\frac{1}{4}-\frac{1}{16}$	6	$10\frac{5}{8}$	21	$2\frac{1}{8}$
6	2	18	11	6	$6\frac{3}{8}$	20	$0\frac{5}{8}-\frac{1}{16}$	6	$10\frac{3}{4}$	21	$2\frac{1}{2}$
6	$2\frac{1}{8}$	18	$11\frac{3}{8}$	6	$6\frac{1}{2}$	20	$1\frac{1}{8}$	6	$10\frac{7}{8}$	21	$2\frac{7}{8}$
6	$2\frac{1}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$	6	$6\frac{5}{8}$	20	$1\frac{1}{2}$	6	11	21	$3\frac{1}{4}$
6	$2\frac{3}{8}$	19	$0\frac{1}{8}-\frac{1}{16}$	6	$6\frac{3}{4}$	20	$1\frac{7}{8}$	6	$11\frac{1}{8}$	21	$3\frac{5}{8}$

ANGLE-IRON RINGS (FLANGE INSIDE). 179

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	11 $\frac{1}{4}$	21	4	7	3 $\frac{5}{8}$	22	5 $\frac{3}{4}$ - $\frac{1}{16}$	7	8	23	7 $\frac{1}{2}$
6	11 $\frac{3}{8}$	21	4 $\frac{3}{8}$	7	3 $\frac{3}{4}$	22	6 $\frac{1}{8}$ - $\frac{1}{16}$	7	8 $\frac{1}{8}$	23	7 $\frac{7}{8}$
6	11 $\frac{1}{2}$	21	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	3 $\frac{7}{8}$	22	6 $\frac{1}{2}$ - $\frac{1}{16}$	7	8 $\frac{1}{4}$	23	8 $\frac{1}{4}$ - $\frac{1}{16}$
6	11 $\frac{5}{8}$	21	5 $\frac{1}{8}$ - $\frac{1}{16}$	7	4	22	7	7	8 $\frac{3}{8}$	23	8 $\frac{5}{8}$ - $\frac{1}{16}$
6	11 $\frac{3}{4}$	21	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	4 $\frac{1}{8}$	22	7 $\frac{3}{8}$	7	8 $\frac{1}{2}$	23	9 $\frac{1}{16}$
6	11 $\frac{7}{8}$	21	6	7	4 $\frac{1}{4}$	22	7 $\frac{3}{4}$	7	8 $\frac{5}{8}$	23	9 $\frac{1}{2}$
7	0	21	6 $\frac{3}{8}$	7	4 $\frac{3}{8}$	22	8 $\frac{1}{8}$	7	8 $\frac{3}{4}$	23	9 $\frac{7}{8}$
7	0 $\frac{1}{8}$	21	6 $\frac{3}{4}$ - $\frac{1}{16}$	7	4 $\frac{1}{2}$	22	8 $\frac{1}{2}$	7	8 $\frac{7}{8}$	23	10 $\frac{1}{4}$ - $\frac{1}{16}$
7	0 $\frac{1}{4}$	21	7 $\frac{1}{8}$ - $\frac{1}{16}$	7	4 $\frac{5}{8}$	22	8 $\frac{7}{8}$	7	9	23	10 $\frac{5}{8}$ - $\frac{1}{16}$
7	0 $\frac{3}{8}$	21	7 $\frac{1}{2}$ - $\frac{1}{16}$	7	4 $\frac{3}{4}$	22	9 $\frac{1}{4}$ - $\frac{1}{16}$	7	9 $\frac{1}{8}$	23	11 $\frac{1}{16}$
7	0 $\frac{1}{2}$	21	8	7	4 $\frac{7}{8}$	22	9 $\frac{5}{8}$ - $\frac{1}{16}$	7	9 $\frac{1}{4}$	23	11 $\frac{3}{8}$ - $\frac{1}{16}$
7	0 $\frac{5}{8}$	21	8 $\frac{3}{8}$	7	5	22	10 $\frac{1}{8}$	7	9 $\frac{3}{8}$	23	11 $\frac{3}{4}$ - $\frac{1}{16}$
7	0 $\frac{3}{4}$	21	8 $\frac{3}{4}$	7	5 $\frac{1}{8}$	22	10 $\frac{1}{2}$	7	9 $\frac{1}{2}$	24	0 $\frac{1}{8}$ - $\frac{1}{16}$
7	0 $\frac{7}{8}$	21	9 $\frac{1}{8}$	7	5 $\frac{1}{4}$	22	10 $\frac{7}{8}$	7	9 $\frac{5}{8}$	24	0 $\frac{1}{2}$ - $\frac{1}{16}$
7	1	21	9 $\frac{1}{2}$	7	5 $\frac{3}{8}$	22	11 $\frac{1}{4}$ - $\frac{1}{16}$	7	9 $\frac{3}{4}$	24	1
7	1 $\frac{1}{8}$	21	9 $\frac{7}{8}$	7	5 $\frac{1}{2}$	22	11 $\frac{5}{8}$ - $\frac{1}{16}$	7	9 $\frac{7}{8}$	24	1 $\frac{3}{8}$
7	1 $\frac{1}{4}$	21	10 $\frac{1}{4}$ - $\frac{1}{16}$	7	5 $\frac{5}{8}$	23	0 $\frac{1}{8}$	7	10	24	1 $\frac{3}{4}$ - $\frac{1}{16}$
7	1 $\frac{3}{8}$	21	10 $\frac{5}{8}$ - $\frac{1}{16}$	7	5 $\frac{3}{4}$	23	0 $\frac{1}{2}$	7	10 $\frac{1}{8}$	24	2 $\frac{1}{8}$ - $\frac{1}{16}$
7	1 $\frac{1}{2}$	21	11 $\frac{1}{8}$	7	5 $\frac{7}{8}$	23	0 $\frac{7}{8}$	7	10 $\frac{1}{4}$	24	2 $\frac{1}{2}$ - $\frac{1}{16}$
7	1 $\frac{5}{8}$	21	11 $\frac{1}{2}$	7	6	23	1 $\frac{1}{4}$	7	10 $\frac{3}{8}$	24	3
7	1 $\frac{3}{4}$	21	11 $\frac{7}{8}$	7	6 $\frac{1}{8}$	23	1 $\frac{5}{8}$	7	10 $\frac{1}{2}$	24	3 $\frac{3}{8}$
7	1 $\frac{7}{8}$	22	0 $\frac{1}{4}$ - $\frac{1}{16}$	7	6 $\frac{1}{4}$	23	2	7	10 $\frac{5}{8}$	24	3 $\frac{3}{4}$ - $\frac{1}{16}$
7	2	22	0 $\frac{5}{8}$ - $\frac{1}{16}$	7	6 $\frac{3}{8}$	23	2 $\frac{3}{8}$	7	10 $\frac{3}{4}$	24	4 $\frac{1}{8}$ - $\frac{1}{16}$
7	2 $\frac{1}{8}$	22	1 $\frac{1}{8}$	7	6 $\frac{1}{2}$	23	2 $\frac{3}{4}$ - $\frac{1}{16}$	7	10 $\frac{7}{8}$	24	4 $\frac{1}{2}$ - $\frac{1}{16}$
7	2 $\frac{1}{4}$	22	1 $\frac{1}{2}$	7	6 $\frac{5}{8}$	23	3 $\frac{1}{8}$ - $\frac{1}{16}$	7	11	24	5
7	2 $\frac{3}{8}$	22	1 $\frac{7}{8}$	7	6 $\frac{3}{4}$	23	3 $\frac{1}{2}$ - $\frac{1}{16}$	7	11 $\frac{1}{8}$	24	5 $\frac{3}{8}$
7	2 $\frac{1}{2}$	22	2 $\frac{1}{4}$	7	6 $\frac{7}{8}$	23	4	7	11 $\frac{1}{4}$	24	5 $\frac{3}{4}$
7	2 $\frac{5}{8}$	22	2 $\frac{5}{8}$	7	7	23	4 $\frac{3}{8}$	7	11 $\frac{3}{8}$	24	6 $\frac{1}{8}$
7	2 $\frac{3}{4}$	22	3	7	7 $\frac{1}{8}$	23	4 $\frac{3}{4}$ - $\frac{1}{16}$	7	11 $\frac{1}{2}$	24	6 $\frac{1}{2}$
7	2 $\frac{7}{8}$	22	3 $\frac{3}{8}$	7	7 $\frac{1}{4}$	23	5 $\frac{1}{8}$ - $\frac{1}{16}$	7	11 $\frac{5}{8}$	24	6 $\frac{7}{8}$
7	3	22	3 $\frac{3}{4}$ - $\frac{1}{16}$	7	7 $\frac{3}{8}$	23	5 $\frac{1}{2}$ - $\frac{1}{16}$	7	11 $\frac{3}{4}$	24	7 $\frac{1}{4}$ - $\frac{1}{16}$
7	3 $\frac{1}{8}$	22	4 $\frac{1}{8}$ - $\frac{1}{16}$	7	7 $\frac{1}{2}$	23	6	7	11 $\frac{7}{8}$	24	7 $\frac{5}{8}$ - $\frac{1}{16}$
7	3 $\frac{1}{4}$	22	4 $\frac{1}{2}$ - $\frac{1}{16}$	7	7 $\frac{5}{8}$	23	6 $\frac{3}{8}$	8	0	24	8 $\frac{1}{8}$
7	3 $\frac{3}{8}$	22	5	7	7 $\frac{3}{4}$	23	6 $\frac{3}{4}$	8	0 $\frac{1}{8}$	24	8 $\frac{1}{2}$
7	3 $\frac{1}{2}$	22	5 $\frac{3}{8}$	7	7 $\frac{7}{8}$	23	7 $\frac{1}{8}$	8	0 $\frac{1}{4}$	24	8 $\frac{7}{8}$

180 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$0\frac{3}{8}$	24	$9\frac{1}{4}-\frac{1}{16}$	8	$4\frac{3}{4}$	25	11	8	$9\frac{1}{8}$	27	$0\frac{5}{8}-\frac{1}{16}$
8	$0\frac{1}{2}$	24	$9\frac{5}{8}-\frac{1}{16}$	8	$4\frac{1}{8}$	25	$11\frac{3}{8}$	8	$9\frac{1}{4}$	27	$1\frac{1}{16}$
8	$0\frac{5}{8}$	24	$10\frac{1}{16}$	8	5	25	$11\frac{3}{4}-\frac{1}{16}$	8	$9\frac{3}{8}$	27	$1\frac{1}{2}$
8	$0\frac{3}{4}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	$5\frac{1}{8}$	26	$0\frac{1}{8}-\frac{1}{16}$	8	$9\frac{1}{2}$	27	$1\frac{7}{8}-\frac{1}{16}$
8	$0\frac{7}{8}$	24	$10\frac{3}{4}-\frac{1}{16}$	8	$5\frac{1}{4}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	$9\frac{5}{8}$	27	$2\frac{1}{4}-\frac{1}{16}$
8	1	24	$11\frac{1}{8}-\frac{1}{16}$	8	$5\frac{3}{8}$	26	1	8	$9\frac{3}{4}$	27	$2\frac{5}{8}-\frac{1}{16}$
8	$1\frac{1}{8}$	24	$11\frac{1}{2}-\frac{1}{16}$	8	$5\frac{1}{2}$	26	$1\frac{3}{8}$	8	$9\frac{7}{8}$	27	$3\frac{1}{16}$
8	$1\frac{1}{4}$	25	0	8	$5\frac{5}{8}$	26	$1\frac{3}{4}-\frac{1}{16}$	8	10	27	$3\frac{1}{2}$
8	$1\frac{3}{8}$	25	$0\frac{3}{8}$	8	$5\frac{3}{4}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$10\frac{1}{8}$	27	$3\frac{7}{8}$
8	$1\frac{1}{2}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	$5\frac{7}{8}$	26	$2\frac{1}{2}-\frac{1}{16}$	8	$10\frac{1}{4}$	27	$4\frac{1}{4}$
8	$1\frac{5}{8}$	25	$1\frac{1}{8}-\frac{1}{16}$	8	6	26	$2\frac{7}{8}-\frac{1}{16}$	8	$10\frac{3}{8}$	27	$4\frac{5}{8}-\frac{1}{16}$
8	$1\frac{3}{4}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$6\frac{1}{8}$	26	$3\frac{1}{4}-\frac{1}{16}$	8	$10\frac{1}{2}$	27	$5\frac{1}{16}$
8	$1\frac{7}{8}$	25	2	8	$6\frac{1}{4}$	26	$3\frac{5}{8}-\frac{1}{16}$	8	$10\frac{5}{8}$	27	$5\frac{3}{8}-\frac{1}{16}$
8	2	25	$2\frac{3}{8}$	8	$6\frac{3}{8}$	26	$4\frac{1}{8}$	8	$10\frac{3}{4}$	27	$5\frac{3}{4}-\frac{1}{16}$
8	$2\frac{1}{8}$	25	$2\frac{3}{4}-\frac{1}{16}$	8	$6\frac{1}{2}$	26	$4\frac{1}{2}$	8	$10\frac{7}{8}$	27	$6\frac{1}{4}$
8	$2\frac{1}{4}$	25	$3\frac{1}{8}-\frac{1}{16}$	8	$6\frac{5}{8}$	26	$4\frac{7}{8}$	8	11	27	$6\frac{3}{8}$
8	$2\frac{3}{8}$	25	$3\frac{1}{2}-\frac{1}{16}$	8	$6\frac{3}{4}$	26	$5\frac{1}{4}-\frac{1}{16}$	8	$11\frac{1}{8}$	27	7
8	$2\frac{1}{2}$	25	$3\frac{7}{8}-\frac{1}{16}$	8	$6\frac{7}{8}$	26	$5\frac{5}{8}-\frac{1}{16}$	8	$11\frac{1}{4}$	27	$7\frac{3}{8}-\frac{1}{16}$
8	$2\frac{5}{8}$	25	$4\frac{1}{4}-\frac{1}{16}$	8	7	26	$6\frac{1}{16}$	8	$11\frac{3}{8}$	27	$7\frac{3}{4}-\frac{1}{16}$
8	$2\frac{3}{4}$	25	$4\frac{5}{8}-\frac{1}{16}$	8	$7\frac{1}{8}$	26	$6\frac{3}{8}-\frac{1}{16}$	8	$11\frac{1}{2}$	27	$8\frac{1}{8}-\frac{1}{16}$
8	$2\frac{7}{8}$	25	$5\frac{1}{8}$	8	$7\frac{1}{4}$	26	$6\frac{3}{4}-\frac{1}{16}$	8	$11\frac{5}{8}$	27	$8\frac{1}{2}-\frac{1}{16}$
8	3	25	$5\frac{1}{2}$	8	$7\frac{3}{8}$	26	$7\frac{1}{4}$	8	$11\frac{3}{4}$	27	9
8	$3\frac{1}{8}$	25	$5\frac{7}{8}$	8	$7\frac{1}{2}$	26	$7\frac{5}{8}$	8	$11\frac{7}{8}$	27	$9\frac{3}{8}$
8	$3\frac{1}{4}$	25	$6\frac{1}{4}-\frac{1}{16}$	8	$7\frac{5}{8}$	26	8	9	0	27	$9\frac{3}{4}$
8	$3\frac{3}{8}$	25	$6\frac{5}{8}-\frac{1}{16}$	8	$7\frac{3}{4}$	26	$8\frac{3}{8}-\frac{1}{16}$	9	$0\frac{1}{8}$	27	$10\frac{1}{8}$
8	$3\frac{1}{2}$	25	$7\frac{1}{8}$	8	$7\frac{7}{8}$	26	$8\frac{3}{4}-\frac{1}{16}$	9	$0\frac{1}{4}$	27	$10\frac{1}{2}$
8	$3\frac{5}{8}$	25	$7\frac{1}{2}$	8	8	26	$9\frac{1}{8}-\frac{1}{16}$	9	$0\frac{3}{8}$	27	$10\frac{7}{8}-\frac{1}{16}$
8	$3\frac{3}{4}$	25	$7\frac{7}{8}$	8	$8\frac{1}{8}$	26	$9\frac{1}{2}-\frac{1}{16}$	9	$0\frac{1}{2}$	27	$11\frac{1}{4}-\frac{1}{16}$
8	$3\frac{7}{8}$	25	$8\frac{1}{4}-\frac{1}{16}$	8	$8\frac{1}{4}$	26	10	9	$0\frac{5}{8}$	27	$11\frac{3}{4}$
8	4	25	$8\frac{5}{8}-\frac{1}{16}$	8	$8\frac{3}{8}$	26	$10\frac{3}{8}$	9	$0\frac{3}{4}$	28	$0\frac{1}{8}$
8	$4\frac{1}{8}$	25	$9\frac{1}{16}$	8	$8\frac{1}{2}$	26	$10\frac{3}{4}$	9	$0\frac{7}{8}$	28	$0\frac{1}{2}$
8	$4\frac{1}{4}$	25	$9\frac{3}{8}-\frac{1}{16}$	8	$8\frac{5}{8}$	26	$11\frac{1}{8}-\frac{1}{16}$	9	1	28	$0\frac{7}{8}$
8	$4\frac{3}{8}$	25	$9\frac{3}{4}-\frac{1}{16}$	8	$8\frac{3}{4}$	26	$11\frac{1}{2}-\frac{1}{16}$	9	$1\frac{1}{8}$	28	$1\frac{1}{4}-\frac{1}{16}$
8	$4\frac{1}{2}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	$8\frac{7}{8}$	26	$11\frac{7}{8}-\frac{1}{16}$	9	$1\frac{1}{4}$	28	$1\frac{5}{8}-\frac{1}{16}$
8	$4\frac{5}{8}$	25	$10\frac{1}{2}-\frac{1}{16}$	8	9	27	$0\frac{1}{4}-\frac{1}{16}$	9	$1\frac{3}{8}$	28	$2\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE INSIDE). 181

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	1 $\frac{1}{2}$	28	2 $\frac{1}{2}$	9	5 $\frac{7}{8}$	29	4 $\frac{1}{4}$	9	10 $\frac{1}{4}$	30	6
9	1 $\frac{3}{8}$	28	2 $\frac{7}{8}$	9	6	29	4 $\frac{5}{8}$	9	10 $\frac{3}{8}$	30	6 $\frac{3}{8}$
9	1 $\frac{3}{4}$	28	3 $\frac{1}{4}$	9	6 $\frac{1}{8}$	29	5	9	10 $\frac{1}{2}$	30	6 $\frac{3}{4}$
9	1 $\frac{7}{8}$	28	3 $\frac{5}{8}$	9	6 $\frac{1}{4}$	29	5 $\frac{3}{8}$	9	10 $\frac{5}{8}$	30	7 $\frac{1}{8}$
9	2	28	4	9	6 $\frac{3}{8}$	29	5 $\frac{3}{4}$ - $\frac{1}{16}$	9	10 $\frac{3}{4}$	30	7 $\frac{1}{2}$
9	2 $\frac{1}{8}$	28	4 $\frac{3}{8}$ - $\frac{1}{16}$	9	6 $\frac{1}{2}$	29	6 $\frac{1}{8}$ - $\frac{1}{16}$	9	10 $\frac{7}{8}$	30	7 $\frac{7}{8}$ - $\frac{1}{16}$
9	2 $\frac{1}{4}$	28	4 $\frac{7}{8}$	9	6 $\frac{5}{8}$	29	6 $\frac{1}{2}$ - $\frac{1}{16}$	9	11	30	8 $\frac{1}{4}$ - $\frac{1}{16}$
9	2 $\frac{3}{8}$	28	5 $\frac{1}{4}$	9	6 $\frac{3}{4}$	29	7	9	11 $\frac{1}{8}$	30	8 $\frac{3}{4}$
9	2 $\frac{1}{2}$	28	5 $\frac{5}{8}$	9	6 $\frac{7}{8}$	29	7 $\frac{3}{8}$	9	11 $\frac{1}{4}$	30	9 $\frac{1}{8}$
9	2 $\frac{5}{8}$	28	6	9	7	29	7 $\frac{3}{4}$	9	11 $\frac{3}{8}$	30	9 $\frac{1}{2}$
9	2 $\frac{3}{4}$	28	6 $\frac{3}{8}$	9	7 $\frac{1}{8}$	29	8 $\frac{1}{8}$	9	11 $\frac{1}{2}$	30	9 $\frac{7}{8}$
9	2 $\frac{7}{8}$	28	6 $\frac{3}{4}$ - $\frac{1}{16}$	9	7 $\frac{1}{4}$	29	8 $\frac{1}{2}$ - $\frac{1}{16}$	9	11 $\frac{5}{8}$	30	10 $\frac{1}{4}$
9	3	28	7 $\frac{1}{8}$ - $\frac{1}{16}$	9	7 $\frac{3}{8}$	29	8 $\frac{7}{8}$ - $\frac{1}{16}$	9	11 $\frac{3}{4}$	30	10 $\frac{5}{8}$ - $\frac{1}{16}$
9	3 $\frac{1}{8}$	28	7 $\frac{1}{2}$ - $\frac{1}{16}$	9	7 $\frac{1}{2}$	29	9 $\frac{1}{4}$ - $\frac{1}{16}$	9	11 $\frac{7}{8}$	30	11 $\frac{1}{16}$
9	3 $\frac{1}{4}$	28	8	9	7 $\frac{5}{8}$	29	9 $\frac{3}{4}$	10	0	30	11 $\frac{3}{8}$ - $\frac{1}{16}$
9	3 $\frac{3}{8}$	28	8 $\frac{3}{8}$	9	7 $\frac{3}{4}$	29	10 $\frac{1}{8}$	10	0 $\frac{1}{8}$	30	11 $\frac{3}{4}$ - $\frac{1}{16}$
9	3 $\frac{1}{2}$	28	8 $\frac{3}{4}$	9	7 $\frac{7}{8}$	29	10 $\frac{1}{2}$	10	0 $\frac{1}{4}$	31	0 $\frac{1}{4}$
9	3 $\frac{5}{8}$	28	9 $\frac{1}{8}$	9	8	29	10 $\frac{7}{8}$	10	0 $\frac{3}{8}$	31	0 $\frac{5}{8}$
9	3 $\frac{3}{4}$	28	9 $\frac{1}{2}$	9	8 $\frac{1}{8}$	29	11 $\frac{1}{4}$ - $\frac{1}{16}$	10	0 $\frac{1}{2}$	31	1
9	3 $\frac{7}{8}$	28	9 $\frac{7}{8}$ - $\frac{1}{16}$	9	8 $\frac{1}{4}$	29	11 $\frac{5}{8}$ - $\frac{1}{16}$	10	0 $\frac{5}{8}$	31	1 $\frac{3}{8}$ - $\frac{1}{16}$
9	4	28	10 $\frac{1}{4}$ - $\frac{1}{16}$	9	8 $\frac{3}{8}$	30	0 $\frac{1}{16}$	10	0 $\frac{3}{4}$	31	1 $\frac{3}{4}$ - $\frac{1}{16}$
9	4 $\frac{1}{8}$	28	10 $\frac{3}{4}$	9	8 $\frac{1}{2}$	30	0 $\frac{3}{8}$ - $\frac{1}{16}$	10	0 $\frac{7}{8}$	31	2 $\frac{1}{4}$
9	4 $\frac{1}{4}$	28	11 $\frac{1}{8}$	9	8 $\frac{5}{8}$	30	0 $\frac{7}{8}$	10	1	31	2 $\frac{5}{8}$
9	4 $\frac{3}{8}$	28	11 $\frac{1}{2}$	9	8 $\frac{3}{4}$	30	1 $\frac{1}{4}$	10	1 $\frac{1}{8}$	31	3
9	4 $\frac{1}{2}$	28	11 $\frac{7}{8}$	9	8 $\frac{7}{8}$	30	1 $\frac{5}{8}$	10	1 $\frac{1}{4}$	31	3 $\frac{3}{8}$
9	4 $\frac{5}{8}$	29	0 $\frac{1}{4}$ - $\frac{1}{16}$	9	9	30	2	10	1 $\frac{3}{8}$	31	3 $\frac{3}{4}$
9	4 $\frac{3}{4}$	29	0 $\frac{5}{8}$ - $\frac{1}{16}$	9	9 $\frac{1}{8}$	30	2 $\frac{3}{8}$ - $\frac{1}{16}$	10	1 $\frac{1}{2}$	31	4 $\frac{1}{8}$
9	4 $\frac{7}{8}$	29	1 $\frac{1}{16}$	9	9 $\frac{1}{4}$	30	2 $\frac{3}{4}$ - $\frac{1}{16}$	10	1 $\frac{5}{8}$	31	4 $\frac{1}{2}$ - $\frac{1}{16}$
9	5	29	1 $\frac{1}{2}$	9	9 $\frac{3}{8}$	30	3 $\frac{1}{4}$	10	1 $\frac{3}{4}$	31	5
9	5 $\frac{1}{8}$	29	1 $\frac{7}{8}$	9	9 $\frac{1}{2}$	30	3 $\frac{3}{8}$	10	1 $\frac{7}{8}$	31	5 $\frac{3}{8}$
9	5 $\frac{1}{4}$	29	2 $\frac{1}{4}$	9	9 $\frac{5}{8}$	30	4	10	2	31	5 $\frac{3}{4}$
9	5 $\frac{3}{8}$	29	2 $\frac{5}{8}$	9	9 $\frac{3}{4}$	30	4 $\frac{3}{8}$	10	2 $\frac{1}{8}$	31	6 $\frac{1}{8}$
9	5 $\frac{1}{2}$	29	3	9	9 $\frac{7}{8}$	30	4 $\frac{3}{4}$	10	2 $\frac{1}{4}$	31	6 $\frac{1}{2}$
9	5 $\frac{5}{8}$	29	3 $\frac{3}{8}$ - $\frac{1}{16}$	9	10	30	5 $\frac{1}{8}$ - $\frac{1}{16}$	10	2 $\frac{3}{8}$	31	6 $\frac{7}{8}$ - $\frac{1}{16}$
9	5 $\frac{3}{4}$	29	3 $\frac{3}{4}$ - $\frac{1}{16}$	9	10 $\frac{1}{8}$	30	5 $\frac{1}{2}$ - $\frac{1}{16}$	10	2 $\frac{1}{2}$	31	7 $\frac{1}{4}$ - $\frac{1}{16}$

# 182      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	$2\frac{5}{8}$	31	$7\frac{5}{8}-\frac{1}{16}$	10	7	32	$9\frac{3}{8}-\frac{1}{16}$	10	$11\frac{3}{8}$	33	$11\frac{1}{8}-\frac{1}{16}$
10	$2\frac{3}{4}$	31	$8\frac{1}{8}$	10	$7\frac{1}{8}$	32	$9\frac{3}{4}-\frac{1}{16}$	10	$11\frac{1}{2}$	33	$11\frac{1}{2}-\frac{1}{16}$
10	$2\frac{7}{8}$	31	$8\frac{1}{2}$	10	$7\frac{1}{4}$	32	$10\frac{1}{4}$	10	$11\frac{5}{8}$	34	0
10	3	31	$8\frac{7}{8}$	10	$7\frac{3}{8}$	32	$10\frac{5}{8}$	10	$11\frac{3}{4}$	34	$0\frac{3}{8}$
10	$3\frac{1}{8}$	31	$9\frac{1}{4}$	10	$7\frac{1}{2}$	32	11	10	$11\frac{7}{8}$	34	$0\frac{3}{4}$
10	$3\frac{1}{4}$	31	$9\frac{3}{8}-\frac{1}{16}$	10	$7\frac{5}{8}$	32	$11\frac{3}{8}-\frac{1}{16}$	11	0	34	$1\frac{1}{8}-\frac{1}{16}$
10	$3\frac{3}{8}$	31	$10\frac{1}{16}$	10	$7\frac{3}{4}$	32	$11\frac{3}{4}-\frac{1}{16}$	11	$0\frac{1}{8}$	34	$1\frac{1}{2}-\frac{1}{16}$
10	$3\frac{1}{2}$	31	$10\frac{3}{8}-\frac{1}{16}$	10	$7\frac{7}{8}$	33	$0\frac{1}{4}$	11	$0\frac{1}{4}$	34	$1\frac{7}{8}-\frac{1}{16}$
10	$3\frac{5}{8}$	31	$10\frac{7}{8}$	10	8	33	$0\frac{5}{8}$	11	$0\frac{3}{8}$	34	$2\frac{1}{4}-\frac{1}{16}$
10	$3\frac{3}{4}$	31	$11\frac{1}{4}$	10	$8\frac{1}{8}$	33	1	11	$0\frac{1}{2}$	34	$2\frac{3}{4}$
10	$3\frac{7}{8}$	31	$11\frac{5}{8}$	10	$8\frac{1}{4}$	33	$1\frac{3}{8}$	11	$0\frac{5}{8}$	34	$3\frac{1}{8}$
10	4	32	0	10	$8\frac{3}{8}$	33	$1\frac{3}{4}$	11	$0\frac{3}{4}$	34	$3\frac{1}{2}$
10	$4\frac{1}{8}$	32	$0\frac{3}{8}-\frac{1}{16}$	10	$8\frac{1}{2}$	33	$2\frac{1}{8}-\frac{1}{16}$	11	$0\frac{7}{8}$	34	$3\frac{7}{8}-\frac{1}{16}$
10	$4\frac{1}{4}$	32	$0\frac{3}{4}-\frac{1}{16}$	10	$8\frac{5}{8}$	33	$2\frac{1}{2}-\frac{1}{16}$	11	1	34	$4\frac{1}{4}-\frac{1}{16}$
10	$4\frac{3}{8}$	32	$1\frac{1}{8}-\frac{1}{16}$	10	$8\frac{3}{4}$	33	3	11	$1\frac{1}{8}$	34	$4\frac{5}{8}-\frac{1}{16}$
10	$4\frac{1}{2}$	32	$1\frac{5}{8}$	10	$8\frac{7}{8}$	33	$3\frac{3}{8}$	11	$1\frac{1}{4}$	34	$5\frac{1}{16}$
10	$4\frac{5}{8}$	32	2	10	9	33	$3\frac{3}{4}$	11	$1\frac{3}{8}$	34	$5\frac{1}{2}$
10	$4\frac{3}{4}$	32	$2\frac{3}{8}$	10	$9\frac{1}{8}$	33	$4\frac{1}{8}$	11	$1\frac{1}{2}$	34	$5\frac{7}{8}$
10	$4\frac{7}{8}$	32	$2\frac{3}{4}-\frac{1}{16}$	10	$9\frac{1}{4}$	33	$4\frac{1}{2}$	11	$1\frac{5}{8}$	34	$6\frac{1}{4}$
10	5	32	$3\frac{1}{8}-\frac{1}{16}$	10	$9\frac{3}{8}$	33	$4\frac{7}{8}$	11	$1\frac{3}{4}$	34	$6\frac{5}{8}-\frac{1}{16}$
10	$5\frac{1}{8}$	32	$3\frac{1}{2}-\frac{1}{16}$	10	$9\frac{1}{2}$	33	$5\frac{1}{4}-\frac{1}{16}$	11	$1\frac{7}{8}$	34	$7\frac{1}{16}$
10	$5\frac{1}{4}$	32	$3\frac{7}{8}-\frac{1}{16}$	10	$9\frac{5}{8}$	33	$5\frac{5}{8}-\frac{1}{16}$	11	2	34	$7\frac{3}{8}-\frac{1}{16}$
10	$5\frac{3}{8}$	32	$4\frac{3}{8}$	10	$9\frac{3}{4}$	33	$6\frac{1}{16}$	11	$2\frac{1}{8}$	34	$7\frac{3}{4}-\frac{1}{16}$
10	$5\frac{1}{2}$	32	$4\frac{3}{4}$	10	$9\frac{7}{8}$	33	$6\frac{1}{2}$	11	$2\frac{1}{4}$	34	$8\frac{1}{4}$
10	$5\frac{5}{8}$	32	$5\frac{1}{8}$	10	10	33	$6\frac{7}{8}$	11	$2\frac{3}{8}$	34	$8\frac{5}{8}$
10	$5\frac{3}{4}$	32	$5\frac{1}{2}$	10	$10\frac{1}{8}$	33	$7\frac{1}{4}$	11	$2\frac{1}{2}$	34	9
10	$5\frac{7}{8}$	32	$5\frac{7}{8}-\frac{1}{16}$	10	$10\frac{1}{4}$	33	$7\frac{5}{8}-\frac{1}{16}$	11	$2\frac{5}{8}$	34	$9\frac{3}{8}$
10	6	32	$6\frac{1}{4}-\frac{1}{16}$	10	$10\frac{3}{8}$	33	$8\frac{1}{16}$	11	$2\frac{3}{4}$	34	$9\frac{3}{4}-\frac{1}{16}$
10	$6\frac{1}{8}$	32	$6\frac{5}{8}-\frac{1}{16}$	10	$10\frac{1}{2}$	33	$8\frac{3}{8}-\frac{1}{16}$	11	$2\frac{7}{8}$	34	$10\frac{1}{8}-\frac{1}{16}$
10	$6\frac{1}{4}$	32	$7\frac{1}{8}$	10	$10\frac{5}{8}$	33	$8\frac{7}{8}$	11	3	34	$10\frac{1}{2}-\frac{1}{16}$
10	$6\frac{3}{8}$	32	$7\frac{1}{2}$	10	$10\frac{3}{4}$	33	$9\frac{1}{4}$	11	$3\frac{1}{8}$	34	11
10	$6\frac{1}{2}$	32	$7\frac{7}{8}$	10	$10\frac{7}{8}$	33	$9\frac{5}{8}$	11	$3\frac{1}{4}$	34	$11\frac{3}{8}$
10	$6\frac{5}{8}$	32	$8\frac{1}{4}$	10	11	33	10	11	$3\frac{3}{8}$	34	$11\frac{3}{4}$
10	$6\frac{3}{4}$	32	$8\frac{5}{8}-\frac{1}{16}$	10	$11\frac{1}{8}$	33	$10\frac{3}{8}-\frac{1}{16}$	11	$3\frac{1}{2}$	35	$0\frac{1}{8}$
10	$6\frac{7}{8}$	32	$9\frac{1}{16}$	10	$11\frac{1}{4}$	33	$10\frac{3}{4}-\frac{1}{16}$	11	$3\frac{5}{8}$	35	$0\frac{1}{2}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 183

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	$3\frac{3}{4}$	35	$0\frac{7}{8}-\frac{1}{16}$	11	$8\frac{1}{8}$	36	$2\frac{5}{8}-\frac{1}{16}$	12	$0\frac{1}{2}$	37	$4\frac{3}{8}-\frac{1}{16}$
11	$3\frac{7}{8}$	35	$1\frac{1}{4}-\frac{1}{16}$	11	$8\frac{1}{4}$	36	$3\frac{1}{16}$	12	$0\frac{5}{8}$	37	$4\frac{3}{4}-\frac{1}{16}$
11	4	35	$1\frac{3}{4}$	11	$8\frac{3}{8}$	36	$3\frac{1}{2}$	12	$0\frac{3}{4}$	37	$5\frac{1}{4}$
11	$4\frac{1}{8}$	35	$2\frac{1}{8}$	11	$8\frac{1}{2}$	36	$3\frac{7}{8}$	12	$0\frac{7}{8}$	37	$5\frac{5}{8}$
11	$4\frac{1}{4}$	35	$2\frac{1}{2}$	11	$8\frac{5}{8}$	36	$4\frac{1}{4}$	12	1	37	6
11	$4\frac{3}{8}$	35	$2\frac{7}{8}$	11	$8\frac{3}{4}$	36	$4\frac{5}{8}$	12	$1\frac{1}{8}$	37	$6\frac{3}{8}$
11	$4\frac{1}{2}$	35	$3\frac{1}{4}-\frac{1}{16}$	11	$8\frac{7}{8}$	36	5	12	$1\frac{1}{4}$	37	$6\frac{3}{4}$
11	$4\frac{5}{8}$	35	$3\frac{5}{8}-\frac{1}{16}$	11	9	36	$5\frac{3}{8}-\frac{1}{16}$	12	$1\frac{3}{8}$	37	$7\frac{1}{8}-\frac{1}{16}$
11	$4\frac{3}{4}$	35	$4\frac{1}{16}$	11	$9\frac{1}{8}$	36	$5\frac{3}{4}-\frac{1}{16}$	12	$1\frac{1}{2}$	37	$7\frac{1}{2}-\frac{1}{16}$
11	$4\frac{7}{8}$	35	$4\frac{1}{2}$	11	$9\frac{1}{4}$	36	$6\frac{1}{4}$	12	$1\frac{5}{8}$	37	$7\frac{7}{8}-\frac{1}{16}$
11	5	35	$4\frac{7}{8}$	11	$9\frac{3}{8}$	36	$6\frac{5}{8}$	12	$1\frac{3}{4}$	37	$8\frac{3}{8}$
11	$5\frac{1}{8}$	35	$5\frac{1}{4}$	11	$9\frac{1}{2}$	36	7	12	$1\frac{7}{8}$	37	$8\frac{3}{4}$
11	$5\frac{1}{4}$	35	$5\frac{5}{8}$	11	$9\frac{5}{8}$	36	$7\frac{3}{8}$	12	2	37	$9\frac{1}{8}$
11	$5\frac{3}{8}$	35	$6\frac{1}{8}$	11	$9\frac{3}{4}$	36	$7\frac{3}{4}-\frac{1}{16}$	12	$2\frac{1}{8}$	37	$9\frac{1}{2}$
11	$5\frac{1}{2}$	35	$6\frac{3}{8}-\frac{1}{16}$	11	$9\frac{7}{8}$	36	$8\frac{1}{8}-\frac{1}{16}$	12	$2\frac{1}{4}$	37	$9\frac{7}{8}$
11	$5\frac{5}{8}$	35	$6\frac{3}{4}-\frac{1}{16}$	11	10	36	$8\frac{1}{2}-\frac{1}{16}$	12	$2\frac{3}{8}$	37	$10\frac{1}{4}-\frac{1}{16}$
11	$5\frac{3}{4}$	35	$7\frac{1}{4}$	11	$10\frac{1}{8}$	36	9	12	$2\frac{1}{2}$	37	$10\frac{3}{4}$
11	$5\frac{7}{8}$	35	$7\frac{5}{8}$	11	$10\frac{1}{4}$	36	$9\frac{3}{8}$	12	$2\frac{5}{8}$	37	$11\frac{1}{8}$
11	6	35	8	11	$10\frac{3}{8}$	36	$9\frac{3}{4}$	12	$2\frac{3}{4}$	37	$11\frac{1}{2}$
11	$6\frac{1}{8}$	35	$8\frac{3}{8}-\frac{1}{16}$	11	$10\frac{1}{2}$	36	$10\frac{1}{8}$	12	$2\frac{7}{8}$	37	$11\frac{7}{8}-\frac{1}{16}$
11	$6\frac{1}{4}$	35	$8\frac{3}{4}-\frac{1}{16}$	11	$10\frac{5}{8}$	36	$10\frac{1}{2}-\frac{1}{16}$	12	3	38	$0\frac{1}{4}-\frac{1}{16}$
11	$6\frac{3}{8}$	35	$9\frac{1}{8}-\frac{1}{16}$	11	$10\frac{3}{4}$	36	$10\frac{7}{8}-\frac{1}{16}$	12	$3\frac{1}{8}$	38	$0\frac{3}{4}$
11	$6\frac{1}{2}$	35	$9\frac{1}{2}-\frac{1}{16}$	11	$10\frac{7}{8}$	36	$11\frac{1}{4}-\frac{1}{16}$	12	$3\frac{1}{4}$	38	$1\frac{1}{8}$
11	$6\frac{5}{8}$	35	10	11	11	36	$11\frac{3}{4}$	12	$3\frac{3}{8}$	38	$1\frac{1}{2}$
11	$6\frac{3}{4}$	35	$10\frac{3}{8}$	11	$11\frac{1}{8}$	37	$0\frac{1}{8}$	12	$3\frac{1}{2}$	38	$1\frac{7}{8}$
11	$6\frac{7}{8}$	35	$10\frac{3}{4}$	11	$11\frac{1}{4}$	37	$0\frac{1}{2}$	12	$3\frac{5}{8}$	38	$2\frac{1}{4}$
11	7	35	$11\frac{1}{8}$	11	$11\frac{3}{8}$	37	$0\frac{7}{8}$	12	$3\frac{3}{4}$	38	$2\frac{5}{8}$
11	$7\frac{1}{8}$	35	$11\frac{1}{2}-\frac{1}{16}$	11	$11\frac{1}{2}$	37	$1\frac{1}{4}-\frac{1}{16}$	12	$3\frac{7}{8}$	38	3
11	$7\frac{1}{4}$	35	$11\frac{7}{8}-\frac{1}{16}$	11	$11\frac{5}{8}$	37	$1\frac{5}{8}-\frac{1}{16}$	12	4	38	$3\frac{3}{8}$
11	$7\frac{3}{8}$	36	$0\frac{1}{4}-\frac{1}{16}$	11	$11\frac{3}{4}$	37	$2\frac{1}{16}$	12	$4\frac{1}{8}$	38	$3\frac{3}{4}-\frac{1}{16}$
11	$7\frac{1}{2}$	36	$0\frac{5}{8}-\frac{1}{16}$	11	$11\frac{7}{8}$	37	$2\frac{3}{8}-\frac{1}{16}$	12	$4\frac{1}{4}$	38	$4\frac{1}{8}-\frac{1}{16}$
11	$7\frac{5}{8}$	36	$1\frac{1}{8}$	12	0	37	$2\frac{7}{8}$	12	$4\frac{3}{8}$	38	$4\frac{5}{8}$
11	$7\frac{3}{4}$	36	$1\frac{1}{2}$	12	$0\frac{1}{8}$	37	$3\frac{1}{4}$	12	$4\frac{1}{2}$	38	5
11	$7\frac{7}{8}$	36	$1\frac{7}{8}$	12	$0\frac{1}{4}$	37	$3\frac{5}{8}$	12	$4\frac{5}{8}$	38	$5\frac{3}{8}$
11	8	36	$2\frac{1}{4}-\frac{1}{16}$	12	$0\frac{3}{8}$	37	$4\frac{1}{16}$	12	$4\frac{3}{4}$	38	$5\frac{3}{4}-\frac{1}{16}$

# 184 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{7}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$4\frac{7}{8}$	38	$6\frac{1}{4}$	12	$7\frac{3}{8}$	39	2	12	$9\frac{7}{8}$	39	$9\frac{7}{8}$
12	5	38	$6\frac{5}{8}$	12	$7\frac{1}{2}$	39	$2\frac{3}{8}-\frac{1}{16}$	12	10	39	$10\frac{1}{4}-\frac{1}{16}$
12	$5\frac{1}{8}$	38	7	12	$7\frac{5}{8}$	39	$2\frac{3}{4}-\frac{1}{16}$	12	$10\frac{1}{8}$	39	$10\frac{5}{8}-\frac{1}{16}$
12	$5\frac{1}{4}$	38	$7\frac{3}{8}$	12	$7\frac{3}{4}$	39	$3\frac{1}{4}$	12	$10\frac{1}{4}$	39	$11\frac{1}{16}$
12	$5\frac{3}{8}$	38	$7\frac{3}{4}$	12	$7\frac{7}{8}$	39	$3\frac{5}{8}$	12	$10\frac{3}{8}$	39	$11\frac{3}{8}-\frac{1}{16}$
12	$5\frac{1}{2}$	38	$8\frac{1}{8}$	12	8	39	4	12	$10\frac{1}{2}$	39	$11\frac{3}{4}-\frac{1}{16}$
12	$5\frac{5}{8}$	38	$8\frac{1}{2}-\frac{1}{16}$	12	$8\frac{1}{8}$	39	$4\frac{3}{8}-\frac{1}{16}$	12	$10\frac{5}{8}$	40	$0\frac{1}{4}$
12	$5\frac{3}{4}$	38	$8\frac{7}{8}-\frac{1}{16}$	12	$8\frac{1}{4}$	39	$4\frac{3}{4}-\frac{1}{16}$	12	$10\frac{3}{4}$	40	$0\frac{5}{8}$
12	$5\frac{7}{8}$	38	$9\frac{1}{4}-\frac{1}{16}$	12	$8\frac{3}{8}$	39	$5\frac{1}{8}-\frac{1}{16}$	12	$10\frac{7}{8}$	40	1
12	6	38	$9\frac{3}{4}$	12	$8\frac{1}{2}$	39	$5\frac{1}{2}-\frac{1}{16}$	12	11	40	$1\frac{3}{8}-\frac{1}{16}$
12	$6\frac{1}{8}$	38	$10\frac{1}{8}$	12	$8\frac{5}{8}$	39	$5\frac{7}{8}-\frac{1}{16}$	12	$11\frac{1}{8}$	40	$1\frac{3}{4}-\frac{1}{16}$
12	$6\frac{1}{4}$	38	$10\frac{1}{2}$	12	$8\frac{3}{4}$	39	$6\frac{3}{8}$	12	$11\frac{1}{4}$	40	$2\frac{1}{8}-\frac{1}{16}$
12	$6\frac{3}{8}$	38	$10\frac{7}{8}$	12	$8\frac{7}{8}$	39	$6\frac{3}{4}$	12	$11\frac{3}{8}$	40	$2\frac{1}{2}-\frac{1}{16}$
12	$6\frac{1}{2}$	38	$11\frac{1}{4}$	12	9	39	$7\frac{1}{8}$	12	$11\frac{1}{2}$	40	$2\frac{7}{8}-\frac{1}{16}$
12	$6\frac{5}{8}$	38	$11\frac{5}{8}-\frac{1}{16}$	12	$9\frac{1}{8}$	39	$7\frac{1}{2}$	12	$11\frac{5}{8}$	40	$3\frac{3}{8}$
12	$6\frac{3}{4}$	39	$0\frac{1}{16}$	12	$9\frac{1}{4}$	39	$7\frac{7}{8}-\frac{1}{16}$	12	$11\frac{3}{4}$	40	$3\frac{3}{4}-\frac{1}{16}$
12	$6\frac{7}{8}$	39	$0\frac{3}{8}-\frac{1}{16}$	12	$9\frac{3}{8}$	39	$8\frac{1}{4}-\frac{1}{16}$	12	$11\frac{7}{8}$	40	$4\frac{1}{8}-\frac{1}{16}$
12	7	39	$0\frac{7}{8}$	12	$9\frac{1}{2}$	39	$8\frac{5}{8}-\frac{1}{16}$	13	0	40	$4\frac{1}{2}-\frac{1}{16}$
12	$7\frac{1}{8}$	39	$1\frac{1}{4}$	12	$9\frac{5}{8}$	39	$9\frac{1}{8}$				
12	$7\frac{1}{4}$	39	$1\frac{5}{8}$	12	$9\frac{3}{4}$	39	$9\frac{1}{2}$				

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	$7\frac{3}{4}-\frac{1}{16}$	1	1	2	$10\frac{7}{8}-\frac{1}{16}$	1	2	3	$2\frac{1}{16}$
1	$0\frac{1}{8}$	2	$8\frac{1}{8}-\frac{1}{16}$	1	$1\frac{1}{8}$	2	$11\frac{1}{4}-\frac{1}{16}$	1	$2\frac{1}{8}$	3	$2\frac{3}{8}-\frac{1}{16}$
1	$0\frac{1}{4}$	2	$8\frac{1}{2}-\frac{1}{16}$	1	$1\frac{1}{4}$	2	$11\frac{5}{8}-\frac{1}{16}$	1	$2\frac{1}{4}$	3	$2\frac{3}{4}-\frac{1}{16}$
1	$0\frac{3}{8}$	2	$8\frac{7}{8}-\frac{1}{16}$	1	$1\frac{3}{8}$	3	$0\frac{1}{16}$	1	$2\frac{3}{8}$	3	$3\frac{1}{4}$
1	$0\frac{1}{2}$	2	$9\frac{1}{4}-\frac{1}{16}$	1	$1\frac{1}{2}$	3	$0\frac{1}{2}$	1	$2\frac{1}{2}$	3	$3\frac{5}{8}$
1	$0\frac{5}{8}$	2	$9\frac{3}{4}$	1	$1\frac{5}{8}$	3	$0\frac{7}{8}$	1	$2\frac{5}{8}$	3	$4\frac{1}{16}$
1	$0\frac{3}{4}$	2	$10\frac{1}{8}$	1	$1\frac{3}{4}$	3	$1\frac{1}{4}-\frac{1}{16}$	1	$2\frac{3}{4}$	3	$4\frac{3}{8}-\frac{1}{16}$
1	$0\frac{7}{8}$	2	$10\frac{1}{2}-\frac{1}{16}$	1	$1\frac{7}{8}$	3	$1\frac{5}{8}-\frac{1}{16}$	1	$2\frac{7}{8}$	3	$4\frac{3}{4}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 185

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	3	3	$5\frac{1}{8}-\frac{1}{16}$	1	$7\frac{3}{8}$	4	$6\frac{7}{8}-\frac{1}{16}$	1	$11\frac{3}{4}$	5	$8\frac{5}{8}-\frac{1}{16}$
1	$3\frac{1}{8}$	3	$5\frac{1}{2}-\frac{1}{16}$	1	$7\frac{1}{2}$	4	$7\frac{1}{4}-\frac{1}{16}$	1	$11\frac{7}{8}$	5	$9\frac{1}{16}$
1	$3\frac{1}{4}$	3	6	1	$7\frac{5}{8}$	4	$7\frac{3}{4}$	2	0	5	$9\frac{1}{2}$
1	$3\frac{3}{8}$	3	$6\frac{3}{8}$	1	$7\frac{3}{4}$	4	$8\frac{1}{8}$	2	$0\frac{1}{8}$	5	$9\frac{7}{8}$
1	$3\frac{1}{2}$	3	$6\frac{3}{4}-\frac{1}{16}$	1	$7\frac{7}{8}$	4	$8\frac{1}{2}$	2	$0\frac{1}{4}$	5	$10\frac{1}{4}$
1	$3\frac{5}{8}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	8	4	$8\frac{7}{8}-\frac{1}{16}$	2	$0\frac{3}{8}$	5	$10\frac{5}{8}$
1	$3\frac{3}{4}$	3	$7\frac{1}{2}-\frac{1}{16}$	1	$8\frac{1}{8}$	4	$9\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{2}$	5	$11\frac{1}{16}$
1	$3\frac{7}{8}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$8\frac{1}{4}$	4	$9\frac{5}{8}-\frac{1}{16}$	2	$0\frac{5}{8}$	5	$11\frac{3}{8}-\frac{1}{16}$
1	4	3	$8\frac{1}{4}-\frac{1}{16}$	1	$8\frac{3}{8}$	4	$10\frac{1}{16}$	2	$0\frac{3}{4}$	5	$11\frac{3}{4}-\frac{1}{16}$
1	$4\frac{1}{8}$	3	$8\frac{3}{8}$	1	$8\frac{1}{2}$	4	$10\frac{1}{2}$	2	$0\frac{7}{8}$	6	$0\frac{1}{4}$
1	$4\frac{1}{4}$	3	$9\frac{1}{8}$	1	$8\frac{5}{8}$	4	$10\frac{7}{8}$	2	1	6	$0\frac{5}{8}$
1	$4\frac{3}{8}$	3	$9\frac{1}{2}-\frac{1}{16}$	1	$8\frac{3}{4}$	4	$11\frac{1}{4}$	2	$1\frac{1}{8}$	6	1
1	$4\frac{1}{2}$	3	$9\frac{7}{8}-\frac{1}{16}$	1	$8\frac{7}{8}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	$1\frac{1}{4}$	6	$1\frac{3}{8}$
1	$4\frac{5}{8}$	3	$10\frac{1}{4}-\frac{1}{16}$	1	9	5	$0\frac{1}{16}$	2	$1\frac{3}{8}$	6	$1\frac{3}{4}-\frac{1}{16}$
1	$4\frac{3}{4}$	3	$10\frac{5}{8}-\frac{1}{16}$	1	$9\frac{1}{8}$	5	$0\frac{3}{8}-\frac{1}{16}$	2	$1\frac{1}{2}$	6	$2\frac{1}{8}-\frac{1}{16}$
1	$4\frac{7}{8}$	3	$11\frac{1}{16}$	1	$9\frac{1}{4}$	5	$0\frac{3}{4}-\frac{1}{16}$	2	$1\frac{5}{8}$	6	$2\frac{1}{2}-\frac{1}{16}$
1	5	3	$11\frac{1}{2}$	1	$9\frac{3}{8}$	5	$1\frac{1}{4}$	2	$1\frac{3}{4}$	6	3
1	$5\frac{1}{8}$	3	$11\frac{7}{8}$	1	$9\frac{1}{2}$	5	$1\frac{5}{8}$	2	$1\frac{7}{8}$	6	$3\frac{3}{8}$
1	$5\frac{1}{4}$	4	$0\frac{1}{4}$	1	$9\frac{5}{8}$	5	2	2	2	6	$3\frac{3}{4}$
1	$5\frac{3}{8}$	4	$0\frac{5}{8}-\frac{1}{16}$	1	$9\frac{3}{4}$	5	$2\frac{3}{8}-\frac{1}{16}$	2	$2\frac{1}{8}$	6	$4\frac{1}{8}$
1	$5\frac{1}{2}$	4	$1\frac{1}{16}$	1	$9\frac{7}{8}$	5	$2\frac{3}{4}-\frac{1}{16}$	2	$2\frac{1}{4}$	6	$4\frac{1}{2}-\frac{1}{16}$
1	$5\frac{5}{8}$	4	$1\frac{3}{8}-\frac{1}{16}$	1	10	5	$3\frac{3}{8}-\frac{1}{16}$	2	$2\frac{3}{8}$	6	$4\frac{7}{8}-\frac{1}{16}$
1	$5\frac{3}{4}$	4	$1\frac{3}{4}-\frac{1}{16}$	1	$10\frac{1}{8}$	5	$3\frac{1}{2}-\frac{1}{16}$	2	$2\frac{1}{2}$	6	$5\frac{1}{4}-\frac{1}{16}$
1	$5\frac{7}{8}$	4	$2\frac{1}{4}$	1	$10\frac{1}{4}$	5	4	2	$2\frac{5}{8}$	6	$5\frac{3}{4}$
1	6	4	$2\frac{5}{8}$	1	$10\frac{3}{8}$	5	$4\frac{3}{8}$	2	$2\frac{3}{4}$	6	$6\frac{1}{8}$
1	$6\frac{1}{8}$	4	$3\frac{1}{16}$	1	$10\frac{1}{2}$	5	$4\frac{3}{4}$	2	$2\frac{7}{8}$	6	$6\frac{1}{2}$
1	$6\frac{1}{4}$	4	$3\frac{3}{8}-\frac{1}{16}$	1	$10\frac{5}{8}$	5	$5\frac{1}{8}-\frac{1}{16}$	2	3	6	$6\frac{7}{8}-\frac{1}{16}$
1	$6\frac{3}{8}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$10\frac{3}{4}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	$3\frac{1}{8}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	$6\frac{1}{2}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$10\frac{7}{8}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	$3\frac{1}{4}$	6	$7\frac{3}{4}$
1	$6\frac{5}{8}$	4	$4\frac{1}{2}-\frac{1}{16}$	1	11	5	$6\frac{1}{4}-\frac{1}{16}$	2	$3\frac{3}{8}$	6	$8\frac{1}{8}$
1	$6\frac{3}{4}$	4	5	1	$11\frac{1}{8}$	5	$6\frac{3}{4}$	2	$3\frac{1}{2}$	6	$8\frac{1}{2}$
1	$6\frac{7}{8}$	4	$5\frac{3}{8}$	1	$11\frac{1}{4}$	5	$7\frac{1}{8}$	2	$3\frac{5}{8}$	6	$8\frac{7}{8}$
1	7	4	$5\frac{3}{4}-\frac{1}{16}$	1	$11\frac{3}{8}$	5	$7\frac{1}{2}$	2	$3\frac{3}{4}$	6	$9\frac{1}{4}$
1	$7\frac{1}{8}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{2}$	5	$7\frac{7}{8}$	2	$3\frac{7}{8}$	6	$9\frac{5}{8}-\frac{1}{16}$
1	$7\frac{1}{4}$	4	$6\frac{1}{2}-\frac{1}{16}$	1	$11\frac{5}{8}$	5	$8\frac{1}{4}-\frac{1}{16}$	2	4	6	$10\frac{1}{16}$

# 186 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	$4\frac{1}{8}$	6	$10\frac{3}{8}-\frac{1}{16}$	2	$8\frac{1}{2}$	8	$0\frac{1}{8}-\frac{1}{16}$	3	$0\frac{7}{8}$	9	2
2	$4\frac{1}{4}$	6	$10\frac{3}{4}-\frac{1}{16}$	2	$8\frac{5}{8}$	8	$0\frac{1}{2}-\frac{1}{16}$	3	1	9	$2\frac{3}{8}$
2	$4\frac{3}{8}$	6	$11\frac{1}{4}$	2	$8\frac{3}{4}$	8	1	3	$1\frac{1}{8}$	9	$2\frac{3}{4}$
2	$4\frac{1}{2}$	6	$11\frac{5}{8}$	2	$8\frac{7}{8}$	8	$1\frac{3}{8}$	3	$1\frac{1}{4}$	9	$3\frac{1}{8}$
2	$4\frac{5}{8}$	7	0	2	9	8	$1\frac{3}{4}-\frac{1}{16}$	3	$1\frac{3}{8}$	9	$3\frac{1}{2}$
2	$4\frac{3}{4}$	7	$0\frac{3}{8}-\frac{1}{16}$	2	$9\frac{1}{8}$	8	$2\frac{1}{8}-\frac{1}{16}$	3	$1\frac{1}{2}$	9	$3\frac{7}{8}$
2	$4\frac{7}{8}$	7	$0\frac{3}{4}-\frac{1}{16}$	2	$9\frac{1}{4}$	8	$2\frac{1}{2}-\frac{1}{16}$	3	$1\frac{5}{8}$	9	$4\frac{1}{4}-\frac{1}{16}$
2	5	7	$1\frac{1}{8}-\frac{1}{16}$	2	$9\frac{3}{8}$	8	3	3	$1\frac{3}{4}$	9	$4\frac{5}{8}-\frac{1}{16}$
2	$5\frac{1}{8}$	7	$1\frac{1}{2}-\frac{1}{16}$	2	$9\frac{1}{2}$	8	$3\frac{3}{8}$	3	$1\frac{7}{8}$	9	$5\frac{1}{16}$
2	$5\frac{1}{4}$	7	2	2	$9\frac{5}{8}$	8	$3\frac{3}{4}$	3	2	9	$5\frac{1}{2}$
2	$5\frac{3}{8}$	7	$2\frac{3}{8}$	2	$9\frac{3}{4}$	8	$4\frac{1}{8}$	3	$2\frac{1}{8}$	9	$5\frac{7}{8}$
2	$5\frac{1}{2}$	7	$2\frac{3}{4}$	2	$9\frac{7}{8}$	8	$4\frac{1}{2}$	3	$2\frac{1}{4}$	9	$6\frac{1}{4}-\frac{1}{16}$
2	$5\frac{5}{8}$	7	$3\frac{1}{8}$	2	10	8	$4\frac{7}{8}$	3	$2\frac{3}{8}$	9	$6\frac{5}{8}-\frac{1}{16}$
2	$5\frac{3}{4}$	7	$3\frac{1}{2}-\frac{1}{16}$	2	$10\frac{1}{8}$	8	$5\frac{1}{4}-\frac{1}{16}$	3	$2\frac{1}{2}$	9	$7\frac{1}{16}$
2	$5\frac{7}{8}$	7	$3\frac{7}{8}-\frac{1}{16}$	2	$10\frac{1}{4}$	8	$5\frac{5}{8}-\frac{1}{16}$	3	$2\frac{5}{8}$	9	$7\frac{3}{8}-\frac{1}{16}$
2	6	7	$4\frac{1}{4}-\frac{1}{16}$	2	$10\frac{3}{8}$	8	$6\frac{1}{16}$	3	$2\frac{3}{4}$	9	$7\frac{3}{4}-\frac{1}{16}$
2	$6\frac{1}{8}$	7	$4\frac{3}{4}$	2	$10\frac{1}{2}$	8	$6\frac{1}{2}$	3	$2\frac{7}{8}$	9	$8\frac{1}{8}-\frac{1}{16}$
2	$6\frac{1}{4}$	7	$5\frac{1}{8}$	2	$10\frac{5}{8}$	8	$6\frac{7}{8}$	3	3	9	$8\frac{1}{2}-\frac{1}{16}$
2	$6\frac{3}{8}$	7	$5\frac{1}{2}$	2	$10\frac{3}{4}$	8	$7\frac{1}{4}-\frac{1}{16}$	3	$3\frac{1}{8}$	9	9
2	$6\frac{1}{2}$	7	$5\frac{5}{8}$	2	$10\frac{7}{8}$	8	$7\frac{5}{8}-\frac{1}{16}$	3	$3\frac{1}{4}$	9	$9\frac{3}{8}$
2	$6\frac{5}{8}$	7	$6\frac{1}{4}-\frac{1}{16}$	2	11	8	$8\frac{1}{16}$	3	$3\frac{3}{8}$	9	$9\frac{3}{4}-\frac{1}{16}$
2	$6\frac{3}{4}$	7	$6\frac{5}{8}-\frac{1}{16}$	2	$11\frac{1}{8}$	8	$8\frac{1}{2}$	3	$3\frac{1}{2}$	9	$10\frac{1}{8}-\frac{1}{16}$
2	$6\frac{7}{8}$	7	$7\frac{1}{16}$	2	$11\frac{1}{4}$	8	$8\frac{7}{8}$	3	$3\frac{5}{8}$	9	$10\frac{1}{2}-\frac{1}{16}$
2	7	7	$7\frac{3}{8}-\frac{1}{16}$	2	$11\frac{3}{8}$	8	$9\frac{1}{4}$	3	$3\frac{3}{4}$	9	11
2	$7\frac{1}{8}$	7	$7\frac{7}{8}$	2	$11\frac{1}{2}$	8	$9\frac{5}{8}$	3	$3\frac{7}{8}$	9	$11\frac{3}{8}$
2	$7\frac{1}{4}$	7	$8\frac{1}{4}$	2	$11\frac{5}{8}$	8	10	3	4	9	$11\frac{3}{4}-\frac{1}{16}$
2	$7\frac{3}{8}$	7	$8\frac{5}{8}$	2	$11\frac{3}{4}$	8	$10\frac{3}{8}$	3	$4\frac{1}{8}$	10	$0\frac{1}{8}-\frac{1}{16}$
2	$7\frac{1}{2}$	7	$9\frac{1}{16}$	2	$11\frac{7}{8}$	8	$10\frac{3}{4}-\frac{1}{16}$	3	$4\frac{1}{4}$	10	$0\frac{1}{2}-\frac{1}{16}$
2	$7\frac{5}{8}$	7	$9\frac{3}{8}-\frac{1}{16}$	3	0	8	$11\frac{1}{8}-\frac{1}{16}$	3	$4\frac{3}{8}$	10	1
2	$7\frac{3}{4}$	7	$9\frac{3}{4}-\frac{1}{16}$	3	$0\frac{1}{8}$	8	$11\frac{5}{8}$	3	$4\frac{1}{2}$	10	$1\frac{3}{8}$
2	$7\frac{7}{8}$	7	$10\frac{1}{4}$	3	$0\frac{1}{4}$	9	0	3	$4\frac{5}{8}$	10	$1\frac{3}{4}$
2	8	7	$10\frac{5}{8}$	3	$0\frac{3}{8}$	9	$0\frac{3}{8}$	3	$4\frac{3}{4}$	10	$2\frac{1}{8}$
2	$8\frac{1}{8}$	7	11	3	$0\frac{1}{2}$	9	$0\frac{3}{4}-\frac{1}{16}$	3	$4\frac{7}{8}$	10	$2\frac{1}{2}$
2	$8\frac{1}{4}$	7	$11\frac{3}{8}$	3	$0\frac{5}{8}$	9	$1\frac{1}{8}-\frac{1}{16}$	3	5	10	$2\frac{7}{8}$
2	$8\frac{3}{8}$	7	$11\frac{3}{4}-\frac{1}{16}$	3	$0\frac{3}{4}$	9	$1\frac{3}{8}$	3	$5\frac{1}{8}$	10	$3\frac{1}{4}-\frac{1}{16}$

# ANGLE-IRON RINGS (FLANGE INSIDE). 187

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	5 $\frac{1}{4}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$	3	9 $\frac{5}{8}$	11	5 $\frac{3}{8}$ - $\frac{1}{16}$	4	2	12	7 $\frac{1}{8}$ - $\frac{1}{16}$
3	5 $\frac{3}{8}$	10	4 $\frac{1}{8}$	3	9 $\frac{3}{4}$	11	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{1}{8}$	12	7 $\frac{1}{2}$ - $\frac{1}{16}$
3	5 $\frac{1}{2}$	10	4 $\frac{1}{2}$	3	9 $\frac{7}{8}$	11	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{1}{4}$	12	8
3	5 $\frac{5}{8}$	10	4 $\frac{7}{8}$	3	10	11	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	2 $\frac{3}{8}$	12	8 $\frac{3}{8}$
3	5 $\frac{3}{4}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	10 $\frac{1}{8}$	11	7	4	2 $\frac{1}{2}$	12	8 $\frac{3}{4}$ - $\frac{1}{16}$
3	5 $\frac{7}{8}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	10 $\frac{1}{4}$	11	7 $\frac{3}{8}$	4	2 $\frac{5}{8}$	12	9 $\frac{1}{8}$ - $\frac{1}{16}$
3	6	10	6 $\frac{1}{16}$	3	10 $\frac{3}{8}$	11	7 $\frac{3}{4}$ - $\frac{1}{16}$	4	2 $\frac{3}{4}$	12	9 $\frac{1}{2}$ - $\frac{1}{16}$
3	6 $\frac{1}{8}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$	3	10 $\frac{1}{2}$	11	8 $\frac{1}{8}$ - $\frac{1}{16}$	4	2 $\frac{7}{8}$	12	9 $\frac{7}{8}$ - $\frac{1}{16}$
3	6 $\frac{1}{4}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$	3	10 $\frac{5}{8}$	11	8 $\frac{1}{2}$ - $\frac{1}{16}$	4	3	12	10 $\frac{1}{4}$ - $\frac{1}{16}$
3	6 $\frac{3}{8}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$	3	10 $\frac{3}{4}$	11	9	4	3 $\frac{1}{8}$	12	10 $\frac{3}{8}$ - $\frac{1}{16}$
3	6 $\frac{1}{2}$	10	7 $\frac{5}{8}$	3	10 $\frac{7}{8}$	11	9 $\frac{3}{8}$	4	3 $\frac{1}{4}$	12	11 $\frac{1}{16}$
3	6 $\frac{5}{8}$	10	8	3	11	11	9 $\frac{3}{4}$ - $\frac{1}{16}$	4	3 $\frac{3}{8}$	12	11 $\frac{1}{2}$
3	6 $\frac{3}{4}$	10	8 $\frac{3}{8}$	3	11 $\frac{1}{8}$	11	10 $\frac{1}{8}$ - $\frac{1}{16}$	4	3 $\frac{1}{2}$	12	11 $\frac{7}{8}$
3	6 $\frac{7}{8}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$	3	11 $\frac{1}{4}$	11	10 $\frac{1}{2}$ - $\frac{1}{16}$	4	3 $\frac{5}{8}$	13	0 $\frac{1}{4}$ - $\frac{1}{16}$
3	7	10	9 $\frac{1}{8}$ - $\frac{1}{16}$	3	11 $\frac{3}{8}$	11	10 $\frac{7}{8}$ - $\frac{1}{16}$	4	3 $\frac{3}{4}$	13	0 $\frac{5}{8}$ - $\frac{1}{16}$
3	7 $\frac{1}{8}$	10	9 $\frac{5}{8}$	3	11 $\frac{1}{2}$	11	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	3 $\frac{7}{8}$	13	1 $\frac{1}{16}$
3	7 $\frac{1}{4}$	10	10	3	11 $\frac{5}{8}$	11	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	4	13	1 $\frac{1}{2}$
3	7 $\frac{3}{8}$	10	10 $\frac{3}{8}$	3	11 $\frac{3}{4}$	12	0 $\frac{1}{16}$	4	4 $\frac{1}{8}$	13	1 $\frac{7}{8}$
3	7 $\frac{1}{2}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	11 $\frac{7}{8}$	12	0 $\frac{1}{2}$	4	4 $\frac{1}{4}$	13	2 $\frac{1}{4}$ - $\frac{1}{16}$
3	7 $\frac{5}{8}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$	4	0	12	0 $\frac{7}{8}$	4	4 $\frac{3}{8}$	13	2 $\frac{5}{8}$ - $\frac{1}{16}$
3	7 $\frac{3}{4}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$	4	0 $\frac{1}{8}$	12	1 $\frac{1}{4}$ - $\frac{1}{16}$	4	4 $\frac{1}{2}$	13	3 $\frac{1}{16}$
3	7 $\frac{7}{8}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$	4	0 $\frac{1}{4}$	12	1 $\frac{5}{8}$ - $\frac{1}{16}$	4	4 $\frac{5}{8}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$
3	8	11	0 $\frac{1}{4}$ - $\frac{1}{16}$	4	0 $\frac{3}{8}$	12	2 $\frac{1}{16}$	4	4 $\frac{3}{4}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$
3	8 $\frac{1}{8}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$	4	0 $\frac{1}{2}$	12	2 $\frac{1}{2}$	4	4 $\frac{7}{8}$	13	4 $\frac{1}{8}$ - $\frac{1}{16}$
3	8 $\frac{1}{4}$	11	1 $\frac{1}{16}$	4	0 $\frac{5}{8}$	12	2 $\frac{7}{8}$	4	5	13	4 $\frac{1}{2}$ - $\frac{1}{16}$
3	8 $\frac{3}{8}$	11	1 $\frac{1}{2}$	4	0 $\frac{3}{4}$	12	3 $\frac{1}{4}$ - $\frac{1}{16}$	4	5 $\frac{1}{8}$	13	5
3	8 $\frac{1}{2}$	11	1 $\frac{7}{8}$	4	0 $\frac{7}{8}$	12	3 $\frac{5}{8}$ - $\frac{1}{16}$	4	5 $\frac{1}{4}$	13	5 $\frac{3}{8}$
3	8 $\frac{5}{8}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$	4	1	12	4 $\frac{1}{16}$	4	5 $\frac{3}{8}$	13	5 $\frac{3}{4}$ - $\frac{1}{16}$
3	8 $\frac{3}{4}$	11	2 $\frac{5}{8}$ - $\frac{1}{16}$	4	1 $\frac{1}{8}$	12	4 $\frac{3}{8}$ - $\frac{1}{16}$	4	5 $\frac{1}{2}$	13	6 $\frac{1}{8}$ - $\frac{1}{16}$
3	8 $\frac{7}{8}$	11	3 $\frac{1}{16}$	4	1 $\frac{1}{4}$	12	4 $\frac{3}{4}$ - $\frac{1}{16}$	4	5 $\frac{5}{8}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$
3	9	11	3 $\frac{1}{2}$	4	1 $\frac{3}{8}$	12	5 $\frac{1}{8}$ - $\frac{1}{16}$	4	5 $\frac{3}{4}$	13	7
3	9 $\frac{1}{8}$	11	3 $\frac{7}{8}$	4	1 $\frac{1}{2}$	12	5 $\frac{1}{2}$ - $\frac{1}{16}$	4	5 $\frac{7}{8}$	13	7 $\frac{3}{8}$
3	9 $\frac{1}{4}$	11	4 $\frac{1}{4}$ - $\frac{1}{16}$	4	1 $\frac{5}{8}$	12	6	4	6	13	7 $\frac{3}{4}$
3	9 $\frac{3}{8}$	11	4 $\frac{5}{8}$ - $\frac{1}{16}$	4	1 $\frac{3}{4}$	12	6 $\frac{3}{8}$	4	6 $\frac{1}{8}$	13	8 $\frac{1}{8}$
3	9 $\frac{1}{2}$	11	5 $\frac{1}{16}$	4	1 $\frac{7}{8}$	12	6 $\frac{3}{4}$ - $\frac{1}{16}$	4	6 $\frac{1}{4}$	13	8 $\frac{1}{2}$

188 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	$6\frac{3}{8}$	13	$8\frac{7}{8}$	4	$10\frac{3}{4}$	14	$10\frac{5}{8}-\frac{1}{16}$	5	$3\frac{1}{8}$	16	$0\frac{3}{8}$
4	$6\frac{1}{2}$	13	$9\frac{1}{4}-\frac{1}{16}$	4	$10\frac{7}{8}$	14	$11\frac{1}{8}$	5	$3\frac{1}{4}$	16	$0\frac{3}{4}-\frac{1}{16}$
4	$6\frac{5}{8}$	13	$9\frac{5}{8}-\frac{1}{16}$	4	11	14	$11\frac{1}{2}$	5	$3\frac{3}{8}$	16	$1\frac{1}{8}-\frac{1}{16}$
4	$6\frac{3}{4}$	13	$10\frac{1}{16}$	4	$11\frac{1}{8}$	14	$11\frac{7}{8}$	5	$3\frac{1}{2}$	16	$1\frac{1}{2}-\frac{1}{16}$
4	$6\frac{7}{8}$	13	$10\frac{1}{2}$	4	$11\frac{1}{4}$	15	$0\frac{1}{4}$	5	$3\frac{5}{8}$	16	2
4	7	13	$10\frac{7}{8}$	4	$11\frac{3}{8}$	15	$0\frac{5}{8}$	5	$3\frac{3}{4}$	16	$2\frac{3}{8}$
4	$7\frac{1}{8}$	13	$11\frac{1}{4}-\frac{1}{16}$	4	$11\frac{1}{2}$	15	1	5	$3\frac{7}{8}$	16	$2\frac{3}{4}-\frac{1}{16}$
4	$7\frac{1}{4}$	13	$11\frac{5}{8}-\frac{1}{16}$	4	$11\frac{5}{8}$	15	$1\frac{3}{8}$	5	4	16	$3\frac{1}{8}-\frac{1}{16}$
4	$7\frac{3}{8}$	14	$0\frac{1}{16}$	4	$11\frac{3}{4}$	15	$1\frac{3}{4}-\frac{1}{16}$	5	$4\frac{1}{8}$	16	$3\frac{1}{2}-\frac{1}{16}$
4	$7\frac{1}{2}$	14	$0\frac{1}{2}$	4	$11\frac{7}{8}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	$4\frac{1}{4}$	16	4
4	$7\frac{5}{8}$	14	$0\frac{7}{8}$	5	0	15	$2\frac{1}{2}-\frac{1}{16}$	5	$4\frac{3}{8}$	16	$4\frac{3}{8}$
4	$7\frac{3}{4}$	14	$1\frac{1}{4}$	5	$0\frac{1}{8}$	15	3	5	$4\frac{1}{2}$	16	$4\frac{3}{4}$
4	$7\frac{7}{8}$	14	$1\frac{5}{8}$	5	$0\frac{1}{4}$	15	$3\frac{3}{8}$	5	$4\frac{5}{8}$	16	$5\frac{1}{8}$
4	8	14	2	5	$0\frac{3}{8}$	15	$3\frac{3}{4}-\frac{1}{16}$	5	$4\frac{3}{4}$	16	$5\frac{1}{2}$
4	$8\frac{1}{8}$	14	$2\frac{3}{8}$	5	$0\frac{1}{2}$	15	$4\frac{1}{8}-\frac{1}{16}$	5	$4\frac{7}{8}$	16	$5\frac{7}{8}$
4	$8\frac{1}{4}$	14	$2\frac{3}{4}-\frac{1}{16}$	5	$0\frac{5}{8}$	15	$4\frac{1}{2}-\frac{1}{16}$	5	5	16	$6\frac{1}{4}-\frac{1}{16}$
4	$8\frac{3}{8}$	14	$3\frac{1}{8}-\frac{1}{16}$	5	$0\frac{3}{4}$	15	5	5	$5\frac{1}{8}$	16	$6\frac{5}{8}-\frac{1}{16}$
4	$8\frac{1}{2}$	14	$3\frac{1}{2}-\frac{1}{16}$	5	$0\frac{7}{8}$	15	$5\frac{3}{8}$	5	$5\frac{1}{4}$	16	$7\frac{1}{8}$
4	$8\frac{5}{8}$	14	4	5	1	15	$5\frac{3}{4}$	5	$5\frac{3}{8}$	16	$7\frac{1}{2}$
4	$8\frac{3}{4}$	14	$4\frac{3}{8}$	5	$1\frac{1}{8}$	15	$6\frac{1}{8}$	5	$5\frac{1}{2}$	16	$7\frac{7}{8}$
4	$8\frac{7}{8}$	14	$4\frac{3}{4}-\frac{1}{16}$	5	$1\frac{1}{4}$	15	$6\frac{1}{2}$	5	$5\frac{5}{8}$	16	$8\frac{1}{4}-\frac{1}{16}$
4	9	14	$5\frac{1}{8}-\frac{1}{16}$	5	$1\frac{3}{8}$	15	$6\frac{7}{8}$	5	$5\frac{3}{4}$	16	$8\frac{5}{8}-\frac{1}{16}$
4	$9\frac{1}{8}$	14	$5\frac{1}{2}-\frac{1}{16}$	5	$1\frac{1}{2}$	15	$7\frac{1}{4}-\frac{1}{16}$	5	$5\frac{7}{8}$	16	$9\frac{1}{8}$
4	$9\frac{1}{4}$	14	6	5	$1\frac{5}{8}$	15	$7\frac{5}{8}-\frac{1}{16}$	5	6	16	$9\frac{1}{2}$
4	$9\frac{3}{8}$	14	$6\frac{3}{8}$	5	$1\frac{3}{4}$	15	$8\frac{1}{8}$	5	$6\frac{1}{8}$	16	$9\frac{7}{8}$
4	$9\frac{1}{2}$	14	$6\frac{3}{4}$	5	$1\frac{7}{8}$	15	$8\frac{1}{2}$	5	$6\frac{1}{4}$	16	$10\frac{1}{4}$
4	$9\frac{5}{8}$	14	$7\frac{1}{8}$	5	2	15	$8\frac{7}{8}$	5	$6\frac{3}{8}$	16	$10\frac{5}{8}$
4	$9\frac{3}{4}$	14	$7\frac{1}{2}$	5	$2\frac{1}{8}$	15	$9\frac{1}{4}-\frac{1}{16}$	5	$6\frac{1}{2}$	16	11
4	$9\frac{7}{8}$	14	$7\frac{7}{8}$	5	$2\frac{1}{4}$	15	$9\frac{5}{8}-\frac{1}{16}$	5	$6\frac{5}{8}$	16	$11\frac{3}{8}$
4	10	14	$8\frac{1}{4}-\frac{1}{16}$	5	$2\frac{3}{8}$	15	$10\frac{1}{16}$	5	$6\frac{3}{4}$	16	$11\frac{3}{4}-\frac{1}{16}$
4	$10\frac{1}{8}$	14	$8\frac{5}{8}-\frac{1}{16}$	5	$2\frac{1}{2}$	15	$10\frac{1}{2}$	5	$6\frac{7}{8}$	17	$0\frac{1}{8}-\frac{1}{16}$
4	$10\frac{1}{4}$	14	$9\frac{1}{8}$	5	$2\frac{5}{8}$	15	$10\frac{7}{8}$	5	7	17	$0\frac{1}{2}-\frac{1}{16}$
4	$10\frac{3}{8}$	14	$9\frac{1}{2}$	5	$2\frac{3}{4}$	15	$11\frac{1}{4}$	5	$7\frac{1}{8}$	17	1
4	$10\frac{1}{2}$	14	$9\frac{7}{8}$	5	$2\frac{7}{8}$	15	$11\frac{5}{8}$	5	$7\frac{1}{4}$	17	$1\frac{3}{8}$
4	$10\frac{5}{8}$	14	$10\frac{1}{4}$	5	3	16	0	5	$7\frac{3}{8}$	17	$1\frac{3}{4}-\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE INSIDE). 189

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	7 $\frac{1}{2}$	17	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	11 $\frac{7}{8}$	18	3 $\frac{7}{8}$	6	4 $\frac{1}{4}$	19	5 $\frac{5}{8}$ - $\frac{1}{16}$
5	7 $\frac{5}{8}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$	6	0	18	4 $\frac{1}{4}$ - $\frac{1}{16}$	6	4 $\frac{3}{8}$	19	6 $\frac{1}{16}$
5	7 $\frac{3}{4}$	17	3	6	0 $\frac{1}{8}$	18	4 $\frac{5}{8}$ - $\frac{1}{16}$	6	4 $\frac{1}{2}$	19	6 $\frac{3}{8}$ - $\frac{1}{16}$
5	7 $\frac{7}{8}$	17	3 $\frac{3}{8}$	6	0 $\frac{1}{4}$	18	5 $\frac{1}{8}$	6	4 $\frac{5}{8}$	19	6 $\frac{3}{4}$ - $\frac{1}{16}$
5	8	17	3 $\frac{3}{4}$	6	0 $\frac{3}{8}$	18	5 $\frac{1}{2}$	6	4 $\frac{3}{4}$	19	7 $\frac{1}{8}$ - $\frac{1}{16}$
5	8 $\frac{1}{8}$	17	4 $\frac{1}{8}$	6	0 $\frac{1}{2}$	18	5 $\frac{7}{8}$	6	4 $\frac{7}{8}$	19	7 $\frac{1}{2}$ - $\frac{1}{16}$
5	8 $\frac{1}{4}$	17	4 $\frac{1}{2}$	6	0 $\frac{5}{8}$	18	6 $\frac{1}{4}$ - $\frac{1}{16}$	6	5	19	8
5	8 $\frac{3}{8}$	17	4 $\frac{7}{8}$	6	0 $\frac{3}{4}$	18	6 $\frac{5}{8}$ - $\frac{1}{16}$	6	5 $\frac{1}{8}$	19	8 $\frac{3}{8}$
5	8 $\frac{1}{2}$	17	5 $\frac{1}{4}$	6	0 $\frac{7}{8}$	18	7 $\frac{1}{16}$	6	5 $\frac{1}{4}$	19	8 $\frac{3}{4}$ - $\frac{1}{16}$
5	8 $\frac{5}{8}$	17	5 $\frac{3}{8}$ - $\frac{1}{16}$	6	1	18	7 $\frac{3}{8}$ - $\frac{1}{16}$	6	5 $\frac{3}{8}$	19	9 $\frac{1}{8}$ - $\frac{1}{16}$
5	8 $\frac{3}{4}$	17	6 $\frac{1}{8}$	6	1 $\frac{1}{8}$	18	7 $\frac{3}{4}$ - $\frac{1}{16}$	6	5 $\frac{1}{2}$	19	9 $\frac{1}{2}$ - $\frac{1}{16}$
5	8 $\frac{7}{8}$	17	6 $\frac{1}{2}$	6	1 $\frac{1}{4}$	18	8 $\frac{1}{8}$ - $\frac{1}{16}$	6	5 $\frac{5}{8}$	19	10
5	9	17	6 $\frac{7}{8}$	6	1 $\frac{3}{8}$	18	8 $\frac{1}{2}$ - $\frac{1}{16}$	6	5 $\frac{3}{4}$	19	10 $\frac{3}{8}$
5	9 $\frac{1}{8}$	17	7 $\frac{1}{4}$	6	1 $\frac{1}{2}$	18	9	6	5 $\frac{7}{8}$	19	10 $\frac{3}{4}$ - $\frac{1}{16}$
5	9 $\frac{1}{4}$	17	7 $\frac{3}{8}$ - $\frac{1}{16}$	6	1 $\frac{5}{8}$	18	9 $\frac{3}{8}$	6	6	19	11 $\frac{1}{8}$ - $\frac{1}{16}$
5	9 $\frac{3}{8}$	17	8 $\frac{1}{8}$	6	1 $\frac{3}{4}$	18	9 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{1}{8}$	19	11 $\frac{1}{2}$ - $\frac{1}{16}$
5	9 $\frac{1}{2}$	17	8 $\frac{1}{2}$	6	1 $\frac{7}{8}$	18	10 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{1}{4}$	19	11 $\frac{7}{8}$ - $\frac{1}{16}$
5	9 $\frac{5}{8}$	17	8 $\frac{7}{8}$	6	2	18	10 $\frac{1}{2}$ - $\frac{1}{16}$	6	6 $\frac{3}{8}$	20	0 $\frac{1}{4}$ - $\frac{1}{16}$
5	9 $\frac{3}{4}$	17	9 $\frac{1}{4}$	6	2 $\frac{1}{8}$	18	11	6	6 $\frac{1}{2}$	20	0 $\frac{5}{8}$ - $\frac{1}{16}$
5	9 $\frac{7}{8}$	17	9 $\frac{5}{8}$	6	2 $\frac{1}{4}$	18	11 $\frac{3}{8}$	6	6 $\frac{5}{8}$	20	1 $\frac{1}{8}$
5	10	17	10	6	2 $\frac{3}{8}$	18	11 $\frac{3}{4}$ - $\frac{1}{16}$	6	6 $\frac{3}{4}$	20	1 $\frac{1}{2}$
5	10 $\frac{1}{8}$	17	10 $\frac{3}{8}$	6	2 $\frac{1}{2}$	19	0 $\frac{1}{8}$ - $\frac{1}{16}$	6	6 $\frac{7}{8}$	20	1 $\frac{7}{8}$
5	10 $\frac{1}{4}$	17	10 $\frac{3}{4}$ - $\frac{1}{16}$	6	2 $\frac{5}{8}$	19	0 $\frac{1}{2}$ - $\frac{1}{16}$	6	7	20	2 $\frac{1}{4}$ - $\frac{1}{16}$
5	10 $\frac{3}{8}$	17	11 $\frac{1}{8}$ - $\frac{1}{16}$	6	2 $\frac{3}{4}$	19	0 $\frac{7}{8}$ - $\frac{1}{16}$	6	7 $\frac{1}{8}$	20	2 $\frac{5}{8}$ - $\frac{1}{16}$
5	10 $\frac{1}{2}$	17	11 $\frac{1}{2}$ - $\frac{1}{16}$	6	2 $\frac{7}{8}$	19	1 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{1}{4}$	20	3 $\frac{1}{8}$
5	10 $\frac{5}{8}$	18	0	6	3	19	1 $\frac{3}{8}$ - $\frac{1}{16}$	6	7 $\frac{3}{8}$	20	3 $\frac{1}{2}$
5	10 $\frac{3}{4}$	18	0 $\frac{3}{8}$	6	3 $\frac{1}{8}$	19	2 $\frac{1}{8}$	6	7 $\frac{1}{2}$	20	3 $\frac{7}{8}$
5	10 $\frac{7}{8}$	18	0 $\frac{3}{4}$ - $\frac{1}{16}$	6	3 $\frac{1}{4}$	19	2 $\frac{1}{2}$	6	7 $\frac{5}{8}$	20	4 $\frac{1}{4}$ - $\frac{1}{16}$
5	11	18	1 $\frac{1}{8}$ - $\frac{1}{16}$	6	3 $\frac{3}{8}$	19	2 $\frac{7}{8}$	6	7 $\frac{3}{4}$	20	4 $\frac{5}{8}$ - $\frac{1}{16}$
5	11 $\frac{1}{8}$	18	1 $\frac{1}{2}$ - $\frac{1}{16}$	6	3 $\frac{1}{2}$	19	3 $\frac{1}{4}$ - $\frac{1}{16}$	6	7 $\frac{7}{8}$	20	5 $\frac{1}{16}$
5	11 $\frac{1}{4}$	18	1 $\frac{7}{8}$ - $\frac{1}{16}$	6	3 $\frac{5}{8}$	19	3 $\frac{3}{8}$ - $\frac{1}{16}$	6	8	20	5 $\frac{3}{8}$ - $\frac{1}{16}$
5	11 $\frac{3}{8}$	18	2 $\frac{1}{4}$ - $\frac{1}{16}$	6	3 $\frac{3}{4}$	19	4 $\frac{1}{8}$	6	8 $\frac{1}{8}$	20	5 $\frac{3}{4}$ - $\frac{1}{16}$
5	11 $\frac{1}{2}$	18	2 $\frac{5}{8}$ - $\frac{1}{16}$	6	3 $\frac{7}{8}$	19	4 $\frac{1}{2}$	6	8 $\frac{1}{4}$	20	6 $\frac{1}{8}$ - $\frac{1}{16}$
5	11 $\frac{5}{8}$	18	3 $\frac{1}{8}$	6	4	19	4 $\frac{7}{8}$	6	8 $\frac{3}{8}$	20	6 $\frac{1}{2}$ - $\frac{1}{16}$
5	11 $\frac{3}{4}$	18	3 $\frac{1}{2}$	6	4 $\frac{1}{8}$	19	5 $\frac{1}{4}$ - $\frac{1}{16}$	6	8 $\frac{1}{2}$	20	7

# 190 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$8\frac{5}{8}$	20	$7\frac{3}{8}$	7	1	21	$9\frac{1}{8}$	7	$5\frac{3}{8}$	22	$10\frac{7}{8}$
6	$8\frac{3}{4}$	20	$7\frac{3}{4}-\frac{1}{16}$	7	$1\frac{1}{8}$	21	$9\frac{1}{2}$	7	$5\frac{1}{2}$	22	$11\frac{1}{4}-\frac{1}{16}$
6	$8\frac{7}{8}$	20	$8\frac{1}{8}-\frac{1}{16}$	7	$1\frac{1}{4}$	21	$9\frac{7}{8}$	7	$5\frac{5}{8}$	22	$11\frac{5}{8}-\frac{1}{16}$
6	9	20	$8\frac{1}{2}-\frac{1}{16}$	7	$1\frac{3}{8}$	21	$10\frac{1}{4}-\frac{1}{16}$	7	$5\frac{3}{4}$	23	$0\frac{1}{8}$
6	$9\frac{1}{8}$	20	9	7	$1\frac{1}{2}$	21	$10\frac{5}{8}-\frac{1}{16}$	7	$5\frac{7}{8}$	23	$0\frac{1}{2}$
6	$9\frac{1}{4}$	20	$9\frac{3}{8}$	7	$1\frac{5}{8}$	21	$11\frac{1}{8}$	7	6	23	$0\frac{7}{8}$
6	$9\frac{3}{8}$	20	$9\frac{3}{4}$	7	$1\frac{3}{4}$	21	$11\frac{1}{2}$	7	$6\frac{1}{8}$	23	$1\frac{1}{4}$
6	$9\frac{1}{2}$	20	$10\frac{1}{8}$	7	$1\frac{7}{8}$	21	$11\frac{7}{8}$	7	$6\frac{1}{4}$	23	$1\frac{5}{8}$
6	$9\frac{5}{8}$	20	$10\frac{1}{2}$	7	2	22	$0\frac{1}{4}-\frac{1}{16}$	7	$6\frac{3}{8}$	23	2
6	$9\frac{3}{4}$	20	$10\frac{7}{8}$	7	$2\frac{1}{8}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	$6\frac{1}{2}$	23	$2\frac{3}{8}$
6	$9\frac{7}{8}$	20	$11\frac{1}{4}-\frac{1}{16}$	7	$2\frac{1}{4}$	22	$1\frac{1}{8}$	7	$6\frac{5}{8}$	23	$2\frac{3}{4}-\frac{1}{16}$
6	10	20	$11\frac{5}{8}-\frac{1}{16}$	7	$2\frac{3}{8}$	22	$1\frac{1}{2}$	7	$6\frac{3}{4}$	23	$3\frac{1}{8}-\frac{1}{16}$
6	$10\frac{1}{8}$	21	$0\frac{1}{8}$	7	$2\frac{1}{2}$	22	$1\frac{7}{8}$	7	$6\frac{7}{8}$	23	$3\frac{1}{2}-\frac{1}{16}$
6	$10\frac{1}{4}$	21	$0\frac{1}{2}$	7	$2\frac{5}{8}$	22	$2\frac{1}{4}$	7	7	23	4
6	$10\frac{3}{8}$	21	$0\frac{7}{8}$	7	$2\frac{3}{4}$	22	$2\frac{5}{8}$	7	$7\frac{1}{8}$	23	$4\frac{3}{8}$
6	$10\frac{1}{2}$	21	$1\frac{1}{4}-\frac{1}{16}$	7	$2\frac{7}{8}$	22	3	7	$7\frac{1}{4}$	23	$4\frac{3}{4}-\frac{1}{16}$
6	$10\frac{5}{8}$	21	$1\frac{5}{8}-\frac{1}{16}$	7	3	22	$3\frac{3}{8}$	7	$7\frac{3}{8}$	23	$5\frac{1}{8}-\frac{1}{16}$
6	$10\frac{3}{4}$	21	$2\frac{1}{8}$	7	$3\frac{1}{8}$	22	$3\frac{3}{4}-\frac{1}{16}$	7	$7\frac{1}{2}$	23	$5\frac{1}{2}-\frac{1}{16}$
6	$10\frac{7}{8}$	21	$2\frac{1}{2}$	7	$3\frac{1}{4}$	22	$4\frac{1}{8}-\frac{1}{16}$	7	$7\frac{5}{8}$	23	6
6	11	21	$2\frac{7}{8}$	7	$3\frac{3}{8}$	22	$4\frac{1}{2}-\frac{1}{16}$	7	$7\frac{3}{4}$	23	$6\frac{3}{8}$
6	$11\frac{1}{8}$	21	$3\frac{1}{4}$	7	$3\frac{1}{2}$	22	5	7	$7\frac{7}{8}$	23	$6\frac{3}{4}$
6	$11\frac{1}{4}$	21	$3\frac{5}{8}$	7	$3\frac{5}{8}$	22	$5\frac{3}{8}$	7	8	23	$7\frac{1}{8}$
6	$11\frac{3}{8}$	21	4	7	$3\frac{3}{4}$	22	$5\frac{3}{4}-\frac{1}{16}$	7	$8\frac{1}{8}$	23	$7\frac{1}{2}$
6	$11\frac{1}{2}$	21	$4\frac{3}{8}$	7	$3\frac{7}{8}$	22	$6\frac{1}{8}-\frac{1}{16}$	7	$8\frac{1}{4}$	23	$7\frac{7}{8}$
6	$11\frac{5}{8}$	21	$4\frac{3}{4}-\frac{1}{16}$	7	4	22	$6\frac{1}{2}-\frac{1}{16}$	7	$8\frac{3}{8}$	23	$8\frac{1}{4}-\frac{1}{16}$
6	$11\frac{3}{4}$	21	$5\frac{1}{8}-\frac{1}{16}$	7	$4\frac{1}{8}$	22	7	7	$8\frac{1}{2}$	23	$8\frac{5}{8}-\frac{1}{16}$
6	$11\frac{7}{8}$	21	$5\frac{1}{2}-\frac{1}{16}$	7	$4\frac{1}{4}$	22	$7\frac{3}{8}$	7	$8\frac{5}{8}$	23	$9\frac{1}{16}$
7	0	21	6	7	$4\frac{3}{8}$	22	$7\frac{3}{4}$	7	$8\frac{3}{4}$	23	$9\frac{1}{2}$
7	$0\frac{1}{8}$	21	$6\frac{3}{8}$	7	$4\frac{1}{2}$	22	$8\frac{1}{8}$	7	$8\frac{7}{8}$	23	$9\frac{7}{8}$
7	$0\frac{1}{4}$	21	$6\frac{3}{4}-\frac{1}{16}$	7	$4\frac{5}{8}$	22	$8\frac{1}{2}$	7	9	23	$10\frac{1}{4}-\frac{1}{16}$
7	$0\frac{3}{8}$	21	$7\frac{1}{8}-\frac{1}{16}$	7	$4\frac{3}{4}$	22	$8\frac{7}{8}$	7	$9\frac{1}{8}$	23	$10\frac{5}{8}-\frac{1}{16}$
7	$0\frac{1}{2}$	21	$7\frac{1}{2}-\frac{1}{16}$	7	$4\frac{7}{8}$	22	$9\frac{1}{4}-\frac{1}{16}$	7	$9\frac{1}{4}$	23	$11\frac{1}{16}$
7	$0\frac{5}{8}$	21	8	7	5	22	$9\frac{5}{8}-\frac{1}{16}$	7	$9\frac{3}{8}$	23	$11\frac{3}{8}-\frac{1}{16}$
7	$0\frac{3}{4}$	21	$8\frac{3}{8}$	7	$5\frac{1}{8}$	22	$10\frac{1}{8}$	7	$9\frac{1}{2}$	23	$11\frac{3}{4}-\frac{1}{16}$
7	$0\frac{7}{8}$	21	$8\frac{3}{4}$	7	$5\frac{1}{4}$	22	$10\frac{1}{2}$	7	$9\frac{5}{8}$	24	$0\frac{1}{8}-\frac{1}{16}$

# ANGLE-IRON RINGS (FLANGE INSIDE). 191

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	$9\frac{3}{4}$	24	$0\frac{1}{2}-\frac{1}{16}$	8	$2\frac{1}{8}$	25	$2\frac{3}{8}$	8	$6\frac{1}{2}$	26	$4\frac{1}{8}$
7	$9\frac{7}{8}$	24	1	8	$2\frac{1}{4}$	25	$2\frac{3}{4}-\frac{1}{16}$	8	$6\frac{5}{8}$	26	$4\frac{1}{2}$
7	10	24	$1\frac{3}{8}$	8	$2\frac{3}{8}$	25	$3\frac{1}{8}-\frac{1}{16}$	8	$6\frac{3}{4}$	26	$4\frac{7}{8}$
7	$10\frac{1}{8}$	24	$1\frac{3}{4}-\frac{1}{16}$	8	$2\frac{1}{2}$	25	$3\frac{1}{2}-\frac{1}{16}$	8	$6\frac{7}{8}$	26	$5\frac{1}{4}-\frac{1}{16}$
7	$10\frac{1}{4}$	24	$2\frac{1}{8}-\frac{1}{16}$	8	$2\frac{5}{8}$	25	$3\frac{7}{8}-\frac{1}{16}$	8	7	26	$5\frac{5}{8}-\frac{1}{16}$
7	$10\frac{3}{8}$	24	$2\frac{1}{2}-\frac{1}{16}$	8	$2\frac{3}{4}$	25	$4\frac{1}{4}-\frac{1}{16}$	8	$7\frac{1}{8}$	26	$6\frac{1}{16}$
7	$10\frac{1}{2}$	24	3	8	$2\frac{7}{8}$	25	$4\frac{5}{8}-\frac{1}{16}$	8	$7\frac{1}{4}$	26	$6\frac{3}{8}-\frac{1}{16}$
7	$10\frac{5}{8}$	24	$3\frac{3}{8}$	8	3	25	$5\frac{1}{8}$	8	$7\frac{3}{8}$	26	$6\frac{3}{4}-\frac{1}{16}$
7	$10\frac{3}{4}$	24	$3\frac{3}{4}-\frac{1}{16}$	8	$3\frac{1}{8}$	25	$5\frac{1}{2}$	8	$7\frac{1}{2}$	26	$7\frac{1}{4}$
7	$10\frac{7}{8}$	24	$4\frac{1}{8}-\frac{1}{16}$	8	$3\frac{1}{4}$	25	$5\frac{7}{8}$	8	$7\frac{5}{8}$	26	$7\frac{5}{8}$
7	11	24	$4\frac{1}{2}-\frac{1}{16}$	8	$3\frac{3}{8}$	25	$6\frac{1}{4}-\frac{1}{16}$	8	$7\frac{3}{4}$	26	8
7	$11\frac{1}{8}$	24	5	8	$3\frac{1}{2}$	25	$6\frac{3}{8}-\frac{1}{16}$	8	$7\frac{7}{8}$	26	$8\frac{3}{8}-\frac{1}{16}$
7	$11\frac{1}{4}$	24	$5\frac{3}{8}$	8	$3\frac{5}{8}$	25	$7\frac{1}{8}$	8	8	26	$8\frac{3}{4}-\frac{1}{16}$
7	$11\frac{3}{8}$	24	$5\frac{3}{4}$	8	$3\frac{3}{4}$	25	$7\frac{1}{2}$	8	$8\frac{1}{8}$	26	$9\frac{1}{8}-\frac{1}{16}$
7	$11\frac{1}{2}$	24	$6\frac{1}{8}$	8	$3\frac{7}{8}$	25	$7\frac{7}{8}$	8	$8\frac{1}{4}$	26	$9\frac{1}{2}-\frac{1}{16}$
7	$11\frac{5}{8}$	24	$6\frac{1}{2}$	8	4	25	$8\frac{1}{4}-\frac{1}{16}$	8	$8\frac{3}{8}$	26	10
7	$11\frac{3}{4}$	24	$6\frac{7}{8}$	8	$4\frac{1}{8}$	25	$8\frac{5}{8}-\frac{1}{16}$	8	$8\frac{1}{2}$	26	$10\frac{3}{8}$
7	$11\frac{7}{8}$	24	$7\frac{1}{4}-\frac{1}{16}$	8	$4\frac{1}{4}$	25	$9\frac{1}{16}$	8	$8\frac{5}{8}$	26	$10\frac{3}{4}$
8	0	24	$7\frac{5}{8}-\frac{1}{16}$	8	$4\frac{3}{8}$	25	$9\frac{3}{8}-\frac{1}{16}$	8	$8\frac{3}{4}$	26	$11\frac{1}{8}-\frac{1}{16}$
8	$0\frac{1}{8}$	24	$8\frac{1}{8}$	8	$4\frac{1}{2}$	25	$9\frac{3}{4}-\frac{1}{16}$	8	$8\frac{7}{8}$	26	$11\frac{1}{2}-\frac{1}{16}$
8	$0\frac{1}{4}$	24	$8\frac{1}{2}$	8	$4\frac{5}{8}$	25	$10\frac{1}{8}-\frac{1}{16}$	8	9	26	$11\frac{7}{8}-\frac{1}{16}$
8	$0\frac{3}{8}$	24	$8\frac{7}{8}$	8	$4\frac{3}{4}$	25	$10\frac{1}{2}-\frac{1}{16}$	8	$9\frac{1}{8}$	27	$0\frac{1}{4}-\frac{1}{16}$
8	$0\frac{1}{2}$	24	$9\frac{1}{4}-\frac{1}{16}$	8	$4\frac{7}{8}$	25	11	8	$9\frac{1}{4}$	27	$0\frac{5}{8}-\frac{1}{16}$
8	$0\frac{5}{8}$	24	$9\frac{5}{8}-\frac{1}{16}$	8	5	25	$11\frac{3}{8}$	8	$9\frac{3}{8}$	27	$1\frac{1}{16}$
8	$0\frac{3}{4}$	24	$10\frac{1}{16}$	8	$5\frac{1}{8}$	25	$11\frac{3}{4}-\frac{1}{16}$	8	$9\frac{1}{2}$	27	$1\frac{1}{2}$
8	$0\frac{7}{8}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	$5\frac{1}{4}$	26	$0\frac{1}{8}-\frac{1}{16}$	8	$9\frac{5}{8}$	27	$1\frac{7}{8}-\frac{1}{16}$
8	1	24	$10\frac{3}{4}-\frac{1}{16}$	8	$5\frac{3}{8}$	26	$0\frac{1}{2}-\frac{1}{16}$	8	$9\frac{3}{4}$	27	$2\frac{1}{4}-\frac{1}{16}$
8	$1\frac{1}{8}$	24	$11\frac{1}{8}-\frac{1}{16}$	8	$5\frac{1}{2}$	26	1	8	$9\frac{7}{8}$	27	$2\frac{3}{8}-\frac{1}{16}$
8	$1\frac{1}{4}$	24	$11\frac{1}{2}-\frac{1}{16}$	8	$5\frac{5}{8}$	26	$1\frac{3}{8}$	8	10	27	$3\frac{1}{16}$
8	$1\frac{3}{8}$	25	0	8	$5\frac{3}{4}$	26	$1\frac{3}{4}-\frac{1}{16}$	8	$10\frac{1}{8}$	27	$3\frac{1}{2}$
8	$1\frac{1}{2}$	25	$0\frac{3}{8}$	8	$5\frac{7}{8}$	26	$2\frac{1}{8}-\frac{1}{16}$	8	$10\frac{1}{4}$	27	$3\frac{7}{8}$
8	$1\frac{5}{8}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	6	26	$2\frac{1}{2}-\frac{1}{16}$	8	$10\frac{3}{8}$	27	$4\frac{1}{4}$
8	$1\frac{3}{4}$	25	$1\frac{1}{8}-\frac{1}{16}$	8	$6\frac{1}{8}$	26	$2\frac{7}{8}-\frac{1}{16}$	8	$10\frac{1}{2}$	27	$4\frac{5}{8}-\frac{1}{16}$
8	$1\frac{7}{8}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$6\frac{1}{4}$	26	$3\frac{1}{4}-\frac{1}{16}$	8	$10\frac{5}{8}$	27	$5\frac{1}{16}$
8	2	25	2	8	$6\frac{3}{8}$	26	$3\frac{5}{8}-\frac{1}{16}$	8	$10\frac{3}{4}$	27	$5\frac{3}{8}-\frac{1}{16}$

192 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	$10\frac{7}{8}$	27	$5\frac{3}{4}-\frac{1}{16}$	9	$3\frac{1}{4}$	28	$7\frac{1}{2}-\frac{1}{16}$	9	$7\frac{5}{8}$	29	$9\frac{1}{2}-\frac{1}{16}$
8	11	27	$6\frac{1}{4}$	9	$3\frac{3}{8}$	28	8	9	$7\frac{3}{4}$	29	$9\frac{3}{4}$
8	$11\frac{1}{8}$	27	$6\frac{5}{8}$	9	$3\frac{1}{2}$	28	$8\frac{3}{8}$	9	$7\frac{7}{8}$	29	$10\frac{1}{8}$
8	$11\frac{1}{4}$	27	7	9	$3\frac{5}{8}$	28	$8\frac{3}{4}$	9	8	29	$10\frac{1}{2}$
8	$11\frac{3}{8}$	27	$7\frac{3}{8}-\frac{1}{16}$	9	$3\frac{3}{4}$	28	$9\frac{1}{8}$	9	$8\frac{1}{8}$	29	$10\frac{7}{8}$
8	$11\frac{1}{2}$	27	$7\frac{3}{4}-\frac{1}{16}$	9	$3\frac{7}{8}$	28	$9\frac{1}{2}$	9	$8\frac{1}{4}$	29	$11\frac{1}{4}-\frac{1}{16}$
8	$11\frac{5}{8}$	27	$8\frac{1}{8}-\frac{1}{16}$	9	4	28	$9\frac{7}{8}-\frac{1}{16}$	9	$8\frac{3}{8}$	29	$11\frac{5}{8}-\frac{1}{16}$
8	$11\frac{3}{4}$	27	$8\frac{1}{2}-\frac{1}{16}$	9	$4\frac{1}{8}$	28	$10\frac{1}{4}-\frac{1}{16}$	9	$8\frac{1}{2}$	30	$0\frac{1}{16}$
8	$11\frac{7}{8}$	27	9	9	$4\frac{1}{4}$	28	$10\frac{3}{4}$	9	$8\frac{5}{8}$	30	$0\frac{3}{8}-\frac{1}{16}$
9	0	27	$9\frac{3}{8}$	9	$4\frac{3}{8}$	28	$11\frac{1}{8}$	9	$8\frac{3}{4}$	30	$0\frac{7}{8}$
9	$0\frac{1}{8}$	27	$9\frac{3}{4}$	9	$4\frac{1}{2}$	28	$11\frac{1}{2}$	9	$8\frac{7}{8}$	30	$1\frac{1}{4}$
9	$0\frac{1}{4}$	27	$10\frac{1}{8}$	9	$4\frac{5}{8}$	28	$11\frac{7}{8}$	9	9	30	$1\frac{5}{8}$
9	$0\frac{3}{8}$	27	$10\frac{1}{2}$	9	$4\frac{3}{4}$	29	$0\frac{1}{4}-\frac{1}{16}$	9	$9\frac{1}{8}$	30	2
9	$0\frac{1}{2}$	27	$10\frac{7}{8}-\frac{1}{16}$	9	$4\frac{7}{8}$	29	$0\frac{5}{8}-\frac{1}{16}$	9	$9\frac{1}{4}$	30	$2\frac{3}{8}-\frac{1}{16}$
9	$0\frac{5}{8}$	27	$11\frac{1}{4}-\frac{1}{16}$	9	5	29	$1\frac{1}{16}$	9	$9\frac{3}{8}$	30	$2\frac{3}{4}-\frac{1}{16}$
9	$0\frac{3}{4}$	27	$11\frac{3}{4}$	9	$5\frac{1}{8}$	29	$1\frac{1}{2}$	9	$9\frac{1}{2}$	30	$3\frac{1}{4}$
9	$0\frac{7}{8}$	28	$0\frac{1}{8}$	9	$5\frac{1}{4}$	29	$1\frac{7}{8}$	9	$9\frac{5}{8}$	30	$3\frac{5}{8}$
9	1	28	$0\frac{1}{2}$	9	$5\frac{3}{8}$	29	$2\frac{1}{4}$	9	$9\frac{3}{4}$	30	4
9	$1\frac{1}{8}$	28	$0\frac{7}{8}$	9	$5\frac{1}{2}$	29	$2\frac{5}{8}$	9	$9\frac{7}{8}$	30	$4\frac{3}{8}$
9	$1\frac{1}{4}$	28	$1\frac{1}{4}-\frac{1}{16}$	9	$5\frac{5}{8}$	29	3	9	10	30	$4\frac{3}{4}$
9	$1\frac{3}{8}$	28	$1\frac{5}{8}-\frac{1}{16}$	9	$5\frac{3}{4}$	29	$3\frac{3}{8}-\frac{1}{16}$	9	$10\frac{1}{8}$	30	$5\frac{1}{8}-\frac{1}{16}$
9	$1\frac{1}{2}$	28	$2\frac{1}{16}$	9	$5\frac{7}{8}$	29	$3\frac{3}{4}-\frac{1}{16}$	9	$10\frac{1}{4}$	30	$5\frac{1}{2}-\frac{1}{16}$
9	$1\frac{5}{8}$	28	$2\frac{1}{2}$	9	6	29	$4\frac{1}{4}$	9	$10\frac{3}{8}$	30	6
9	$1\frac{3}{4}$	28	$2\frac{7}{8}$	9	$6\frac{1}{8}$	29	$4\frac{5}{8}$	9	$10\frac{1}{2}$	30	$6\frac{3}{8}$
9	$1\frac{7}{8}$	28	$3\frac{1}{4}$	9	$6\frac{1}{4}$	29	5	9	$10\frac{5}{8}$	30	$6\frac{3}{4}$
9	2	28	$3\frac{5}{8}$	9	$6\frac{3}{8}$	29	$5\frac{3}{8}$	9	$10\frac{3}{4}$	30	$7\frac{1}{8}$
9	$2\frac{1}{8}$	28	4	9	$6\frac{1}{2}$	29	$5\frac{3}{4}-\frac{1}{16}$	9	$10\frac{7}{8}$	30	$7\frac{1}{2}$
9	$2\frac{1}{4}$	28	$4\frac{3}{8}-\frac{1}{16}$	9	$6\frac{5}{8}$	29	$6\frac{1}{8}-\frac{1}{16}$	9	11	30	$7\frac{7}{8}-\frac{1}{16}$
9	$2\frac{3}{8}$	28	$4\frac{7}{8}$	9	$6\frac{3}{4}$	29	$6\frac{1}{2}-\frac{1}{16}$	9	$11\frac{1}{8}$	30	$8\frac{1}{4}-\frac{1}{16}$
9	$2\frac{1}{2}$	28	$5\frac{1}{4}$	9	$6\frac{7}{8}$	29	7	9	$11\frac{1}{4}$	30	$8\frac{3}{4}$
9	$2\frac{5}{8}$	28	$5\frac{5}{8}$	9	7	29	$7\frac{3}{8}$	9	$11\frac{3}{8}$	30	$9\frac{1}{8}$
9	$2\frac{3}{4}$	28	6	9	$7\frac{1}{8}$	29	$7\frac{3}{4}$	9	$11\frac{1}{2}$	30	$9\frac{1}{2}$
9	$2\frac{7}{8}$	28	$6\frac{3}{8}$	9	$7\frac{1}{4}$	29	$8\frac{1}{8}$	9	$11\frac{5}{8}$	30	$9\frac{7}{8}$
9	3	28	$6\frac{3}{4}-\frac{1}{16}$	9	$7\frac{3}{8}$	29	$8\frac{1}{2}-\frac{1}{16}$	9	$11\frac{3}{4}$	30	$10\frac{1}{4}$
9	$3\frac{1}{8}$	28	$7\frac{1}{8}-\frac{1}{16}$	9	$7\frac{1}{2}$	29	$8\frac{7}{8}-\frac{1}{16}$	9	$11\frac{7}{8}$	30	$10\frac{5}{8}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 193

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	0	30	$11\frac{1}{16}$	10	$4\frac{3}{8}$	32	$0\frac{3}{4}-\frac{1}{16}$	10	$8\frac{3}{4}$	33	$2\frac{1}{2}-\frac{1}{16}$
10	$0\frac{1}{8}$	30	$11\frac{3}{8}-\frac{1}{16}$	10	$4\frac{1}{2}$	32	$1\frac{1}{8}-\frac{1}{16}$	10	$8\frac{7}{8}$	33	3
10	$0\frac{1}{4}$	30	$11\frac{3}{4}-\frac{1}{16}$	10	$4\frac{5}{8}$	32	$1\frac{5}{8}$	10	9	33	$3\frac{3}{8}$
10	$0\frac{3}{8}$	31	$0\frac{1}{4}$	10	$4\frac{3}{4}$	32	2	10	$9\frac{1}{8}$	33	$3\frac{3}{4}$
10	$0\frac{1}{2}$	31	$0\frac{5}{8}$	10	$4\frac{7}{8}$	32	$2\frac{3}{8}$	10	$9\frac{1}{4}$	33	$4\frac{1}{8}$
10	$0\frac{5}{8}$	31	1	10	5	32	$2\frac{3}{4}-\frac{1}{16}$	10	$9\frac{3}{8}$	33	$4\frac{1}{2}$
10	$0\frac{3}{4}$	31	$1\frac{3}{8}-\frac{1}{16}$	10	$5\frac{1}{8}$	32	$3\frac{1}{8}-\frac{1}{16}$	10	$9\frac{1}{2}$	33	$4\frac{7}{8}$
10	$0\frac{7}{8}$	31	$1\frac{3}{4}-\frac{1}{16}$	10	$5\frac{1}{4}$	32	$3\frac{1}{2}-\frac{1}{16}$	10	$9\frac{5}{8}$	33	$5\frac{1}{4}-\frac{1}{16}$
10	1	31	$2\frac{1}{4}$	10	$5\frac{3}{8}$	32	$3\frac{7}{8}-\frac{1}{16}$	10	$9\frac{3}{4}$	33	$5\frac{5}{8}-\frac{1}{16}$
10	$1\frac{1}{8}$	31	$2\frac{5}{8}$	10	$5\frac{1}{2}$	32	$4\frac{3}{8}$	10	$9\frac{7}{8}$	33	$6\frac{1}{16}$
10	$1\frac{1}{4}$	31	3	10	$5\frac{5}{8}$	32	$4\frac{3}{4}$	10	10	33	$6\frac{1}{2}$
10	$1\frac{3}{8}$	31	$3\frac{3}{8}$	10	$5\frac{3}{4}$	32	$5\frac{1}{8}$	10	$10\frac{1}{8}$	33	$6\frac{7}{8}$
10	$1\frac{1}{2}$	31	$3\frac{3}{4}$	10	$5\frac{7}{8}$	32	$5\frac{1}{2}$	10	$10\frac{1}{4}$	33	$7\frac{1}{4}$
10	$1\frac{5}{8}$	31	$4\frac{1}{8}$	10	6	32	$5\frac{7}{8}-\frac{1}{16}$	10	$10\frac{3}{8}$	33	$7\frac{5}{8}-\frac{1}{16}$
10	$1\frac{3}{4}$	31	$4\frac{1}{2}-\frac{1}{16}$	10	$6\frac{1}{8}$	32	$6\frac{1}{4}-\frac{1}{16}$	10	$10\frac{1}{2}$	33	$8\frac{1}{16}$
10	$1\frac{7}{8}$	31	5	10	$6\frac{1}{4}$	32	$6\frac{5}{8}-\frac{1}{16}$	10	$10\frac{5}{8}$	33	$8\frac{3}{8}-\frac{1}{16}$
10	2	31	$5\frac{3}{8}$	10	$6\frac{3}{8}$	32	$7\frac{1}{8}$	10	$10\frac{3}{4}$	33	$8\frac{7}{8}$
10	$2\frac{1}{8}$	31	$5\frac{3}{4}$	10	$6\frac{1}{2}$	32	$7\frac{1}{2}$	10	$10\frac{7}{8}$	33	$9\frac{1}{4}$
10	$2\frac{1}{4}$	31	$6\frac{1}{8}$	10	$6\frac{5}{8}$	32	$7\frac{7}{8}$	10	11	33	$9\frac{5}{8}$
10	$2\frac{3}{8}$	31	$6\frac{1}{2}$	10	$6\frac{3}{4}$	32	$8\frac{1}{4}$	10	$11\frac{1}{8}$	33	10
10	$2\frac{1}{2}$	31	$6\frac{7}{8}-\frac{1}{16}$	10	$6\frac{7}{8}$	32	$8\frac{5}{8}-\frac{1}{16}$	10	$11\frac{1}{4}$	33	$10\frac{3}{8}-\frac{1}{16}$
10	$2\frac{5}{8}$	31	$7\frac{1}{4}-\frac{1}{16}$	10	7	32	$9\frac{1}{16}$	10	$11\frac{3}{8}$	33	$10\frac{3}{4}-\frac{1}{16}$
10	$2\frac{3}{4}$	31	$7\frac{5}{8}-\frac{1}{16}$	10	$7\frac{1}{8}$	32	$9\frac{3}{8}-\frac{1}{16}$	10	$11\frac{1}{2}$	33	$11\frac{1}{8}-\frac{1}{16}$
10	$2\frac{7}{8}$	31	$8\frac{1}{8}$	10	$7\frac{1}{4}$	32	$9\frac{3}{4}-\frac{1}{16}$	10	$11\frac{5}{8}$	33	$11\frac{1}{2}-\frac{1}{16}$
10	3	31	$8\frac{1}{2}$	10	$7\frac{3}{8}$	32	$10\frac{1}{4}$	10	$11\frac{3}{4}$	34	0
10	$3\frac{1}{8}$	31	$8\frac{7}{8}$	10	$7\frac{1}{2}$	32	$10\frac{5}{8}$	10	$11\frac{7}{8}$	34	$0\frac{3}{8}$
10	$3\frac{1}{4}$	31	$9\frac{1}{4}$	10	$7\frac{5}{8}$	32	11	11	0	34	$0\frac{3}{4}$
10	$3\frac{3}{8}$	31	$9\frac{5}{8}-\frac{1}{16}$	10	$7\frac{3}{4}$	32	$11\frac{3}{8}-\frac{1}{16}$	11	$0\frac{1}{8}$	34	$1\frac{1}{8}-\frac{1}{16}$
10	$3\frac{1}{2}$	31	$10\frac{1}{16}$	10	$7\frac{7}{8}$	32	$11\frac{3}{4}-\frac{1}{16}$	11	$0\frac{1}{4}$	34	$1\frac{1}{2}-\frac{1}{16}$
10	$3\frac{5}{8}$	31	$10\frac{3}{8}-\frac{1}{16}$	10	8	33	$0\frac{1}{4}$	11	$0\frac{3}{8}$	34	$1\frac{7}{8}-\frac{1}{16}$
10	$3\frac{3}{4}$	31	$10\frac{7}{8}$	10	$8\frac{1}{8}$	33	$0\frac{5}{8}$	11	$0\frac{1}{2}$	34	$2\frac{1}{4}-\frac{1}{16}$
10	$3\frac{7}{8}$	31	$11\frac{1}{4}$	10	$8\frac{1}{4}$	33	1	11	$0\frac{5}{8}$	34	$2\frac{3}{4}$
10	4	31	$11\frac{5}{8}$	10	$8\frac{3}{8}$	33	$1\frac{3}{8}$	11	$0\frac{3}{4}$	34	$3\frac{1}{8}$
10	$4\frac{1}{8}$	32	0	10	$8\frac{1}{2}$	33	$1\frac{3}{4}$	11	$0\frac{7}{8}$	34	$3\frac{1}{2}$
10	$4\frac{1}{4}$	32	$0\frac{3}{8}-\frac{1}{16}$	10	$8\frac{5}{8}$	33	$2\frac{1}{8}-\frac{1}{16}$	11	1	34	$3\frac{7}{8}-\frac{1}{16}$

# 194 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	$1\frac{1}{8}$	34	$4\frac{1}{4}-\frac{1}{16}$	11	$5\frac{1}{2}$	35	$6\frac{1}{16}$	11	$9\frac{7}{8}$	36	$7\frac{3}{4}-\frac{1}{16}$
11	$1\frac{1}{4}$	34	$4\frac{5}{8}-\frac{1}{16}$	11	$5\frac{5}{8}$	35	$6\frac{3}{8}-\frac{1}{16}$	11	10	36	$8\frac{1}{8}-\frac{1}{16}$
11	$1\frac{3}{8}$	34	$5\frac{1}{16}$	11	$5\frac{3}{4}$	35	$6\frac{3}{4}-\frac{1}{16}$	11	$10\frac{1}{8}$	36	$8\frac{1}{2}-\frac{1}{16}$
11	$1\frac{1}{2}$	34	$5\frac{1}{2}$	11	$5\frac{7}{8}$	35	$7\frac{1}{4}$	11	$10\frac{1}{4}$	36	9
11	$1\frac{5}{8}$	34	$5\frac{5}{8}$	11	6	35	$7\frac{5}{8}$	11	$10\frac{3}{8}$	36	$9\frac{3}{8}$
11	$1\frac{3}{4}$	34	$6\frac{1}{4}$	11	$6\frac{1}{8}$	35	8	11	$10\frac{1}{2}$	36	$9\frac{3}{4}$
11	$1\frac{7}{8}$	34	$6\frac{3}{8}-\frac{1}{16}$	11	$6\frac{1}{4}$	35	$8\frac{3}{8}-\frac{1}{16}$	11	$10\frac{5}{8}$	36	$10\frac{1}{8}$
11	2	34	$7\frac{1}{16}$	11	$6\frac{3}{8}$	35	$8\frac{1}{4}-\frac{1}{16}$	11	$10\frac{3}{4}$	36	$10\frac{1}{2}-\frac{1}{16}$
11	$2\frac{1}{8}$	34	$7\frac{3}{8}-\frac{1}{16}$	11	$6\frac{1}{2}$	35	$9\frac{1}{8}-\frac{1}{16}$	11	$10\frac{7}{8}$	36	$10\frac{7}{8}$
11	$2\frac{1}{4}$	34	$7\frac{3}{4}-\frac{1}{16}$	11	$6\frac{5}{8}$	35	$9\frac{1}{2}-\frac{1}{16}$	11	11	36	$11\frac{1}{4}-\frac{1}{16}$
11	$2\frac{3}{8}$	34	$8\frac{1}{4}$	11	$6\frac{3}{4}$	35	10	11	$11\frac{1}{8}$	36	$11\frac{3}{4}$
11	$2\frac{1}{2}$	34	$8\frac{5}{8}$	11	$6\frac{7}{8}$	35	$10\frac{3}{8}$	11	$11\frac{1}{4}$	37	$0\frac{1}{8}$
11	$2\frac{5}{8}$	34	9	11	7	35	$10\frac{3}{4}$	11	$11\frac{3}{8}$	37	$0\frac{1}{2}$
11	$2\frac{3}{4}$	34	$9\frac{3}{8}$	11	$7\frac{1}{8}$	35	$11\frac{1}{8}$	11	$11\frac{1}{2}$	37	$0\frac{7}{8}$
11	$2\frac{7}{8}$	34	$9\frac{3}{4}-\frac{1}{16}$	11	$7\frac{1}{4}$	35	$11\frac{1}{2}-\frac{1}{16}$	11	$11\frac{5}{8}$	37	$1\frac{1}{4}-\frac{1}{16}$
11	3	34	$10\frac{1}{8}-\frac{1}{16}$	11	$7\frac{3}{8}$	35	$11\frac{7}{8}-\frac{1}{16}$	11	$11\frac{3}{4}$	37	$1\frac{5}{8}-\frac{1}{16}$
11	$3\frac{1}{8}$	34	$10\frac{1}{2}-\frac{1}{16}$	11	$7\frac{1}{2}$	36	$0\frac{1}{4}-\frac{1}{16}$	11	$11\frac{7}{8}$	37	$2\frac{1}{16}$
11	$3\frac{1}{4}$	34	11	11	$7\frac{5}{8}$	36	$0\frac{5}{8}-\frac{1}{16}$	12	0	37	$2\frac{3}{8}-\frac{1}{16}$
11	$3\frac{3}{8}$	34	$11\frac{3}{8}$	11	$7\frac{3}{4}$	36	$1\frac{1}{8}$	12	$0\frac{1}{8}$	37	$2\frac{7}{8}$
11	$3\frac{1}{2}$	34	$11\frac{3}{4}$	11	$7\frac{7}{8}$	36	$1\frac{1}{2}$	12	$0\frac{1}{4}$	37	$3\frac{1}{4}$
11	$3\frac{5}{8}$	35	$0\frac{1}{8}$	11	8	36	$1\frac{7}{8}$	12	$0\frac{3}{8}$	37	$3\frac{5}{8}$
11	$3\frac{3}{4}$	35	$0\frac{1}{2}-\frac{1}{16}$	11	$8\frac{1}{8}$	36	$2\frac{1}{4}-\frac{1}{16}$	12	$0\frac{1}{2}$	37	$4\frac{1}{16}$
11	$3\frac{7}{8}$	35	$0\frac{7}{8}-\frac{1}{16}$	11	$8\frac{1}{4}$	36	$2\frac{5}{8}-\frac{1}{16}$	12	$0\frac{5}{8}$	37	$4\frac{3}{8}-\frac{1}{16}$
11	4	35	$1\frac{1}{4}-\frac{1}{16}$	11	$8\frac{3}{8}$	36	$3\frac{1}{16}$	12	$0\frac{3}{4}$	37	$4\frac{3}{4}-\frac{1}{16}$
11	$4\frac{1}{8}$	35	$1\frac{3}{4}$	11	$8\frac{1}{2}$	36	$3\frac{1}{2}$	12	$0\frac{7}{8}$	37	$5\frac{1}{4}$
11	$4\frac{1}{4}$	35	$2\frac{1}{8}$	11	$8\frac{5}{8}$	36	$3\frac{7}{8}$	12	1	37	$5\frac{5}{8}$
11	$4\frac{3}{8}$	35	$2\frac{1}{2}$	11	$8\frac{3}{4}$	36	$4\frac{1}{4}$	12	$1\frac{1}{8}$	37	6
11	$4\frac{1}{2}$	35	$2\frac{5}{8}$	11	$8\frac{7}{8}$	36	$4\frac{5}{8}$	12	$1\frac{1}{4}$	37	$6\frac{3}{8}$
11	$4\frac{5}{8}$	35	$3\frac{1}{4}-\frac{1}{16}$	11	9	36	5	12	$1\frac{3}{8}$	37	$6\frac{3}{4}$
11	$4\frac{3}{4}$	35	$3\frac{5}{8}-\frac{1}{16}$	11	$9\frac{1}{8}$	36	$5\frac{3}{8}-\frac{1}{16}$	12	$1\frac{1}{2}$	37	$7\frac{1}{8}-\frac{1}{16}$
11	$4\frac{7}{8}$	35	$4\frac{1}{16}$	11	$9\frac{1}{4}$	36	$5\frac{3}{4}-\frac{1}{16}$	12	$1\frac{5}{8}$	37	$7\frac{1}{2}-\frac{1}{16}$
11	5	35	$4\frac{1}{2}$	11	$9\frac{3}{8}$	36	$6\frac{1}{4}$	12	$1\frac{3}{4}$	37	$7\frac{7}{8}-\frac{1}{16}$
11	$5\frac{1}{8}$	35	$4\frac{7}{8}$	11	$9\frac{1}{2}$	36	$6\frac{5}{8}$	12	$1\frac{7}{8}$	37	$8\frac{3}{8}$
11	$5\frac{1}{4}$	35	$5\frac{1}{4}$	11	$9\frac{5}{8}$	36	7	12	2	37	$8\frac{3}{4}$
11	$5\frac{3}{8}$	35	$5\frac{5}{8}$	11	$9\frac{3}{4}$	36	$7\frac{3}{8}$	12	$2\frac{1}{8}$	37	$9\frac{1}{8}$

# ANGLE-IRON RINGS (FLANGE INSIDE). 195

## DIAGONAL MEASUREMENT AT THE ROOT, $\frac{1}{16}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$2\frac{1}{4}$	37	$9\frac{1}{2}$	12	$5\frac{5}{8}$	38	$8\frac{1}{8}$	12	9	39	$6\frac{3}{4}$
12	$2\frac{3}{8}$	37	$9\frac{7}{8}$	12	$5\frac{3}{4}$	38	$8\frac{1}{2}-\frac{1}{16}$	12	$9\frac{1}{8}$	39	$7\frac{1}{8}$
12	$2\frac{1}{2}$	37	$10\frac{1}{4}-\frac{1}{16}$	12	$5\frac{7}{8}$	38	$8\frac{7}{8}-\frac{1}{16}$	12	$9\frac{1}{4}$	39	$7\frac{1}{2}$
12	$2\frac{5}{8}$	37	$10\frac{3}{4}$	12	6	38	$9\frac{1}{4}-\frac{1}{16}$	12	$9\frac{3}{8}$	39	$7\frac{7}{8}-\frac{1}{16}$
12	$2\frac{3}{4}$	37	$11\frac{1}{8}$	12	$6\frac{1}{8}$	38	$9\frac{3}{4}$	12	$9\frac{1}{2}$	39	$8\frac{1}{4}-\frac{1}{16}$
12	$2\frac{7}{8}$	37	$11\frac{1}{2}$	12	$6\frac{1}{4}$	38	$10\frac{1}{8}$	12	$9\frac{5}{8}$	39	$8\frac{3}{8}-\frac{1}{16}$
12	3	37	$11\frac{7}{8}-\frac{1}{16}$	12	$6\frac{3}{8}$	38	$10\frac{1}{2}$	12	$9\frac{3}{4}$	39	$9\frac{1}{8}$
12	$3\frac{1}{8}$	38	$0\frac{1}{4}-\frac{1}{16}$	12	$6\frac{1}{2}$	38	$10\frac{7}{8}$	12	$9\frac{7}{8}$	39	$9\frac{1}{2}$
12	$3\frac{1}{4}$	38	$0\frac{3}{4}$	12	$6\frac{5}{8}$	38	$11\frac{1}{4}$	12	10	39	$9\frac{7}{8}$
12	$3\frac{3}{8}$	38	$1\frac{1}{8}$	12	$6\frac{3}{4}$	38	$11\frac{5}{8}-\frac{1}{16}$	12	$10\frac{1}{8}$	39	$10\frac{1}{4}-\frac{1}{16}$
12	$3\frac{1}{2}$	38	$1\frac{1}{2}$	12	$6\frac{7}{8}$	39	$0\frac{1}{16}$	12	$10\frac{1}{4}$	39	$10\frac{5}{8}-\frac{1}{16}$
12	$3\frac{5}{8}$	38	$1\frac{7}{8}$	12	7	39	$0\frac{3}{8}-\frac{1}{16}$	12	$10\frac{3}{8}$	39	$11\frac{1}{16}$
12	$3\frac{3}{4}$	38	$2\frac{1}{4}$	12	$7\frac{1}{8}$	39	$0\frac{7}{8}$	12	$10\frac{1}{2}$	39	$11\frac{3}{8}-\frac{1}{16}$
12	$3\frac{7}{8}$	38	$2\frac{5}{8}$	12	$7\frac{1}{4}$	39	$1\frac{1}{4}$	12	$10\frac{5}{8}$	39	$11\frac{3}{4}-\frac{1}{16}$
12	4	38	3	12	$7\frac{3}{8}$	39	$1\frac{5}{8}$	12	$10\frac{3}{4}$	40	$0\frac{1}{4}$
12	$4\frac{1}{8}$	38	$3\frac{3}{8}$	12	$7\frac{1}{2}$	39	2	12	$10\frac{7}{8}$	40	$0\frac{5}{8}$
12	$4\frac{1}{4}$	38	$3\frac{3}{4}-\frac{1}{16}$	12	$7\frac{5}{8}$	39	$2\frac{3}{8}-\frac{1}{16}$	12	11	40	1
12	$4\frac{3}{8}$	38	$4\frac{1}{8}-\frac{1}{16}$	12	$7\frac{3}{4}$	39	$2\frac{3}{4}-\frac{1}{16}$	12	$11\frac{1}{8}$	40	$1\frac{3}{8}-\frac{1}{16}$
12	$4\frac{1}{2}$	38	$4\frac{5}{8}$	12	$7\frac{7}{8}$	39	$3\frac{1}{4}$	12	$11\frac{1}{4}$	40	$1\frac{3}{4}-\frac{1}{16}$
12	$4\frac{5}{8}$	38	5	12	8	39	$3\frac{5}{8}$	12	$11\frac{3}{8}$	40	$2\frac{1}{8}-\frac{1}{16}$
12	$4\frac{3}{4}$	38	$5\frac{3}{8}$	12	$8\frac{1}{8}$	39	4	12	$11\frac{1}{2}$	40	$2\frac{1}{2}-\frac{1}{16}$
12	$4\frac{7}{8}$	38	$5\frac{3}{4}-\frac{1}{16}$	12	$8\frac{1}{4}$	39	$4\frac{3}{8}-\frac{1}{16}$	12	$11\frac{5}{8}$	40	$2\frac{7}{8}-\frac{1}{16}$
12	5	38	$6\frac{1}{4}$	12	$8\frac{3}{8}$	39	$4\frac{3}{4}-\frac{1}{16}$	12	$11\frac{3}{4}$	40	$3\frac{3}{8}$
12	$5\frac{1}{8}$	38	$6\frac{5}{8}$	12	$8\frac{1}{2}$	39	$5\frac{1}{8}-\frac{1}{16}$	12	$11\frac{7}{8}$	40	$3\frac{3}{4}-\frac{1}{16}$
12	$5\frac{1}{4}$	38	7	12	$8\frac{5}{8}$	39	$5\frac{1}{2}-\frac{1}{16}$	13	0	40	$4\frac{1}{8}-\frac{1}{16}$
12	$5\frac{3}{8}$	38	$7\frac{3}{8}$	12	$8\frac{3}{4}$	39	$5\frac{7}{8}-\frac{1}{16}$				
12	$5\frac{1}{2}$	38	$7\frac{3}{4}$	12	$8\frac{7}{8}$	39	$6\frac{3}{8}$				

## DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	$7\frac{3}{8}$	1	$0\frac{1}{4}$	2	$8\frac{1}{8}-\frac{1}{16}$	1	$0\frac{1}{2}$	2	$8\frac{7}{8}-\frac{1}{16}$
1	$0\frac{1}{8}$	2	$7\frac{3}{4}-\frac{1}{16}$	1	$0\frac{3}{8}$	2	$8\frac{1}{2}-\frac{1}{16}$	1	$0\frac{5}{8}$	2	$9\frac{1}{4}-\frac{1}{16}$

# 196      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0 $\frac{3}{4}$	2	9 $\frac{3}{4}$	1	5 $\frac{1}{8}$	3	11 $\frac{1}{2}$	1	9 $\frac{1}{2}$	5	1 $\frac{1}{4}$
1	0 $\frac{7}{8}$	2	10 $\frac{1}{8}$	1	5 $\frac{1}{4}$	3	11 $\frac{7}{8}$	1	9 $\frac{5}{8}$	5	1 $\frac{5}{8}$
1	1	2	10 $\frac{1}{2}$ - $\frac{1}{16}$	1	5 $\frac{3}{8}$	4	0 $\frac{1}{4}$	1	9 $\frac{3}{4}$	5	2
1	1 $\frac{1}{8}$	2	10 $\frac{7}{8}$ - $\frac{1}{16}$	1	5 $\frac{1}{2}$	4	0 $\frac{5}{8}$ - $\frac{1}{16}$	1	9 $\frac{7}{8}$	5	2 $\frac{3}{8}$ - $\frac{1}{16}$
1	1 $\frac{1}{4}$	2	11 $\frac{1}{4}$ - $\frac{1}{16}$	1	5 $\frac{5}{8}$	4	1 $\frac{1}{16}$	1	10	5	2 $\frac{3}{4}$ - $\frac{1}{16}$
1	1 $\frac{3}{8}$	2	11 $\frac{5}{8}$ - $\frac{1}{16}$	1	5 $\frac{3}{4}$	4	1 $\frac{3}{8}$ - $\frac{1}{16}$	1	10 $\frac{1}{8}$	5	3 $\frac{1}{8}$ - $\frac{1}{16}$
1	1 $\frac{1}{2}$	3	0 $\frac{1}{16}$	1	5 $\frac{7}{8}$	4	1 $\frac{3}{4}$ - $\frac{1}{16}$	1	10 $\frac{1}{4}$	5	3 $\frac{1}{2}$ - $\frac{1}{16}$
1	1 $\frac{5}{8}$	3	0 $\frac{1}{2}$	1	6	4	2 $\frac{1}{4}$	1	10 $\frac{3}{8}$	5	4
1	1 $\frac{3}{4}$	3	0 $\frac{7}{8}$	1	6 $\frac{1}{8}$	4	2 $\frac{5}{8}$	1	10 $\frac{1}{2}$	5	4 $\frac{3}{8}$
1	1 $\frac{7}{8}$	3	1 $\frac{1}{4}$ - $\frac{1}{16}$	1	6 $\frac{1}{4}$	4	3 $\frac{1}{16}$	1	10 $\frac{5}{8}$	5	4 $\frac{3}{4}$
1	2	3	1 $\frac{5}{8}$ - $\frac{1}{16}$	1	6 $\frac{3}{8}$	4	3 $\frac{3}{8}$ - $\frac{1}{16}$	1	10 $\frac{3}{4}$	5	5 $\frac{1}{8}$ - $\frac{1}{16}$
1	2 $\frac{1}{8}$	3	2 $\frac{1}{16}$	1	6 $\frac{1}{2}$	4	3 $\frac{3}{4}$ - $\frac{1}{16}$	1	10 $\frac{7}{8}$	5	5 $\frac{1}{2}$ - $\frac{1}{16}$
1	2 $\frac{1}{4}$	3	2 $\frac{3}{8}$ - $\frac{1}{16}$	1	6 $\frac{5}{8}$	4	4 $\frac{1}{8}$ - $\frac{1}{16}$	1	11	5	5 $\frac{7}{8}$ - $\frac{1}{16}$
1	2 $\frac{3}{8}$	3	2 $\frac{3}{4}$ - $\frac{1}{16}$	1	6 $\frac{3}{4}$	4	4 $\frac{1}{2}$ - $\frac{1}{16}$	1	11 $\frac{1}{8}$	5	6 $\frac{1}{4}$ - $\frac{1}{16}$
1	2 $\frac{1}{2}$	3	3 $\frac{1}{4}$	1	6 $\frac{7}{8}$	4	5	1	11 $\frac{1}{4}$	5	6 $\frac{3}{4}$
1	2 $\frac{5}{8}$	3	3 $\frac{5}{8}$	1	7	4	5 $\frac{3}{8}$	1	11 $\frac{3}{8}$	5	7 $\frac{1}{8}$
1	2 $\frac{3}{4}$	3	4 $\frac{1}{16}$	1	7 $\frac{1}{8}$	4	5 $\frac{3}{4}$ - $\frac{1}{16}$	1	11 $\frac{1}{2}$	5	7 $\frac{1}{2}$
1	2 $\frac{7}{8}$	3	4 $\frac{3}{8}$ - $\frac{1}{16}$	1	7 $\frac{1}{4}$	4	6 $\frac{1}{8}$ - $\frac{1}{16}$	1	11 $\frac{5}{8}$	5	7 $\frac{7}{8}$
1	3	3	4 $\frac{3}{4}$ - $\frac{1}{16}$	1	7 $\frac{3}{8}$	4	6 $\frac{1}{2}$ - $\frac{1}{16}$	1	11 $\frac{3}{4}$	5	8 $\frac{1}{4}$ - $\frac{1}{16}$
1	3 $\frac{1}{8}$	3	5 $\frac{1}{8}$ - $\frac{1}{16}$	1	7 $\frac{1}{2}$	4	6 $\frac{7}{8}$ - $\frac{1}{16}$	1	11 $\frac{7}{8}$	5	8 $\frac{5}{8}$ - $\frac{1}{16}$
1	3 $\frac{1}{4}$	3	5 $\frac{1}{2}$ - $\frac{1}{16}$	1	7 $\frac{5}{8}$	4	7 $\frac{1}{4}$ - $\frac{1}{16}$	2	0	5	9 $\frac{1}{16}$
1	3 $\frac{3}{8}$	3	6	1	7 $\frac{3}{4}$	4	7 $\frac{3}{4}$	2	0 $\frac{1}{8}$	5	9 $\frac{1}{2}$
1	3 $\frac{1}{2}$	3	6 $\frac{3}{8}$	1	7 $\frac{7}{8}$	4	8 $\frac{1}{8}$	2	0 $\frac{1}{4}$	5	9 $\frac{7}{8}$
1	3 $\frac{5}{8}$	3	6 $\frac{3}{4}$ - $\frac{1}{16}$	1	8	4	8 $\frac{1}{2}$	2	0 $\frac{3}{8}$	5	10 $\frac{1}{4}$
1	3 $\frac{3}{4}$	3	7 $\frac{1}{8}$ - $\frac{1}{16}$	1	8 $\frac{1}{8}$	4	8 $\frac{7}{8}$ - $\frac{1}{16}$	2	0 $\frac{1}{2}$	5	10 $\frac{5}{8}$
1	3 $\frac{7}{8}$	3	7 $\frac{1}{2}$ - $\frac{1}{16}$	1	8 $\frac{1}{4}$	4	9 $\frac{1}{4}$ - $\frac{1}{16}$	2	0 $\frac{5}{8}$	5	11 $\frac{1}{16}$
1	4	3	7 $\frac{7}{8}$ - $\frac{1}{16}$	1	8 $\frac{3}{8}$	4	9 $\frac{5}{8}$ - $\frac{1}{16}$	2	0 $\frac{3}{4}$	5	11 $\frac{3}{8}$ - $\frac{1}{16}$
1	4 $\frac{1}{8}$	3	8 $\frac{1}{4}$ - $\frac{1}{16}$	1	8 $\frac{1}{2}$	4	10 $\frac{1}{16}$	2	0 $\frac{7}{8}$	5	11 $\frac{3}{4}$ - $\frac{1}{16}$
1	4 $\frac{1}{4}$	3	8 $\frac{3}{4}$	1	8 $\frac{5}{8}$	4	10 $\frac{1}{2}$	2	1	6	0 $\frac{1}{4}$
1	4 $\frac{3}{8}$	3	9 $\frac{1}{8}$	1	8 $\frac{3}{4}$	4	10 $\frac{7}{8}$	2	1 $\frac{1}{8}$	6	0 $\frac{5}{8}$
1	4 $\frac{1}{2}$	3	9 $\frac{1}{2}$ - $\frac{1}{16}$	1	8 $\frac{7}{8}$	4	11 $\frac{1}{4}$	2	1 $\frac{1}{4}$	6	1
1	4 $\frac{5}{8}$	3	9 $\frac{7}{8}$ - $\frac{1}{16}$	1	9	4	11 $\frac{5}{8}$ - $\frac{1}{16}$	2	1 $\frac{3}{8}$	6	1 $\frac{3}{8}$
1	4 $\frac{3}{4}$	3	10 $\frac{1}{4}$ - $\frac{1}{16}$	1	9 $\frac{1}{8}$	5	0 $\frac{1}{16}$	2	1 $\frac{1}{2}$	6	1 $\frac{3}{4}$ - $\frac{1}{16}$
1	4 $\frac{7}{8}$	3	10 $\frac{5}{8}$ - $\frac{1}{16}$	1	9 $\frac{1}{4}$	5	0 $\frac{3}{8}$ - $\frac{1}{16}$	2	1 $\frac{5}{8}$	6	2 $\frac{3}{8}$ - $\frac{1}{16}$
1	5	3	11 $\frac{1}{16}$	1	9 $\frac{3}{8}$	5	0 $\frac{3}{4}$ - $\frac{1}{16}$	2	1 $\frac{3}{4}$	6	2 $\frac{1}{2}$ - $\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE INSIDE). 197

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	1 <sup>7</sup> / <sub>8</sub>	6	3	2	6 <sup>1</sup> / <sub>4</sub>	7	4 <sup>3</sup> / <sub>4</sub>	2	10 <sup>5</sup> / <sub>8</sub>	8	6 <sup>1</sup> / <sub>2</sub>
2	2	6	3 <sup>3</sup> / <sub>8</sub>	2	6 <sup>3</sup> / <sub>8</sub>	7	5 <sup>5</sup> / <sub>8</sub>	2	10 <sup>3</sup> / <sub>4</sub>	8	6 <sup>7</sup> / <sub>8</sub>
2	2 <sup>1</sup> / <sub>8</sub>	6	3 <sup>3</sup> / <sub>4</sub>	2	6 <sup>1</sup> / <sub>2</sub>	7	5 <sup>1</sup> / <sub>2</sub>	2	10 <sup>7</sup> / <sub>8</sub>	8	7 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
2	2 <sup>1</sup> / <sub>4</sub>	6	4 <sup>1</sup> / <sub>8</sub>	2	6 <sup>5</sup> / <sub>8</sub>	7	5 <sup>7</sup> / <sub>8</sub>	2	11	8	7 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
2	2 <sup>3</sup> / <sub>8</sub>	6	4 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	2	6 <sup>3</sup> / <sub>4</sub>	7	6 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	2	11 <sup>1</sup> / <sub>8</sub>	8	8 <sup>1</sup> / <sub>16</sub>
2	2 <sup>1</sup> / <sub>2</sub>	6	4 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	6 <sup>7</sup> / <sub>8</sub>	7	6 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	11 <sup>1</sup> / <sub>4</sub>	8	8 <sup>1</sup> / <sub>2</sub>
2	2 <sup>5</sup> / <sub>8</sub>	6	5 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	2	7	7	7 <sup>1</sup> / <sub>16</sub>	2	11 <sup>3</sup> / <sub>8</sub>	8	8 <sup>7</sup> / <sub>8</sub>
2	2 <sup>3</sup> / <sub>4</sub>	6	5 <sup>3</sup> / <sub>4</sub>	2	7 <sup>1</sup> / <sub>8</sub>	7	7 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	11 <sup>1</sup> / <sub>2</sub>	8	9 <sup>1</sup> / <sub>4</sub>
2	2 <sup>7</sup> / <sub>8</sub>	6	6 <sup>1</sup> / <sub>8</sub>	2	7 <sup>1</sup> / <sub>4</sub>	7	7 <sup>7</sup> / <sub>8</sub>	2	11 <sup>5</sup> / <sub>8</sub>	8	9 <sup>5</sup> / <sub>8</sub>
2	3	6	6 <sup>1</sup> / <sub>2</sub>	2	7 <sup>3</sup> / <sub>8</sub>	7	8 <sup>1</sup> / <sub>4</sub>	2	11 <sup>3</sup> / <sub>4</sub>	8	10
2	3 <sup>1</sup> / <sub>8</sub>	6	6 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	7 <sup>1</sup> / <sub>2</sub>	7	8 <sup>5</sup> / <sub>8</sub>	2	11 <sup>7</sup> / <sub>8</sub>	8	10 <sup>3</sup> / <sub>8</sub>
2	3 <sup>1</sup> / <sub>4</sub>	6	7 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	2	7 <sup>5</sup> / <sub>8</sub>	7	9 <sup>1</sup> / <sub>16</sub>	3	0	8	10 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
2	3 <sup>3</sup> / <sub>8</sub>	6	7 <sup>3</sup> / <sub>4</sub>	2	7 <sup>3</sup> / <sub>4</sub>	7	9 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	3	0 <sup>1</sup> / <sub>8</sub>	8	11 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
2	3 <sup>1</sup> / <sub>2</sub>	6	8 <sup>1</sup> / <sub>8</sub>	2	7 <sup>7</sup> / <sub>8</sub>	7	9 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	3	0 <sup>1</sup> / <sub>4</sub>	8	11 <sup>5</sup> / <sub>8</sub>
2	3 <sup>5</sup> / <sub>8</sub>	6	8 <sup>1</sup> / <sub>2</sub>	2	8	7	10 <sup>1</sup> / <sub>4</sub>	3	0 <sup>3</sup> / <sub>8</sub>	9	0
2	3 <sup>3</sup> / <sub>4</sub>	6	8 <sup>7</sup> / <sub>8</sub>	2	8 <sup>1</sup> / <sub>8</sub>	7	10 <sup>5</sup> / <sub>8</sub>	3	0 <sup>1</sup> / <sub>2</sub>	9	0 <sup>3</sup> / <sub>8</sub>
2	3 <sup>7</sup> / <sub>8</sub>	6	9 <sup>1</sup> / <sub>4</sub>	2	8 <sup>1</sup> / <sub>4</sub>	7	11	3	0 <sup>5</sup> / <sub>8</sub>	9	0 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
2	4	6	9 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	8 <sup>3</sup> / <sub>8</sub>	7	11 <sup>3</sup> / <sub>8</sub>	3	0 <sup>3</sup> / <sub>4</sub>	9	1 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
2	4 <sup>1</sup> / <sub>8</sub>	6	10 <sup>1</sup> / <sub>16</sub>	2	8 <sup>1</sup> / <sub>2</sub>	7	11 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	3	0 <sup>7</sup> / <sub>8</sub>	9	1 <sup>5</sup> / <sub>8</sub>
2	4 <sup>1</sup> / <sub>4</sub>	6	10 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	8 <sup>5</sup> / <sub>8</sub>	8	0 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	3	1	9	2
2	4 <sup>3</sup> / <sub>8</sub>	6	10 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	2	8 <sup>3</sup> / <sub>4</sub>	8	0 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	3	1 <sup>1</sup> / <sub>8</sub>	9	2 <sup>3</sup> / <sub>8</sub>
2	4 <sup>1</sup> / <sub>2</sub>	6	11 <sup>1</sup> / <sub>4</sub>	2	8 <sup>7</sup> / <sub>8</sub>	8	1	3	1 <sup>1</sup> / <sub>4</sub>	9	2 <sup>3</sup> / <sub>4</sub>
2	4 <sup>5</sup> / <sub>8</sub>	6	11 <sup>5</sup> / <sub>8</sub>	2	9	8	1 <sup>3</sup> / <sub>8</sub>	3	1 <sup>3</sup> / <sub>8</sub>	9	3 <sup>1</sup> / <sub>8</sub>
2	4 <sup>3</sup> / <sub>4</sub>	7	0	2	9 <sup>1</sup> / <sub>8</sub>	8	1 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	3	1 <sup>1</sup> / <sub>2</sub>	9	3 <sup>1</sup> / <sub>2</sub>
2	4 <sup>7</sup> / <sub>8</sub>	7	0 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	9 <sup>1</sup> / <sub>4</sub>	8	2 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	3	1 <sup>5</sup> / <sub>8</sub>	9	3 <sup>7</sup> / <sub>8</sub>
2	5	7	0 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	2	9 <sup>3</sup> / <sub>8</sub>	8	2 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	3	1 <sup>3</sup> / <sub>4</sub>	9	4 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
2	5 <sup>1</sup> / <sub>8</sub>	7	1 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	9 <sup>1</sup> / <sub>2</sub>	8	3	3	1 <sup>7</sup> / <sub>8</sub>	9	4 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
2	5 <sup>1</sup> / <sub>4</sub>	7	1 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	2	9 <sup>5</sup> / <sub>8</sub>	8	3 <sup>3</sup> / <sub>8</sub>	3	2	9	5 <sup>1</sup> / <sub>16</sub>
2	5 <sup>3</sup> / <sub>8</sub>	7	2	2	9 <sup>3</sup> / <sub>4</sub>	8	3 <sup>3</sup> / <sub>4</sub>	3	2 <sup>1</sup> / <sub>8</sub>	9	5 <sup>1</sup> / <sub>2</sub>
2	5 <sup>1</sup> / <sub>2</sub>	7	2 <sup>3</sup> / <sub>8</sub>	2	9 <sup>7</sup> / <sub>8</sub>	8	4 <sup>1</sup> / <sub>8</sub>	3	2 <sup>1</sup> / <sub>4</sub>	9	5 <sup>7</sup> / <sub>8</sub>
2	5 <sup>5</sup> / <sub>8</sub>	7	2 <sup>3</sup> / <sub>4</sub>	2	10	8	4 <sup>1</sup> / <sub>2</sub>	3	2 <sup>3</sup> / <sub>8</sub>	9	6 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>
2	5 <sup>3</sup> / <sub>4</sub>	7	3 <sup>1</sup> / <sub>8</sub>	2	10 <sup>1</sup> / <sub>8</sub>	8	4 <sup>7</sup> / <sub>8</sub>	3	2 <sup>1</sup> / <sub>2</sub>	9	6 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
2	5 <sup>7</sup> / <sub>8</sub>	7	3 <sup>1</sup> / <sub>2</sub> - <sup>1</sup> / <sub>16</sub>	2	10 <sup>1</sup> / <sub>4</sub>	8	5 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	3	2 <sup>5</sup> / <sub>8</sub>	9	7 <sup>1</sup> / <sub>16</sub>
2	6	7	3 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	10 <sup>3</sup> / <sub>8</sub>	8	5 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	3	2 <sup>3</sup> / <sub>4</sub>	9	7 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
2	6 <sup>1</sup> / <sub>8</sub>	7	4 <sup>1</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>	2	10 <sup>1</sup> / <sub>2</sub>	8	6 <sup>1</sup> / <sub>16</sub>	3	2 <sup>7</sup> / <sub>8</sub>	9	7 <sup>3</sup> / <sub>4</sub> - <sup>1</sup> / <sub>16</sub>

198 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	3	9	$8\frac{1}{8}-\frac{1}{16}$	3	$7\frac{3}{8}$	10	10	3	$11\frac{3}{4}$	11	$11\frac{5}{8}-\frac{1}{16}$
3	$3\frac{1}{8}$	9	$8\frac{1}{2}-\frac{1}{16}$	3	$7\frac{1}{2}$	10	$10\frac{3}{8}$	3	$11\frac{7}{8}$	12	$0\frac{1}{16}$
3	$3\frac{1}{4}$	9	9	3	$7\frac{5}{8}$	10	$10\frac{3}{4}-\frac{1}{16}$	4	0	12	$0\frac{1}{2}$
3	$3\frac{3}{8}$	9	$9\frac{3}{8}$	3	$7\frac{3}{4}$	10	$11\frac{1}{8}-\frac{1}{16}$	4	$0\frac{1}{8}$	12	$0\frac{7}{8}$
3	$3\frac{1}{2}$	9	$9\frac{3}{4}-\frac{1}{16}$	3	$7\frac{7}{8}$	10	$11\frac{1}{2}-\frac{1}{16}$	4	$0\frac{1}{4}$	12	$1\frac{1}{4}-\frac{1}{16}$
3	$3\frac{5}{8}$	9	$10\frac{1}{8}-\frac{1}{16}$	3	8	10	$11\frac{7}{8}-\frac{1}{16}$	4	$0\frac{3}{8}$	12	$1\frac{5}{8}-\frac{1}{16}$
3	$3\frac{3}{4}$	9	$10\frac{1}{2}-\frac{1}{16}$	3	$8\frac{1}{8}$	11	$0\frac{1}{4}-\frac{1}{16}$	4	$0\frac{1}{2}$	12	$2\frac{1}{16}$
3	$3\frac{7}{8}$	9	11	3	$8\frac{1}{4}$	11	$0\frac{5}{8}-\frac{1}{16}$	4	$0\frac{5}{8}$	12	$2\frac{1}{2}$
3	4	9	$11\frac{3}{8}$	3	$8\frac{3}{8}$	11	$1\frac{1}{16}$	4	$0\frac{3}{4}$	12	$2\frac{7}{8}$
3	$4\frac{1}{8}$	9	$11\frac{3}{4}-\frac{1}{16}$	3	$8\frac{1}{2}$	11	$1\frac{1}{2}$	4	$0\frac{7}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$
3	$4\frac{1}{4}$	10	$0\frac{1}{8}-\frac{1}{16}$	3	$8\frac{3}{8}$	11	$1\frac{7}{8}$	4	1	12	$3\frac{3}{8}-\frac{1}{16}$
3	$4\frac{3}{8}$	10	$0\frac{1}{2}-\frac{1}{16}$	3	$8\frac{3}{4}$	11	$2\frac{1}{4}-\frac{1}{16}$	4	$1\frac{1}{8}$	12	$4\frac{1}{16}$
3	$4\frac{1}{2}$	10	1	3	$8\frac{7}{8}$	11	$2\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{4}$	12	$4\frac{3}{8}-\frac{1}{16}$
3	$4\frac{5}{8}$	10	$1\frac{3}{8}$	3	9	11	$3\frac{1}{16}$	4	$1\frac{3}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$
3	$4\frac{3}{4}$	10	$1\frac{3}{4}$	3	$9\frac{1}{8}$	11	$3\frac{1}{2}$	4	$1\frac{1}{2}$	12	$5\frac{1}{8}-\frac{1}{16}$
3	$4\frac{7}{8}$	10	$2\frac{1}{8}$	3	$9\frac{1}{4}$	11	$3\frac{7}{8}$	4	$1\frac{5}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$
3	5	10	$2\frac{1}{2}$	3	$9\frac{3}{8}$	11	$4\frac{1}{4}-\frac{1}{16}$	4	$1\frac{3}{4}$	12	6
3	$5\frac{1}{8}$	10	$2\frac{7}{8}$	3	$9\frac{1}{2}$	11	$4\frac{5}{8}-\frac{1}{16}$	4	$1\frac{7}{8}$	12	$6\frac{3}{8}$
3	$5\frac{1}{4}$	10	$3\frac{1}{4}-\frac{1}{16}$	3	$9\frac{5}{8}$	11	$5\frac{1}{16}$	4	2	12	$6\frac{3}{4}-\frac{1}{16}$
3	$5\frac{3}{8}$	10	$3\frac{5}{8}-\frac{1}{16}$	3	$9\frac{3}{4}$	11	$5\frac{3}{8}-\frac{1}{16}$	4	$2\frac{1}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$
3	$5\frac{1}{2}$	10	$4\frac{1}{8}$	3	$9\frac{7}{8}$	11	$5\frac{3}{4}-\frac{1}{16}$	4	$2\frac{1}{4}$	12	$7\frac{1}{2}-\frac{1}{16}$
3	$5\frac{5}{8}$	10	$4\frac{1}{2}$	3	10	11	$6\frac{1}{8}-\frac{1}{16}$	4	$2\frac{3}{8}$	12	8
3	$5\frac{3}{4}$	10	$4\frac{7}{8}$	3	$10\frac{1}{8}$	11	$6\frac{1}{2}-\frac{1}{16}$	4	$2\frac{1}{2}$	12	$8\frac{3}{8}$
3	$5\frac{7}{8}$	10	$5\frac{1}{4}-\frac{1}{16}$	3	$10\frac{1}{4}$	11	7	4	$2\frac{5}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$
3	6	10	$5\frac{5}{8}-\frac{1}{16}$	3	$10\frac{3}{8}$	11	$7\frac{3}{8}$	4	$2\frac{3}{4}$	12	$9\frac{1}{8}-\frac{1}{16}$
3	$6\frac{1}{8}$	10	$6\frac{1}{16}$	3	$10\frac{1}{2}$	11	$7\frac{3}{4}-\frac{1}{16}$	4	$2\frac{7}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$
3	$6\frac{1}{4}$	10	$6\frac{3}{8}-\frac{1}{16}$	3	$10\frac{5}{8}$	11	$8\frac{1}{8}-\frac{1}{16}$	4	3	12	$9\frac{7}{8}-\frac{1}{16}$
3	$6\frac{3}{8}$	10	$6\frac{3}{4}-\frac{1}{16}$	3	$10\frac{3}{4}$	11	$8\frac{1}{2}-\frac{1}{16}$	4	$3\frac{1}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$
3	$6\frac{1}{2}$	10	$7\frac{1}{8}-\frac{1}{16}$	3	$10\frac{7}{8}$	11	9	4	$3\frac{1}{4}$	12	$10\frac{5}{8}-\frac{1}{16}$
3	$6\frac{5}{8}$	10	$7\frac{5}{8}$	3	11	11	$9\frac{3}{8}$	4	$3\frac{3}{8}$	12	$11\frac{1}{16}$
3	$6\frac{3}{4}$	10	8	3	$11\frac{1}{8}$	11	$9\frac{3}{4}-\frac{1}{16}$	4	$3\frac{1}{2}$	12	$11\frac{1}{2}$
3	$6\frac{7}{8}$	10	$8\frac{3}{8}$	3	$11\frac{1}{4}$	11	$10\frac{1}{8}-\frac{1}{16}$	4	$3\frac{5}{8}$	12	$11\frac{7}{8}$
3	7	10	$8\frac{3}{4}-\frac{1}{16}$	3	$11\frac{3}{8}$	11	$10\frac{1}{2}-\frac{1}{16}$	4	$3\frac{3}{4}$	13	$0\frac{1}{4}-\frac{1}{16}$
3	$7\frac{1}{8}$	10	$9\frac{1}{8}-\frac{1}{16}$	3	$11\frac{1}{2}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	$3\frac{7}{8}$	13	$0\frac{5}{8}-\frac{1}{16}$
3	$7\frac{1}{4}$	10	$9\frac{5}{8}$	3	$11\frac{5}{8}$	11	$11\frac{1}{4}-\frac{1}{16}$	4	4	13	$1\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 199

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	4 $\frac{1}{8}$	13	1 $\frac{1}{2}$	4	8 $\frac{1}{2}$	14	3 $\frac{1}{8}$ - $\frac{1}{16}$	5	1 $\frac{3}{4}$	15	7 $\frac{5}{8}$ - $\frac{1}{16}$
4	4 $\frac{1}{4}$	13	1 $\frac{7}{8}$	4	8 $\frac{5}{8}$	14	3 $\frac{1}{2}$ - $\frac{1}{16}$	5	2	15	8 $\frac{1}{2}$
4	4 $\frac{3}{8}$	13	2 $\frac{1}{4}$ - $\frac{1}{16}$	4	8 $\frac{3}{4}$	14	4	5	2 $\frac{1}{4}$	15	9 $\frac{1}{4}$ - $\frac{1}{16}$
4	4 $\frac{1}{2}$	13	2 $\frac{5}{8}$ - $\frac{1}{16}$	4	8 $\frac{7}{8}$	14	4 $\frac{3}{8}$	5	2 $\frac{1}{2}$	15	10 $\frac{1}{16}$
4	4 $\frac{5}{8}$	13	3 $\frac{1}{16}$	4	9	14	4 $\frac{3}{4}$ - $\frac{1}{16}$	5	2 $\frac{3}{4}$	15	10 $\frac{7}{8}$
4	4 $\frac{3}{4}$	13	3 $\frac{3}{8}$ - $\frac{1}{16}$	4	9 $\frac{1}{8}$	14	5 $\frac{1}{8}$ - $\frac{1}{16}$	5	3	15	11 $\frac{5}{8}$
4	4 $\frac{7}{8}$	13	3 $\frac{3}{4}$ - $\frac{1}{16}$	4	9 $\frac{1}{4}$	14	5 $\frac{1}{2}$ - $\frac{1}{16}$	5	3 $\frac{1}{4}$	16	0 $\frac{3}{8}$
4	5	13	4 $\frac{1}{8}$ - $\frac{1}{16}$	4	9 $\frac{3}{8}$	14	6	5	3 $\frac{1}{2}$	16	1 $\frac{1}{8}$ - $\frac{1}{16}$
4	5 $\frac{1}{8}$	13	4 $\frac{1}{2}$ - $\frac{1}{16}$	4	9 $\frac{1}{2}$	14	6 $\frac{3}{8}$	5	3 $\frac{3}{4}$	16	2
4	5 $\frac{1}{4}$	13	5	4	9 $\frac{5}{8}$	14	6 $\frac{3}{4}$	5	4	16	2 $\frac{3}{4}$ - $\frac{1}{16}$
4	5 $\frac{3}{8}$	13	5 $\frac{3}{8}$	4	9 $\frac{3}{4}$	14	7 $\frac{1}{8}$	5	4 $\frac{1}{4}$	16	3 $\frac{1}{2}$ - $\frac{1}{16}$
4	5 $\frac{1}{2}$	13	5 $\frac{3}{4}$ - $\frac{1}{16}$	4	9 $\frac{7}{8}$	14	7 $\frac{1}{2}$	5	4 $\frac{1}{2}$	16	4 $\frac{3}{8}$
4	5 $\frac{5}{8}$	13	6 $\frac{1}{8}$ - $\frac{1}{16}$	4	10	14	7 $\frac{7}{8}$	5	4 $\frac{3}{4}$	16	5 $\frac{1}{8}$
4	5 $\frac{3}{4}$	13	6 $\frac{1}{2}$ - $\frac{1}{16}$	4	10 $\frac{1}{8}$	14	8 $\frac{1}{4}$ - $\frac{1}{16}$	5	5	16	5 $\frac{7}{8}$
4	5 $\frac{7}{8}$	13	7	4	10 $\frac{1}{4}$	14	8 $\frac{5}{8}$ - $\frac{1}{16}$	5	5 $\frac{1}{4}$	16	6 $\frac{5}{8}$ - $\frac{1}{16}$
4	6	13	7 $\frac{3}{8}$	4	10 $\frac{3}{8}$	14	9 $\frac{1}{8}$	5	5 $\frac{1}{2}$	16	7 $\frac{1}{2}$
4	6 $\frac{1}{8}$	13	7 $\frac{3}{4}$	4	10 $\frac{1}{2}$	14	9 $\frac{1}{2}$	5	5 $\frac{3}{4}$	16	8 $\frac{1}{4}$ - $\frac{1}{16}$
4	6 $\frac{1}{4}$	13	8 $\frac{1}{8}$	4	10 $\frac{5}{8}$	14	9 $\frac{7}{8}$	5	6	16	9 $\frac{1}{8}$
4	6 $\frac{3}{8}$	13	8 $\frac{1}{2}$	4	10 $\frac{3}{4}$	14	10 $\frac{1}{4}$	5	6 $\frac{1}{4}$	16	9 $\frac{7}{8}$
4	6 $\frac{1}{2}$	13	8 $\frac{7}{8}$	4	10 $\frac{7}{8}$	14	10 $\frac{5}{8}$ - $\frac{1}{16}$	5	6 $\frac{1}{2}$	16	10 $\frac{5}{8}$
4	6 $\frac{5}{8}$	13	9 $\frac{1}{4}$ - $\frac{1}{16}$	4	11	14	11 $\frac{1}{8}$	5	6 $\frac{3}{4}$	16	11 $\frac{3}{8}$
4	6 $\frac{3}{4}$	13	9 $\frac{5}{8}$ - $\frac{1}{16}$	4	11 $\frac{1}{8}$	14	11 $\frac{1}{2}$	5	7	17	0 $\frac{1}{8}$ - $\frac{1}{16}$
4	6 $\frac{7}{8}$	13	10 $\frac{1}{16}$	4	11 $\frac{1}{4}$	14	11 $\frac{7}{8}$	5	7 $\frac{1}{4}$	17	1
4	7	13	10 $\frac{1}{2}$	4	11 $\frac{3}{8}$	15	0 $\frac{1}{4}$	5	7 $\frac{1}{2}$	17	1 $\frac{3}{4}$ - $\frac{1}{16}$
4	7 $\frac{1}{8}$	13	10 $\frac{7}{8}$	4	11 $\frac{1}{2}$	15	0 $\frac{5}{8}$	5	7 $\frac{3}{4}$	17	2 $\frac{1}{2}$ - $\frac{1}{16}$
4	7 $\frac{1}{4}$	13	11 $\frac{1}{4}$ - $\frac{1}{16}$	4	11 $\frac{5}{8}$	15	1	5	8	17	3 $\frac{3}{8}$
4	7 $\frac{3}{8}$	13	11 $\frac{5}{8}$ - $\frac{1}{16}$	4	11 $\frac{3}{4}$	15	1 $\frac{3}{8}$	5	8 $\frac{1}{4}$	17	4 $\frac{1}{8}$
4	7 $\frac{1}{2}$	14	0 $\frac{1}{16}$	4	11 $\frac{7}{8}$	15	1 $\frac{3}{4}$ - $\frac{1}{16}$	5	8 $\frac{1}{2}$	17	4 $\frac{7}{8}$
4	7 $\frac{5}{8}$	14	0 $\frac{1}{2}$	5	0	15	2 $\frac{1}{8}$ - $\frac{1}{16}$	5	8 $\frac{3}{4}$	17	5 $\frac{5}{8}$ - $\frac{1}{16}$
4	7 $\frac{3}{4}$	14	0 $\frac{7}{8}$	5	0 $\frac{1}{4}$	15	3	5	9	17	6 $\frac{1}{2}$
4	7 $\frac{7}{8}$	14	1 $\frac{1}{4}$	5	0 $\frac{1}{2}$	15	3 $\frac{3}{4}$ - $\frac{1}{16}$	5	9 $\frac{1}{4}$	17	7 $\frac{1}{4}$
4	8	14	1 $\frac{5}{8}$	5	0 $\frac{3}{4}$	15	4 $\frac{1}{2}$ - $\frac{1}{16}$	5	9 $\frac{1}{2}$	17	8 $\frac{1}{8}$
4	8 $\frac{1}{8}$	14	2	5	1	15	5 $\frac{3}{8}$	5	9 $\frac{3}{4}$	17	8 $\frac{7}{8}$
4	8 $\frac{1}{4}$	14	2 $\frac{3}{8}$	5	1 $\frac{1}{4}$	15	6 $\frac{1}{8}$	5	10	17	9 $\frac{3}{8}$
4	8 $\frac{3}{8}$	14	2 $\frac{3}{4}$ - $\frac{1}{16}$	5	1 $\frac{1}{2}$	15	6 $\frac{7}{8}$	5	10 $\frac{1}{4}$	17	10 $\frac{3}{8}$

200 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	10½	17	11½- <sup>1</sup> / <sub>16</sub>	6	7¼	20	25 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	7	4	22	6½- <sup>1</sup> / <sub>16</sub>
5	10¾	18	0	6	7½	20	3½	7	4¼	22	7
5	11	18	0¾- <sup>1</sup> / <sub>16</sub>	6	7¾	20	4¼- <sup>1</sup> / <sub>16</sub>	7	4½	22	7¾
5	11¼	18	1½- <sup>1</sup> / <sub>16</sub>	6	8	20	5 <sup>1</sup> / <sub>16</sub>	7	4¾	22	8½
5	11½	18	2¼- <sup>1</sup> / <sub>16</sub>	6	8¼	20	5¾- <sup>1</sup> / <sub>16</sub>	7	5	22	9¼- <sup>1</sup> / <sub>16</sub>
5	11¾	18	3 <sup>1</sup> / <sub>8</sub>	6	8½	20	6½- <sup>1</sup> / <sub>16</sub>	7	5¼	22	10 <sup>1</sup> / <sub>8</sub>
6	0	18	3 <sup>7</sup> / <sub>8</sub>	6	8¾	20	7 <sup>3</sup> / <sub>8</sub>	7	5½	22	10 <sup>7</sup> / <sub>8</sub>
6	0¼	18	4 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	6	9	20	8 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	7	5¾	22	11 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
6	0½	18	5½	6	9¼	20	9	7	6	23	0½
6	0¾	18	6¼- <sup>1</sup> / <sub>16</sub>	6	9½	20	9¾	7	6¼	23	1¼
6	1	18	7 <sup>1</sup> / <sub>16</sub>	6	9¾	20	10½	7	6½	23	2
6	1¼	18	7¾- <sup>1</sup> / <sub>16</sub>	6	10	20	11¼- <sup>1</sup> / <sub>16</sub>	7	6¾	23	2¾- <sup>1</sup> / <sub>16</sub>
6	1½	18	8½- <sup>1</sup> / <sub>16</sub>	6	10¼	21	0 <sup>1</sup> / <sub>8</sub>	7	7	23	3½- <sup>1</sup> / <sub>16</sub>
6	1¾	18	9 <sup>3</sup> / <sub>8</sub>	6	10½	21	0 <sup>7</sup> / <sub>8</sub>	7	7¼	23	4 <sup>3</sup> / <sub>8</sub>
6	2	18	10 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	6	10¾	21	1 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	7	7½	23	5 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
6	2¼	18	11	6	11	21	2½	7	7¾	23	6
6	2½	18	11¾- <sup>1</sup> / <sub>16</sub>	6	11¼	21	3¼	7	8	23	6¾
6	2¾	19	0½- <sup>1</sup> / <sub>16</sub>	6	11½	21	4	7	8¼	23	7½
6	3	19	1¼- <sup>1</sup> / <sub>16</sub>	6	11¾	21	4¾- <sup>1</sup> / <sub>16</sub>	7	8½	23	8¼- <sup>1</sup> / <sub>16</sub>
6	3¼	19	2 <sup>1</sup> / <sub>8</sub>	7	0	21	5½- <sup>1</sup> / <sub>16</sub>	7	8¾	23	9 <sup>1</sup> / <sub>16</sub>
6	3½	19	2 <sup>7</sup> / <sub>8</sub>	7	0¼	21	6 <sup>3</sup> / <sub>8</sub>	7	9	23	9 <sup>7</sup> / <sub>8</sub>
6	3¾	19	3 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	7	0½	21	7 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	7	9¼	23	10 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
6	4	19	4½	7	0¾	21	8	7	9½	23	11 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
6	4¼	19	5¼- <sup>1</sup> / <sub>16</sub>	7	1	21	8¾	7	9¾	24	0 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
6	4½	19	6 <sup>1</sup> / <sub>16</sub>	7	1¼	21	9½	7	10	24	1
6	4¾	19	6¾- <sup>1</sup> / <sub>16</sub>	7	1½	21	10¼- <sup>1</sup> / <sub>16</sub>	7	10¼	24	1¾- <sup>1</sup> / <sub>16</sub>
6	5	19	7½- <sup>1</sup> / <sub>16</sub>	7	1¾	21	11 <sup>1</sup> / <sub>8</sub>	7	10½	24	2½- <sup>1</sup> / <sub>16</sub>
6	5¼	19	8 <sup>3</sup> / <sub>8</sub>	7	2	21	11 <sup>7</sup> / <sub>8</sub>	7	10¾	24	3 <sup>3</sup> / <sub>8</sub>
6	5½	19	9 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	7	2¼	22	0 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	7	11	24	4 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
6	5¾	19	10	7	2½	22	1½	7	11¼	24	5
6	6	19	10¾- <sup>1</sup> / <sub>16</sub>	7	2¾	22	2¼	7	11½	24	5¾
6	6¼	19	11½- <sup>1</sup> / <sub>16</sub>	7	3	22	3	7	11¾	24	6½
6	6½	20	0¼- <sup>1</sup> / <sub>16</sub>	7	3¼	22	3¾- <sup>1</sup> / <sub>16</sub>	8	0	24	7¼- <sup>1</sup> / <sub>16</sub>
6	6¾	20	1 <sup>1</sup> / <sub>8</sub>	7	3½	22	4½- <sup>1</sup> / <sub>16</sub>	8	0¼	24	8 <sup>1</sup> / <sub>8</sub>
6	7	20	1 <sup>7</sup> / <sub>8</sub>	7	3¾	22	5 <sup>3</sup> / <sub>8</sub>	8	0½	24	8 <sup>7</sup> / <sub>8</sub>

ANGLE-IRON RINGS (FLANGE INSIDE). 201

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	0 $\frac{3}{4}$	24	9 $\frac{5}{8}$ - $\frac{1}{16}$	8	9 $\frac{1}{2}$	27	1 $\frac{1}{16}$	9	6 $\frac{1}{4}$	29	4 $\frac{5}{8}$
8	1	24	10 $\frac{3}{8}$ - $\frac{1}{16}$	8	9 $\frac{3}{4}$	27	1 $\frac{7}{8}$ - $\frac{1}{16}$	6	6 $\frac{1}{2}$	29	5 $\frac{3}{8}$
8	1 $\frac{1}{4}$	24	11 $\frac{1}{8}$ - $\frac{1}{16}$	8	10	27	2 $\frac{5}{8}$ - $\frac{1}{16}$	9	6 $\frac{3}{4}$	29	6 $\frac{1}{8}$ - $\frac{1}{16}$
8	1 $\frac{1}{2}$	25	0	8	10 $\frac{1}{4}$	27	3 $\frac{1}{2}$	9	7	29	7
8	1 $\frac{3}{4}$	25	0 $\frac{3}{4}$ - $\frac{1}{16}$	8	10 $\frac{1}{2}$	27	4 $\frac{1}{4}$	9	7 $\frac{1}{4}$	29	7 $\frac{3}{4}$
8	2	25	1 $\frac{1}{2}$ - $\frac{1}{16}$	8	10 $\frac{3}{4}$	27	5 $\frac{1}{16}$	9	7 $\frac{1}{2}$	29	8 $\frac{1}{2}$ - $\frac{1}{16}$
8	2 $\frac{1}{4}$	25	2 $\frac{3}{8}$	8	11	27	5 $\frac{3}{4}$ - $\frac{1}{16}$	9	7 $\frac{3}{4}$	29	9 $\frac{1}{4}$ - $\frac{1}{16}$
8	2 $\frac{1}{2}$	25	3 $\frac{1}{8}$ - $\frac{1}{16}$	8	11 $\frac{1}{4}$	27	6 $\frac{3}{8}$	9	8	29	10 $\frac{1}{8}$
8	2 $\frac{3}{4}$	25	3 $\frac{7}{8}$ - $\frac{1}{16}$	8	11 $\frac{1}{2}$	27	7 $\frac{3}{8}$ - $\frac{1}{16}$	9	8 $\frac{1}{4}$	29	10 $\frac{7}{8}$
8	3	25	4 $\frac{5}{8}$ - $\frac{1}{16}$	8	11 $\frac{3}{4}$	27	8 $\frac{1}{8}$ - $\frac{1}{16}$	9	8 $\frac{1}{2}$	29	11 $\frac{5}{8}$ - $\frac{1}{16}$
8	3 $\frac{1}{4}$	25	5 $\frac{1}{2}$	9	0	27	9	9	8 $\frac{3}{4}$	30	0 $\frac{3}{8}$ - $\frac{1}{16}$
8	3 $\frac{1}{2}$	25	6 $\frac{1}{4}$ - $\frac{1}{16}$	9	0 $\frac{1}{4}$	27	9 $\frac{3}{4}$	9	9	30	1 $\frac{1}{4}$
8	3 $\frac{3}{4}$	25	7 $\frac{7}{8}$	9	0 $\frac{1}{2}$	27	10 $\frac{1}{2}$	9	9 $\frac{1}{4}$	30	2
8	4	25	7 $\frac{7}{8}$	9	0 $\frac{3}{4}$	27	11 $\frac{1}{4}$ - $\frac{1}{16}$	9	9 $\frac{1}{2}$	30	2 $\frac{3}{4}$ - $\frac{1}{16}$
8	4 $\frac{1}{4}$	25	8 $\frac{5}{8}$ - $\frac{1}{16}$	9	1	28	0 $\frac{1}{8}$	9	9 $\frac{3}{4}$	30	3 $\frac{5}{8}$
8	4 $\frac{1}{2}$	25	9 $\frac{3}{8}$ - $\frac{1}{16}$	9	1 $\frac{1}{4}$	28	0 $\frac{7}{8}$	9	10	30	4 $\frac{3}{8}$
8	4 $\frac{3}{4}$	25	10 $\frac{1}{8}$ - $\frac{1}{16}$	9	1 $\frac{1}{2}$	28	1 $\frac{5}{8}$ - $\frac{1}{16}$	9	10 $\frac{1}{4}$	30	5 $\frac{1}{8}$ - $\frac{1}{16}$
8	5	25	11	9	1 $\frac{3}{4}$	28	2 $\frac{1}{2}$	9	10 $\frac{1}{2}$	30	6
8	5 $\frac{1}{4}$	25	11 $\frac{3}{4}$ - $\frac{1}{16}$	9	2	28	3 $\frac{1}{4}$	9	10 $\frac{3}{4}$	30	6 $\frac{3}{4}$
8	5 $\frac{1}{2}$	26	0 $\frac{1}{2}$ - $\frac{1}{16}$	9	2 $\frac{1}{4}$	28	4	9	11	30	7 $\frac{1}{2}$
8	5 $\frac{3}{4}$	26	1 $\frac{3}{8}$	9	2 $\frac{1}{2}$	28	4 $\frac{7}{8}$	9	11 $\frac{1}{4}$	30	8 $\frac{1}{4}$ - $\frac{1}{16}$
8	6	26	2 $\frac{1}{8}$ - $\frac{1}{16}$	9	2 $\frac{3}{4}$	28	5 $\frac{5}{8}$	9	11 $\frac{1}{2}$	30	9 $\frac{1}{8}$
8	6 $\frac{1}{4}$	26	2 $\frac{7}{8}$ - $\frac{1}{16}$	9	3	28	6 $\frac{3}{8}$	9	11 $\frac{3}{4}$	30	9 $\frac{7}{8}$
8	6 $\frac{1}{2}$	26	3 $\frac{3}{8}$ - $\frac{1}{16}$	9	3 $\frac{1}{4}$	28	7 $\frac{7}{8}$ - $\frac{1}{16}$	10	0	30	10 $\frac{5}{8}$
8	6 $\frac{3}{4}$	26	4 $\frac{1}{2}$	9	3 $\frac{1}{2}$	28	8	10	0 $\frac{1}{4}$	30	11 $\frac{3}{8}$ - $\frac{1}{16}$
8	7	26	5 $\frac{1}{4}$ - $\frac{1}{16}$	9	3 $\frac{3}{4}$	28	8 $\frac{3}{4}$	10	0 $\frac{1}{2}$	31	0 $\frac{1}{4}$
8	7 $\frac{1}{4}$	26	6 $\frac{1}{16}$	9	4	28	9 $\frac{1}{2}$	10	0 $\frac{3}{4}$	31	1
8	7 $\frac{1}{2}$	26	6 $\frac{3}{4}$ - $\frac{1}{16}$	9	4 $\frac{1}{4}$	28	10 $\frac{1}{4}$ - $\frac{1}{16}$	10	1	31	1 $\frac{3}{4}$ - $\frac{1}{16}$
8	7 $\frac{3}{4}$	26	7 $\frac{7}{8}$	9	4 $\frac{1}{2}$	28	11 $\frac{1}{8}$	10	1 $\frac{1}{4}$	31	2 $\frac{5}{8}$
8	8	26	8 $\frac{3}{8}$ - $\frac{1}{16}$	9	4 $\frac{3}{4}$	28	11 $\frac{7}{8}$	10	1 $\frac{1}{2}$	31	3 $\frac{3}{8}$
8	8 $\frac{1}{4}$	26	9 $\frac{1}{8}$ - $\frac{1}{16}$	9	5	29	0 $\frac{5}{8}$ - $\frac{1}{16}$	10	1 $\frac{3}{4}$	31	4 $\frac{1}{8}$
8	8 $\frac{1}{2}$	26	10	9	5 $\frac{1}{4}$	29	1 $\frac{1}{2}$	10	2	31	5
8	8 $\frac{3}{4}$	26	10 $\frac{3}{4}$	9	5 $\frac{1}{2}$	29	2 $\frac{1}{4}$	10	2 $\frac{1}{4}$	31	5 $\frac{3}{4}$
8	9	26	11 $\frac{1}{2}$ - $\frac{1}{16}$	9	5 $\frac{3}{4}$	29	3	10	2 $\frac{1}{2}$	31	6 $\frac{1}{2}$
8	9 $\frac{1}{4}$	27	0 $\frac{1}{4}$ - $\frac{1}{16}$	9	6	29	3 $\frac{3}{4}$ - $\frac{1}{16}$	10	2 $\frac{3}{4}$	31	7 $\frac{1}{4}$ - $\frac{1}{16}$

# 202 DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	3	31	8 $\frac{1}{8}$	10	11 $\frac{3}{4}$	33	11 $\frac{1}{2}$ - $\frac{1}{16}$	11	8 $\frac{1}{2}$	36	3 $\frac{1}{16}$
10	3 $\frac{1}{4}$	31	8 $\frac{7}{8}$	11	0	34	0 $\frac{3}{8}$	11	8 $\frac{3}{4}$	36	3 $\frac{7}{8}$
10	3 $\frac{1}{2}$	31	9 $\frac{5}{8}$ - $\frac{1}{16}$	11	0 $\frac{1}{4}$	34	1 $\frac{1}{8}$ - $\frac{1}{16}$	11	9	36	4 $\frac{5}{8}$
10	3 $\frac{3}{4}$	31	10 $\frac{3}{8}$ - $\frac{1}{16}$	11	0 $\frac{1}{2}$	34	1 $\frac{7}{8}$ - $\frac{1}{16}$	11	9 $\frac{1}{4}$	36	5 $\frac{3}{8}$ - $\frac{1}{16}$
10	4	31	11 $\frac{1}{4}$	11	0 $\frac{3}{4}$	34	2 $\frac{3}{4}$	11	9 $\frac{1}{2}$	36	6 $\frac{1}{4}$
10	4 $\frac{1}{4}$	32	0	11	1	34	3 $\frac{1}{2}$	11	9 $\frac{3}{4}$	36	7
10	4 $\frac{1}{2}$	32	0 $\frac{3}{4}$ - $\frac{1}{16}$	11	1 $\frac{1}{4}$	34	4 $\frac{1}{4}$ - $\frac{1}{16}$	11	10	36	7 $\frac{3}{4}$ - $\frac{1}{16}$
10	4 $\frac{3}{4}$	32	1 $\frac{5}{8}$	11	1 $\frac{1}{2}$	34	5 $\frac{1}{16}$	11	10 $\frac{1}{4}$	36	8 $\frac{1}{2}$ - $\frac{1}{16}$
10	5	32	2 $\frac{3}{8}$	11	1 $\frac{3}{4}$	34	5 $\frac{7}{8}$	11	10 $\frac{1}{2}$	36	9 $\frac{3}{8}$
10	5 $\frac{1}{4}$	32	3 $\frac{1}{8}$ - $\frac{1}{16}$	11	2	34	6 $\frac{5}{8}$ - $\frac{1}{16}$	11	10 $\frac{3}{4}$	36	10 $\frac{1}{8}$
10	5 $\frac{1}{2}$	32	3 $\frac{7}{8}$ - $\frac{1}{16}$	11	2 $\frac{1}{4}$	34	7 $\frac{3}{8}$ - $\frac{1}{16}$	11	11	36	10 $\frac{5}{8}$ - $\frac{1}{16}$
10	5 $\frac{3}{4}$	32	4 $\frac{3}{4}$	11	2 $\frac{1}{2}$	34	8 $\frac{1}{4}$	11	11 $\frac{1}{4}$	36	11 $\frac{3}{4}$
10	6	32	5 $\frac{1}{2}$	11	2 $\frac{3}{4}$	34	9	11	11 $\frac{1}{2}$	37	0 $\frac{1}{2}$
10	6 $\frac{1}{4}$	32	6 $\frac{1}{4}$ - $\frac{1}{16}$	11	3	34	9 $\frac{3}{4}$ - $\frac{1}{16}$	11	11 $\frac{3}{4}$	37	1 $\frac{1}{4}$ - $\frac{1}{16}$
10	6 $\frac{1}{2}$	32	7 $\frac{1}{8}$	11	3 $\frac{1}{4}$	34	10 $\frac{1}{2}$ - $\frac{1}{16}$	12	0	37	2 $\frac{1}{16}$
10	6 $\frac{3}{4}$	32	7 $\frac{7}{8}$	11	3 $\frac{1}{2}$	34	11 $\frac{3}{8}$	12	0 $\frac{1}{4}$	37	2 $\frac{7}{8}$
10	7	32	8 $\frac{5}{8}$ - $\frac{1}{16}$	11	3 $\frac{3}{4}$	35	0 $\frac{1}{8}$	12	0 $\frac{1}{2}$	37	3 $\frac{5}{8}$
10	7 $\frac{1}{4}$	32	9 $\frac{3}{8}$ - $\frac{1}{16}$	11	4	35	0 $\frac{7}{8}$ - $\frac{1}{16}$	12	0 $\frac{3}{4}$	37	4 $\frac{3}{8}$ - $\frac{1}{16}$
10	7 $\frac{1}{2}$	32	10 $\frac{1}{4}$	11	4 $\frac{1}{4}$	35	1 $\frac{1}{4}$	12	1	37	5 $\frac{1}{4}$
10	7 $\frac{3}{4}$	32	11	11	4 $\frac{1}{2}$	35	2 $\frac{1}{2}$	12	1 $\frac{1}{4}$	37	6
10	8	32	11 $\frac{3}{4}$ - $\frac{1}{16}$	11	4 $\frac{3}{4}$	35	3 $\frac{1}{4}$ - $\frac{1}{16}$	12	1 $\frac{1}{2}$	37	6 $\frac{3}{4}$
10	8 $\frac{1}{4}$	33	0 $\frac{5}{8}$	11	5	35	4 $\frac{1}{16}$	12	1 $\frac{3}{4}$	37	7 $\frac{1}{2}$ - $\frac{1}{16}$
10	8 $\frac{1}{2}$	33	1 $\frac{3}{8}$	11	5 $\frac{1}{4}$	35	4 $\frac{7}{8}$	12	2	37	8 $\frac{3}{8}$
10	8 $\frac{3}{4}$	33	2 $\frac{1}{8}$ - $\frac{1}{16}$	11	5 $\frac{1}{2}$	35	5 $\frac{5}{8}$	12	2 $\frac{1}{4}$	37	9 $\frac{1}{8}$
10	9	33	3	11	5 $\frac{3}{4}$	35	6 $\frac{3}{8}$ - $\frac{1}{16}$	12	2 $\frac{1}{2}$	37	9 $\frac{7}{8}$
10	9 $\frac{1}{4}$	33	3 $\frac{3}{4}$	11	6	35	7 $\frac{1}{4}$	12	2 $\frac{3}{4}$	37	10 $\frac{3}{4}$
10	9 $\frac{1}{2}$	33	4 $\frac{1}{2}$	11	6 $\frac{1}{4}$	35	8	12	3	37	11 $\frac{1}{2}$
10	9 $\frac{3}{4}$	33	5 $\frac{1}{4}$ - $\frac{1}{16}$	11	6 $\frac{1}{2}$	35	8 $\frac{3}{4}$ - $\frac{1}{16}$	12	3 $\frac{1}{4}$	38	0 $\frac{1}{4}$ - $\frac{1}{16}$
10	10	33	6 $\frac{1}{16}$	11	6 $\frac{3}{4}$	35	9 $\frac{1}{2}$ - $\frac{1}{16}$	12	3 $\frac{1}{2}$	38	1 $\frac{1}{8}$
10	10 $\frac{1}{4}$	33	6 $\frac{7}{8}$	11	7	35	10 $\frac{3}{8}$	12	3 $\frac{3}{4}$	38	1 $\frac{7}{8}$
10	10 $\frac{1}{2}$	33	7 $\frac{5}{8}$ - $\frac{1}{16}$	11	7 $\frac{1}{4}$	35	11 $\frac{1}{8}$	12	4	38	2 $\frac{5}{8}$
10	10 $\frac{3}{4}$	33	8 $\frac{3}{8}$ - $\frac{1}{16}$	11	7 $\frac{1}{2}$	35	11 $\frac{7}{8}$ - $\frac{1}{16}$	12	4 $\frac{1}{4}$	38	3 $\frac{3}{8}$
10	11	33	9 $\frac{1}{4}$	11	7 $\frac{3}{4}$	36	0 $\frac{5}{8}$ - $\frac{1}{16}$	12	4 $\frac{1}{2}$	38	4 $\frac{1}{8}$ - $\frac{1}{16}$
10	11 $\frac{1}{4}$	33	10	11	8	36	1 $\frac{1}{2}$	12	4 $\frac{3}{4}$	38	5
10	11 $\frac{1}{2}$	33	10 $\frac{3}{4}$ - $\frac{1}{16}$	11	8 $\frac{1}{4}$	36	2 $\frac{1}{4}$ - $\frac{1}{16}$	12	5	38	5 $\frac{3}{4}$ - $\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 203

DIAGONAL MEASUREMENT AT THE ROOT, 1-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	5 $\frac{1}{4}$	38	6 $\frac{5}{8}$	12	7 $\frac{3}{4}$	39	2 $\frac{3}{8}$ - $\frac{1}{16}$	12	10 $\frac{1}{4}$	39	10 $\frac{1}{4}$ - $\frac{1}{16}$
12	5 $\frac{1}{2}$	38	7 $\frac{3}{8}$	12	8	39	3 $\frac{1}{4}$	12	10 $\frac{1}{2}$	39	11 $\frac{1}{16}$
12	5 $\frac{3}{4}$	38	8 $\frac{1}{8}$	12	8 $\frac{1}{4}$	39	4	12	10 $\frac{3}{4}$	39	11 $\frac{3}{4}$ - $\frac{1}{16}$
12	6	38	8 $\frac{7}{8}$ - $\frac{1}{16}$	12	8 $\frac{1}{2}$	39	4 $\frac{3}{4}$ - $\frac{1}{16}$	12	11	40	0 $\frac{3}{8}$
12	6 $\frac{1}{4}$	38	9 $\frac{3}{4}$	12	8 $\frac{3}{4}$	39	5 $\frac{1}{2}$ - $\frac{1}{16}$	12	11 $\frac{1}{4}$	40	1 $\frac{3}{8}$ - $\frac{1}{16}$
12	6 $\frac{1}{2}$	38	10 $\frac{1}{2}$	12	9	39	6 $\frac{3}{8}$	12	11 $\frac{1}{2}$	40	2 $\frac{1}{8}$ - $\frac{1}{16}$
12	6 $\frac{3}{4}$	38	11 $\frac{1}{4}$	12	9 $\frac{1}{4}$	39	7 $\frac{1}{8}$	12	11 $\frac{3}{4}$	40	2 $\frac{7}{8}$ - $\frac{1}{16}$
12	7	39	0 $\frac{1}{16}$	12	9 $\frac{1}{2}$	39	7 $\frac{7}{8}$ - $\frac{1}{16}$	13	0	40	3 $\frac{3}{4}$ - $\frac{1}{16}$
12	7 $\frac{1}{4}$	39	0 $\frac{7}{8}$	12	9 $\frac{3}{4}$	39	8 $\frac{5}{8}$ - $\frac{1}{16}$				
12	7 $\frac{1}{2}$	39	1 $\frac{5}{8}$	12	10	39	9 $\frac{1}{2}$				

DIAGONAL MEASUREMENT AT THE ROOT, 1 $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	6 $\frac{5}{8}$	1	2 $\frac{1}{4}$	3	1 $\frac{5}{8}$ - $\frac{1}{16}$	1	4 $\frac{1}{2}$	3	8 $\frac{3}{4}$
1	0 $\frac{1}{8}$	2	7	1	2 $\frac{3}{8}$	3	2 $\frac{1}{16}$	1	4 $\frac{5}{8}$	3	9 $\frac{1}{8}$
1	0 $\frac{1}{4}$	2	7 $\frac{3}{8}$	1	2 $\frac{1}{2}$	3	2 $\frac{3}{8}$ - $\frac{1}{16}$	1	4 $\frac{3}{4}$	3	9 $\frac{1}{2}$ - $\frac{1}{16}$
1	0 $\frac{3}{8}$	2	7 $\frac{7}{8}$ - $\frac{1}{16}$	1	2 $\frac{5}{8}$	3	2 $\frac{3}{4}$ - $\frac{1}{16}$	1	4 $\frac{7}{8}$	3	9 $\frac{7}{8}$ - $\frac{1}{16}$
1	0 $\frac{1}{2}$	2	8 $\frac{1}{8}$ - $\frac{1}{16}$	1	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	1	5	3	10 $\frac{1}{4}$ - $\frac{1}{16}$
1	0 $\frac{5}{8}$	2	8 $\frac{1}{2}$ - $\frac{1}{16}$	1	2 $\frac{7}{8}$	3	3 $\frac{3}{8}$	1	5 $\frac{1}{8}$	3	10 $\frac{5}{8}$ - $\frac{1}{16}$
1	0 $\frac{3}{4}$	2	8 $\frac{7}{8}$ - $\frac{1}{16}$	1	3	3	4 $\frac{1}{16}$	1	5 $\frac{1}{4}$	3	11 $\frac{1}{16}$
1	0 $\frac{7}{8}$	2	9 $\frac{1}{4}$ - $\frac{1}{16}$	1	3 $\frac{1}{8}$	3	4 $\frac{3}{8}$ - $\frac{1}{16}$	1	5 $\frac{3}{8}$	3	11 $\frac{1}{2}$
1	1	2	9 $\frac{3}{4}$	1	3 $\frac{1}{4}$	3	4 $\frac{3}{4}$ - $\frac{1}{16}$	1	5 $\frac{1}{2}$	3	11 $\frac{7}{8}$
1	1 $\frac{1}{8}$	2	10 $\frac{1}{8}$	1	3 $\frac{3}{8}$	3	5 $\frac{1}{8}$ - $\frac{1}{16}$	1	5 $\frac{5}{8}$	4	0 $\frac{1}{4}$
1	1 $\frac{1}{4}$	2	10 $\frac{1}{2}$ - $\frac{1}{16}$	1	3 $\frac{1}{2}$	3	5 $\frac{1}{2}$ - $\frac{1}{16}$	1	5 $\frac{3}{4}$	4	0 $\frac{5}{8}$ - $\frac{1}{16}$
1	1 $\frac{3}{8}$	2	10 $\frac{7}{8}$ - $\frac{1}{16}$	1	3 $\frac{5}{8}$	3	6	1	5 $\frac{7}{8}$	4	1 $\frac{1}{16}$
1	1 $\frac{1}{2}$	2	11 $\frac{1}{4}$ - $\frac{1}{16}$	1	3 $\frac{3}{4}$	3	6 $\frac{3}{8}$	1	6	4	1 $\frac{3}{8}$ - $\frac{1}{16}$
1	1 $\frac{5}{8}$	2	11 $\frac{5}{8}$ - $\frac{1}{16}$	1	3 $\frac{7}{8}$	3	6 $\frac{3}{4}$ - $\frac{1}{16}$	1	6 $\frac{1}{8}$	4	1 $\frac{3}{4}$ - $\frac{1}{16}$
1	1 $\frac{3}{4}$	3	0 $\frac{1}{16}$	1	4	3	7 $\frac{1}{8}$ - $\frac{1}{16}$	1	6 $\frac{1}{4}$	4	2 $\frac{1}{4}$
1	1 $\frac{7}{8}$	3	0 $\frac{1}{2}$	1	4 $\frac{1}{8}$	3	7 $\frac{1}{2}$ - $\frac{1}{16}$	1	6 $\frac{3}{8}$	4	2 $\frac{5}{8}$
1	2	3	0 $\frac{7}{8}$	1	4 $\frac{1}{4}$	3	7 $\frac{7}{8}$ - $\frac{1}{16}$	1	6 $\frac{1}{2}$	4	3 $\frac{1}{16}$
1	2 $\frac{1}{8}$	3	1 $\frac{1}{4}$ - $\frac{1}{16}$	1	4 $\frac{3}{8}$	3	8 $\frac{1}{4}$ - $\frac{1}{16}$	1	6 $\frac{5}{8}$	4	3 $\frac{3}{8}$ - $\frac{1}{16}$

204 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	$6\frac{3}{4}$	4	$3\frac{3}{4}-\frac{1}{16}$	1	$11\frac{1}{8}$	5	$5\frac{1}{2}-\frac{1}{16}$	2	$3\frac{1}{2}$	6	$7\frac{1}{4}-\frac{1}{16}$
1	$6\frac{7}{8}$	4	$4\frac{1}{8}-\frac{1}{16}$	1	$11\frac{1}{4}$	5	$5\frac{7}{8}-\frac{1}{16}$	2	$3\frac{5}{8}$	6	$7\frac{3}{4}$
1	7	4	$4\frac{1}{2}-\frac{1}{16}$	1	$11\frac{3}{8}$	5	$6\frac{1}{4}-\frac{1}{16}$	2	$3\frac{3}{4}$	6	$8\frac{1}{8}$
1	$7\frac{1}{8}$	4	5	1	$11\frac{1}{2}$	5	$6\frac{3}{4}$	2	$3\frac{7}{8}$	6	$8\frac{1}{2}$
1	$7\frac{1}{4}$	4	$5\frac{3}{8}$	1	$11\frac{5}{8}$	5	$7\frac{1}{8}$	2	4	6	$8\frac{7}{8}$
1	$7\frac{3}{8}$	4	$5\frac{3}{4}-\frac{1}{16}$	1	$11\frac{3}{4}$	5	$7\frac{1}{2}$	2	$4\frac{1}{8}$	6	$9\frac{1}{4}$
1	$7\frac{1}{2}$	4	$6\frac{1}{8}-\frac{1}{16}$	1	$11\frac{7}{8}$	5	$7\frac{7}{8}$	2	$4\frac{1}{4}$	6	$9\frac{5}{8}-\frac{1}{16}$
1	$7\frac{5}{8}$	4	$6\frac{1}{2}-\frac{1}{16}$	2	0	5	$8\frac{1}{4}-\frac{1}{16}$	2	$4\frac{3}{8}$	6	$10\frac{1}{16}$
1	$7\frac{3}{4}$	4	$6\frac{7}{8}-\frac{1}{16}$	2	$0\frac{1}{8}$	5	$8\frac{5}{8}-\frac{1}{16}$	2	$4\frac{1}{2}$	6	$10\frac{3}{8}-\frac{1}{16}$
1	$7\frac{7}{8}$	4	$7\frac{1}{4}-\frac{1}{16}$	2	$0\frac{1}{4}$	5	$9\frac{1}{16}$	2	$4\frac{5}{8}$	6	$10\frac{3}{4}-\frac{1}{16}$
1	8	4	$7\frac{3}{4}$	2	$0\frac{3}{8}$	5	$9\frac{1}{2}$	2	$4\frac{3}{4}$	6	$11\frac{1}{4}$
1	$8\frac{1}{8}$	4	$8\frac{1}{8}$	2	$0\frac{1}{2}$	5	$9\frac{7}{8}$	2	$4\frac{7}{8}$	6	$11\frac{5}{8}$
1	$8\frac{1}{4}$	4	$8\frac{1}{2}$	2	$0\frac{5}{8}$	5	$10\frac{1}{4}$	2	5	7	0
1	$8\frac{3}{8}$	4	$8\frac{7}{8}-\frac{1}{16}$	2	$0\frac{3}{4}$	5	$10\frac{5}{8}$	2	$5\frac{1}{8}$	7	$0\frac{3}{8}-\frac{1}{16}$
1	$8\frac{1}{2}$	4	$9\frac{1}{4}-\frac{1}{16}$	2	$0\frac{7}{8}$	5	$11\frac{1}{16}$	2	$5\frac{1}{4}$	7	$0\frac{3}{4}-\frac{1}{16}$
1	$8\frac{5}{8}$	4	$9\frac{5}{8}-\frac{1}{16}$	2	1	5	$11\frac{3}{8}-\frac{1}{16}$	2	$5\frac{3}{8}$	7	$1\frac{1}{8}-\frac{1}{16}$
1	$8\frac{3}{4}$	4	$10\frac{1}{16}$	2	$1\frac{1}{8}$	5	$11\frac{3}{4}-\frac{1}{16}$	2	$5\frac{1}{2}$	7	$1\frac{1}{2}-\frac{1}{16}$
1	$8\frac{7}{8}$	4	$10\frac{1}{2}$	2	$1\frac{1}{4}$	6	$0\frac{1}{4}$	2	$5\frac{5}{8}$	7	2
1	9	4	$10\frac{7}{8}$	2	$1\frac{3}{8}$	6	$0\frac{5}{8}$	2	$5\frac{3}{4}$	7	$2\frac{3}{8}$
1	$9\frac{1}{8}$	4	$11\frac{1}{4}$	2	$1\frac{1}{2}$	6	1	2	$5\frac{7}{8}$	7	$2\frac{3}{4}$
1	$9\frac{1}{4}$	4	$11\frac{5}{8}-\frac{1}{16}$	2	$1\frac{5}{8}$	6	$1\frac{3}{8}$	2	6	7	$3\frac{1}{8}$
1	$9\frac{3}{8}$	5	$0\frac{1}{16}$	2	$1\frac{3}{4}$	6	$1\frac{3}{4}-\frac{1}{16}$	2	$6\frac{1}{8}$	7	$3\frac{1}{2}-\frac{1}{16}$
1	$9\frac{1}{2}$	5	$0\frac{3}{8}-\frac{1}{16}$	2	$1\frac{7}{8}$	6	$2\frac{1}{8}-\frac{1}{16}$	2	$6\frac{1}{4}$	7	$3\frac{7}{8}-\frac{1}{16}$
1	$9\frac{5}{8}$	5	$0\frac{3}{4}-\frac{1}{16}$	2	2	6	$2\frac{1}{2}-\frac{1}{16}$	2	$6\frac{3}{8}$	7	$4\frac{1}{4}-\frac{1}{16}$
1	$9\frac{3}{4}$	5	$1\frac{1}{4}$	2	$2\frac{1}{8}$	6	3	2	$6\frac{1}{2}$	7	$4\frac{3}{4}$
1	$9\frac{7}{8}$	5	$1\frac{5}{8}$	2	$2\frac{1}{4}$	6	$3\frac{3}{8}$	2	$6\frac{5}{8}$	7	$5\frac{1}{8}$
1	10	5	2	2	$2\frac{3}{8}$	6	$3\frac{3}{4}$	2	$6\frac{3}{4}$	7	$5\frac{1}{2}$
1	$10\frac{1}{8}$	5	$2\frac{3}{8}-\frac{1}{16}$	2	$2\frac{1}{2}$	6	$4\frac{1}{8}$	2	$6\frac{7}{8}$	7	$5\frac{7}{8}$
1	$10\frac{1}{4}$	5	$2\frac{3}{4}-\frac{1}{16}$	2	$2\frac{5}{8}$	6	$4\frac{1}{2}-\frac{1}{16}$	2	7	7	$6\frac{1}{4}-\frac{1}{16}$
1	$10\frac{3}{8}$	5	$3\frac{1}{8}-\frac{1}{16}$	2	$2\frac{3}{4}$	6	$4\frac{7}{8}-\frac{1}{16}$	2	$7\frac{1}{8}$	7	$6\frac{3}{8}-\frac{1}{16}$
1	$10\frac{1}{2}$	5	$3\frac{1}{2}-\frac{1}{16}$	2	$2\frac{7}{8}$	6	$5\frac{1}{4}-\frac{1}{16}$	2	$7\frac{1}{4}$	7	$7\frac{1}{16}$
1	$10\frac{5}{8}$	5	4	2	3	6	$5\frac{3}{4}$	2	$7\frac{3}{8}$	7	$7\frac{3}{8}-\frac{1}{16}$
1	$10\frac{3}{4}$	5	$4\frac{3}{8}$	2	$3\frac{1}{8}$	6	$6\frac{1}{8}$	2	$7\frac{1}{2}$	7	$7\frac{7}{8}$
1	$10\frac{7}{8}$	5	$4\frac{3}{4}$	2	$3\frac{1}{4}$	6	$6\frac{1}{2}$	2	$7\frac{5}{8}$	7	$8\frac{1}{4}$
1	11	5	$5\frac{1}{8}-\frac{1}{16}$	2	$3\frac{3}{8}$	6	$6\frac{7}{8}-\frac{1}{16}$	2	$7\frac{3}{4}$	7	$8\frac{5}{8}$



ANGLE-IRON RINGS (FLANGE INSIDE). 205

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
t.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
2	7 $\frac{7}{8}$	7	9 $\frac{1}{16}$	3	0 $\frac{1}{4}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	4 $\frac{5}{8}$	10	0 $\frac{1}{2}$ - $\frac{1}{16}$
2	8	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	3	0 $\frac{3}{8}$	8	11 $\frac{1}{8}$ - $\frac{1}{16}$	3	4 $\frac{3}{4}$	10	1
2	8 $\frac{1}{8}$	7	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	0 $\frac{1}{2}$	8	11 $\frac{5}{8}$	3	4 $\frac{7}{8}$	10	1 $\frac{3}{8}$
2	8 $\frac{1}{4}$	7	10 $\frac{1}{4}$	3	0 $\frac{5}{8}$	9	0	3	5	10	1 $\frac{1}{4}$
2	8 $\frac{3}{8}$	7	10 $\frac{3}{8}$	3	0 $\frac{3}{4}$	9	0 $\frac{3}{8}$	3	5 $\frac{1}{8}$	10	2 $\frac{1}{8}$
2	8 $\frac{1}{2}$	7	11	3	0 $\frac{7}{8}$	9	0 $\frac{1}{4}$ - $\frac{1}{16}$	3	5 $\frac{1}{4}$	10	2 $\frac{1}{2}$
2	8 $\frac{5}{8}$	7	11 $\frac{3}{8}$	3	1	9	1 $\frac{1}{8}$ - $\frac{1}{16}$	3	5 $\frac{3}{8}$	10	2 $\frac{7}{8}$
2	8 $\frac{3}{4}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	1 $\frac{1}{8}$	9	1 $\frac{5}{8}$	3	5 $\frac{1}{2}$	10	3 $\frac{1}{4}$ - $\frac{1}{16}$
2	8 $\frac{7}{8}$	8	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{1}{4}$	9	2	3	5 $\frac{5}{8}$	10	3 $\frac{5}{8}$ - $\frac{1}{16}$
2	9	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	1 $\frac{3}{8}$	9	2 $\frac{3}{8}$	3	5 $\frac{3}{4}$	10	4 $\frac{1}{8}$
2	9 $\frac{1}{8}$	8	1	3	1 $\frac{1}{2}$	9	2 $\frac{1}{4}$	3	5 $\frac{7}{8}$	10	4 $\frac{1}{2}$
2	9 $\frac{1}{4}$	8	1 $\frac{3}{8}$	3	1 $\frac{5}{8}$	9	3 $\frac{1}{8}$	3	6	10	4 $\frac{7}{8}$
2	9 $\frac{3}{8}$	8	1 $\frac{3}{4}$ - $\frac{1}{16}$	3	1 $\frac{3}{4}$	9	3 $\frac{1}{2}$	3	6 $\frac{1}{8}$	10	5 $\frac{1}{4}$ - $\frac{1}{16}$
2	9 $\frac{1}{2}$	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	3	1 $\frac{7}{8}$	9	3 $\frac{7}{8}$	3	6 $\frac{1}{4}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$
2	9 $\frac{5}{8}$	8	2 $\frac{1}{2}$ - $\frac{1}{16}$	3	2	9	4 $\frac{1}{4}$ - $\frac{1}{16}$	3	6 $\frac{3}{8}$	10	6 $\frac{1}{16}$
2	9 $\frac{3}{4}$	8	3	3	2 $\frac{1}{8}$	9	4 $\frac{5}{8}$ - $\frac{1}{16}$	3	6 $\frac{1}{2}$	10	6 $\frac{3}{8}$ - $\frac{1}{16}$
2	9 $\frac{7}{8}$	8	3 $\frac{3}{8}$	3	2 $\frac{1}{4}$	9	5 $\frac{1}{16}$	3	6 $\frac{5}{8}$	10	6 $\frac{3}{4}$ - $\frac{1}{16}$
2	10	8	3 $\frac{3}{4}$	3	2 $\frac{3}{8}$	9	5 $\frac{1}{2}$	3	6 $\frac{3}{4}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$
2	10 $\frac{1}{8}$	8	4 $\frac{1}{8}$	3	2 $\frac{1}{2}$	9	5 $\frac{7}{8}$	3	6 $\frac{7}{8}$	10	7 $\frac{5}{8}$
2	10 $\frac{1}{4}$	8	4 $\frac{1}{2}$	3	2 $\frac{5}{8}$	9	6 $\frac{1}{4}$ - $\frac{1}{16}$	3	7	10	8
2	10 $\frac{3}{8}$	8	4 $\frac{7}{8}$	3	2 $\frac{3}{4}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$	3	7 $\frac{1}{8}$	10	8 $\frac{3}{8}$
2	10 $\frac{1}{2}$	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	2 $\frac{7}{8}$	9	7 $\frac{1}{16}$	3	7 $\frac{1}{4}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$
2	10 $\frac{5}{8}$	8	5 $\frac{5}{8}$ - $\frac{1}{16}$	3	3	9	7 $\frac{3}{8}$ - $\frac{1}{16}$	3	7 $\frac{3}{8}$	10	9 $\frac{1}{8}$ - $\frac{1}{16}$
2	10 $\frac{3}{4}$	8	6 $\frac{1}{16}$	3	3 $\frac{1}{8}$	9	7 $\frac{3}{4}$ - $\frac{1}{16}$	3	7 $\frac{1}{2}$	10	9 $\frac{5}{8}$
2	10 $\frac{7}{8}$	8	6 $\frac{1}{2}$	3	3 $\frac{1}{4}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$	3	7 $\frac{5}{8}$	10	10
2	11	8	6 $\frac{7}{8}$	3	3 $\frac{3}{8}$	9	8 $\frac{1}{2}$ - $\frac{1}{16}$	3	7 $\frac{3}{4}$	10	10 $\frac{3}{8}$
2	11 $\frac{1}{8}$	8	7 $\frac{1}{4}$ - $\frac{1}{16}$	3	3 $\frac{1}{2}$	9	9	3	7 $\frac{7}{8}$	10	10 $\frac{3}{4}$ - $\frac{1}{16}$
2	11 $\frac{1}{4}$	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	3	3 $\frac{5}{8}$	9	9 $\frac{3}{8}$	3	8	10	11 $\frac{1}{8}$ - $\frac{1}{16}$
2	11 $\frac{3}{8}$	8	8 $\frac{1}{16}$	3	3 $\frac{3}{4}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$	3	8 $\frac{1}{8}$	10	11 $\frac{1}{2}$ - $\frac{1}{16}$
2	11 $\frac{1}{2}$	8	8 $\frac{1}{2}$	3	3 $\frac{7}{8}$	9	10 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{1}{4}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$
2	11 $\frac{5}{8}$	8	8 $\frac{7}{8}$	3	4	9	10 $\frac{1}{2}$ - $\frac{1}{16}$	3	8 $\frac{3}{8}$	11	0 $\frac{1}{4}$ - $\frac{1}{16}$
2	11 $\frac{3}{4}$	8	9 $\frac{1}{4}$	3	4 $\frac{1}{8}$	9	11	3	8 $\frac{1}{2}$	11	0 $\frac{5}{8}$ - $\frac{1}{16}$
2	11 $\frac{7}{8}$	8	9 $\frac{5}{8}$	3	4 $\frac{1}{4}$	9	11 $\frac{3}{8}$	3	8 $\frac{5}{8}$	11	1 $\frac{1}{16}$
3	0	8	10	3	4 $\frac{3}{8}$	9	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	8 $\frac{3}{4}$	11	1 $\frac{1}{2}$
3	0 $\frac{1}{8}$	8	10 $\frac{3}{8}$	3	4 $\frac{1}{2}$	10	0 $\frac{1}{8}$ - $\frac{1}{16}$	3	8 $\frac{7}{8}$	11	1 $\frac{7}{8}$

# 206      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	9	11	$2\frac{1}{4}-\frac{1}{16}$	4	$1\frac{3}{8}$	12	$4\frac{1}{16}$	4	$5\frac{3}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$
3	$9\frac{1}{8}$	11	$2\frac{5}{8}-\frac{1}{16}$	4	$1\frac{1}{2}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$5\frac{7}{8}$	13	$6\frac{1}{8}-\frac{1}{16}$
3	$9\frac{1}{4}$	11	$3\frac{1}{16}$	4	$1\frac{5}{8}$	12	$4\frac{3}{4}-\frac{1}{16}$	4	6	13	$6\frac{1}{2}-\frac{1}{16}$
3	$9\frac{3}{8}$	11	$3\frac{1}{2}$	4	$1\frac{3}{4}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	$6\frac{1}{8}$	13	7
3	$9\frac{1}{2}$	11	$3\frac{7}{8}$	4	$1\frac{7}{8}$	12	$5\frac{1}{2}-\frac{1}{16}$	4	$6\frac{1}{4}$	13	$7\frac{3}{8}$
3	$9\frac{5}{8}$	11	$4\frac{1}{4}-\frac{1}{16}$	4	2	12	6	4	$6\frac{3}{8}$	13	$7\frac{3}{4}$
3	$9\frac{3}{4}$	11	$4\frac{5}{8}-\frac{1}{16}$	4	$2\frac{1}{8}$	12	$6\frac{3}{8}$	4	$6\frac{1}{2}$	13	$8\frac{1}{8}$
3	$9\frac{7}{8}$	11	$5\frac{1}{16}$	4	$2\frac{1}{4}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$6\frac{5}{8}$	13	$8\frac{1}{2}$
3	10	11	$5\frac{3}{8}-\frac{1}{16}$	4	$2\frac{3}{8}$	12	$7\frac{1}{8}-\frac{1}{16}$	4	$6\frac{3}{4}$	13	$8\frac{7}{8}$
3	$10\frac{1}{8}$	11	$5\frac{3}{4}-\frac{1}{16}$	4	$2\frac{1}{2}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	$6\frac{7}{8}$	13	$9\frac{1}{4}-\frac{1}{16}$
3	$10\frac{1}{4}$	11	$6\frac{1}{8}-\frac{1}{16}$	4	$2\frac{5}{8}$	12	8	4	7	13	$9\frac{5}{8}-\frac{1}{16}$
3	$10\frac{3}{8}$	11	$6\frac{1}{2}-\frac{1}{16}$	4	$2\frac{3}{4}$	12	$8\frac{3}{8}$	4	$7\frac{1}{8}$	13	$10\frac{1}{16}$
3	$10\frac{1}{2}$	11	7	4	$2\frac{7}{8}$	12	$8\frac{3}{4}-\frac{1}{16}$	4	$7\frac{1}{4}$	13	$10\frac{1}{2}$
3	$10\frac{5}{8}$	11	$7\frac{3}{8}$	4	3	12	$9\frac{1}{8}-\frac{1}{16}$	4	$7\frac{3}{8}$	13	$10\frac{7}{8}$
3	$10\frac{3}{4}$	11	$7\frac{3}{4}-\frac{1}{16}$	4	$3\frac{1}{8}$	12	$9\frac{1}{2}-\frac{1}{16}$	4	$7\frac{1}{2}$	13	$11\frac{1}{4}-\frac{1}{16}$
3	$10\frac{7}{8}$	11	$8\frac{1}{8}-\frac{1}{16}$	4	$3\frac{1}{4}$	12	$9\frac{7}{8}-\frac{1}{16}$	4	$7\frac{5}{8}$	13	$11\frac{3}{8}-\frac{1}{16}$
3	11	11	$8\frac{1}{2}-\frac{1}{16}$	4	$3\frac{3}{8}$	12	$10\frac{1}{4}-\frac{1}{16}$	4	$7\frac{3}{4}$	14	$0\frac{1}{16}$
3	$11\frac{1}{8}$	11	9	4	$3\frac{1}{2}$	12	$10\frac{5}{8}-\frac{1}{16}$	4	$7\frac{7}{8}$	14	$0\frac{1}{2}$
3	$11\frac{1}{4}$	11	$9\frac{3}{8}$	4	$3\frac{5}{8}$	12	$11\frac{1}{16}$	4	8	14	$0\frac{7}{8}$
3	$11\frac{3}{8}$	11	$9\frac{3}{4}-\frac{1}{16}$	4	$3\frac{3}{4}$	12	$11\frac{1}{2}$	4	$8\frac{1}{8}$	14	$1\frac{1}{4}$
3	$11\frac{1}{2}$	11	$10\frac{1}{8}-\frac{1}{16}$	4	$3\frac{7}{8}$	12	$11\frac{7}{8}$	4	$8\frac{1}{4}$	14	$1\frac{5}{8}$
3	$11\frac{5}{8}$	11	$10\frac{1}{2}-\frac{1}{16}$	4	4	13	$0\frac{1}{4}-\frac{1}{16}$	4	$8\frac{3}{8}$	14	2
3	$11\frac{3}{4}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	$4\frac{1}{8}$	13	$0\frac{3}{8}-\frac{1}{16}$	4	$8\frac{1}{2}$	14	$2\frac{3}{8}$
3	$11\frac{7}{8}$	11	$11\frac{1}{4}-\frac{1}{16}$	4	$4\frac{1}{4}$	13	$1\frac{1}{16}$	4	$8\frac{5}{8}$	14	$2\frac{3}{4}-\frac{1}{16}$
4	0	11	$11\frac{5}{8}-\frac{1}{16}$	4	$4\frac{3}{8}$	13	$1\frac{1}{2}$	4	$8\frac{3}{4}$	14	$3\frac{1}{8}-\frac{1}{16}$
4	$0\frac{1}{8}$	12	$0\frac{1}{16}$	4	$4\frac{1}{2}$	13	$1\frac{7}{8}$	4	$8\frac{7}{8}$	14	$3\frac{1}{2}-\frac{1}{16}$
4	$0\frac{1}{4}$	12	$0\frac{1}{2}$	4	$4\frac{5}{8}$	13	$2\frac{1}{4}-\frac{1}{16}$	4	9	14	4
4	$0\frac{3}{8}$	12	$0\frac{7}{8}$	4	$4\frac{3}{4}$	13	$2\frac{5}{8}-\frac{1}{16}$	4	$9\frac{1}{8}$	14	$4\frac{3}{8}$
4	$0\frac{1}{2}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	$4\frac{7}{8}$	13	$3\frac{1}{16}$	4	$9\frac{1}{4}$	14	$4\frac{3}{4}-\frac{1}{16}$
4	$0\frac{5}{8}$	12	$1\frac{5}{8}-\frac{1}{16}$	4	5	13	$3\frac{3}{8}-\frac{1}{16}$	4	$9\frac{3}{8}$	14	$5\frac{1}{8}-\frac{1}{16}$
4	$0\frac{3}{4}$	12	$2\frac{1}{16}$	4	$5\frac{1}{8}$	13	$3\frac{3}{4}-\frac{1}{16}$	4	$9\frac{1}{2}$	14	$5\frac{1}{2}-\frac{1}{16}$
4	$0\frac{7}{8}$	12	$2\frac{1}{2}$	4	$5\frac{1}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$	4	$9\frac{5}{8}$	14	6
4	1	12	$2\frac{7}{8}$	4	$5\frac{3}{8}$	13	$4\frac{1}{2}-\frac{1}{16}$	4	$9\frac{3}{4}$	14	$6\frac{3}{8}$
4	$1\frac{1}{8}$	12	$3\frac{1}{4}-\frac{1}{16}$	4	$5\frac{1}{2}$	13	5	4	$9\frac{7}{8}$	14	$6\frac{3}{4}$
4	$1\frac{1}{4}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$5\frac{5}{8}$	13	$5\frac{3}{8}$	4	10	14	$7\frac{1}{8}$

ANGLE-IRON RINGS (FLANGE INSIDE). 207

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
4	$10\frac{1}{8}$	14	$7\frac{1}{2}$	5	5	16	$5\frac{1}{8}$	6	$1\frac{3}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$
4	$10\frac{1}{4}$	14	$7\frac{7}{8}$	5	$5\frac{1}{4}$	16	$5\frac{7}{8}$	6	2	18	$9\frac{3}{8}$
4	$10\frac{3}{8}$	14	$8\frac{1}{4}-\frac{1}{16}$	5	$5\frac{1}{2}$	16	$6\frac{5}{8}-\frac{1}{16}$	6	$2\frac{1}{4}$	18	$10\frac{1}{8}-\frac{1}{16}$
4	$10\frac{1}{2}$	14	$8\frac{5}{8}-\frac{1}{16}$	5	$5\frac{3}{4}$	16	$7\frac{1}{2}$	6	$2\frac{1}{2}$	18	11
4	$10\frac{5}{8}$	14	$9\frac{1}{8}$	5	6	16	$8\frac{1}{4}-\frac{1}{16}$	6	$2\frac{3}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$
4	$10\frac{3}{4}$	14	$9\frac{1}{2}$	5	$6\frac{1}{4}$	16	$9\frac{1}{8}$	6	3	19	$0\frac{1}{2}-\frac{1}{16}$
4	$10\frac{7}{8}$	14	$9\frac{7}{8}$	5	$6\frac{1}{2}$	16	$9\frac{7}{8}$	6	$3\frac{1}{4}$	19	$1\frac{1}{4}-\frac{1}{16}$
4	11	14	$10\frac{1}{4}$	5	$6\frac{3}{4}$	16	$10\frac{5}{8}$	6	$3\frac{1}{2}$	19	$2\frac{1}{8}$
4	$11\frac{1}{8}$	14	$10\frac{5}{8}-\frac{1}{16}$	5	7	16	$11\frac{3}{8}$	6	$3\frac{3}{4}$	19	$2\frac{7}{8}$
4	$11\frac{1}{4}$	14	$11\frac{1}{8}$	5	$7\frac{1}{4}$	17	$0\frac{1}{8}-\frac{1}{16}$	6	4	19	$3\frac{5}{8}-\frac{1}{16}$
4	$11\frac{3}{8}$	14	$11\frac{1}{2}$	5	$7\frac{1}{2}$	17	1	6	$4\frac{1}{4}$	19	$4\frac{1}{2}$
4	$11\frac{1}{2}$	14	$11\frac{7}{8}$	5	$7\frac{3}{4}$	17	$1\frac{3}{4}-\frac{1}{16}$	6	$4\frac{1}{2}$	19	$5\frac{1}{4}-\frac{1}{16}$
4	$11\frac{5}{8}$	15	$0\frac{1}{4}$	5	8	17	$2\frac{1}{2}-\frac{1}{16}$	6	$4\frac{3}{4}$	19	$6\frac{1}{16}$
4	$11\frac{3}{4}$	15	$0\frac{5}{8}$	5	$8\frac{1}{4}$	17	$3\frac{3}{8}$	6	5	19	$6\frac{3}{4}-\frac{1}{16}$
4	$11\frac{7}{8}$	15	1	5	$8\frac{1}{2}$	17	$4\frac{1}{8}$	6	$5\frac{1}{4}$	19	$7\frac{1}{2}-\frac{1}{16}$
5	0	15	$1\frac{3}{8}$	5	$8\frac{3}{4}$	17	$4\frac{7}{8}$	6	$5\frac{1}{2}$	19	$8\frac{3}{8}$
5	$0\frac{1}{4}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	9	17	$5\frac{5}{8}-\frac{1}{16}$	6	$5\frac{3}{4}$	19	$9\frac{1}{8}-\frac{1}{16}$
5	$0\frac{1}{2}$	15	3	5	$9\frac{1}{4}$	17	$6\frac{1}{2}$	6	6	19	10
5	$0\frac{3}{4}$	15	$3\frac{3}{4}-\frac{1}{16}$	5	$9\frac{1}{2}$	17	$7\frac{1}{4}$	6	$6\frac{1}{4}$	19	$10\frac{3}{4}-\frac{1}{16}$
5	1	15	$4\frac{1}{2}-\frac{1}{16}$	5	$9\frac{3}{4}$	17	$8\frac{1}{8}$	6	$6\frac{1}{2}$	19	$11\frac{1}{2}-\frac{1}{16}$
5	$1\frac{1}{4}$	15	$5\frac{3}{8}$	5	10	17	$8\frac{7}{8}$	6	$6\frac{3}{4}$	20	$0\frac{1}{4}-\frac{1}{16}$
5	$1\frac{1}{2}$	15	$6\frac{1}{8}$	5	$10\frac{1}{4}$	17	$9\frac{5}{8}$	6	7	20	$1\frac{1}{8}$
5	$1\frac{3}{4}$	15	$6\frac{7}{8}$	5	$10\frac{1}{2}$	17	$10\frac{3}{8}$	6	$7\frac{1}{4}$	20	$1\frac{7}{8}$
5	2	15	$7\frac{5}{8}-\frac{1}{16}$	5	$10\frac{3}{4}$	17	$11\frac{1}{8}-\frac{1}{16}$	6	$7\frac{1}{2}$	20	$2\frac{5}{8}-\frac{1}{16}$
5	$2\frac{1}{4}$	15	$8\frac{1}{2}$	5	11	18	0	6	$7\frac{3}{4}$	20	$3\frac{1}{2}$
5	$2\frac{1}{2}$	15	$9\frac{1}{4}-\frac{1}{16}$	5	$11\frac{1}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$	6	8	20	$4\frac{1}{4}-\frac{1}{16}$
5	$2\frac{3}{4}$	15	$10\frac{1}{16}$	5	$11\frac{1}{2}$	18	$1\frac{1}{2}-\frac{1}{16}$	6	$8\frac{1}{4}$	20	$5\frac{1}{16}$
5	3	15	$10\frac{7}{8}$	5	$11\frac{3}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$	6	$8\frac{1}{2}$	20	$5\frac{3}{4}-\frac{1}{16}$
5	$3\frac{1}{4}$	15	$11\frac{5}{8}$	6	0	18	$3\frac{1}{8}$	6	$8\frac{3}{4}$	20	$6\frac{1}{2}-\frac{1}{16}$
5	$3\frac{1}{2}$	16	$0\frac{3}{8}$	6	$0\frac{1}{4}$	18	$3\frac{7}{8}$	6	9	20	$7\frac{3}{8}$
5	$3\frac{3}{4}$	16	$0\frac{1}{8}-\frac{1}{16}$	6	$0\frac{1}{2}$	18	$4\frac{5}{8}-\frac{1}{16}$	6	$9\frac{1}{4}$	20	$8\frac{1}{8}-\frac{1}{16}$
5	4	16	2	6	$0\frac{3}{4}$	18	$5\frac{1}{2}$	6	$9\frac{1}{2}$	20	9
5	$4\frac{1}{4}$	16	$2\frac{3}{4}-\frac{1}{16}$	6	1	18	$6\frac{1}{4}-\frac{1}{16}$	6	$9\frac{3}{4}$	20	$9\frac{3}{4}$
5	$4\frac{1}{2}$	16	$3\frac{1}{2}-\frac{1}{16}$	6	$1\frac{1}{4}$	18	$7\frac{1}{16}$	6	10	20	$10\frac{1}{16}$
5	$4\frac{3}{4}$	16	$4\frac{3}{8}$	6	$1\frac{1}{2}$	18	$7\frac{3}{4}-\frac{1}{16}$	6	$10\frac{1}{4}$	20	$11\frac{1}{4}-\frac{1}{16}$

# 208      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	$10\frac{1}{2}$	21	$0\frac{1}{8}$	7	$7\frac{1}{4}$	23	$3\frac{1}{2}-\frac{1}{16}$	8	4	25	$7\frac{1}{8}$
6	$10\frac{3}{4}$	21	$0\frac{7}{8}$	7	$7\frac{1}{2}$	23	$4\frac{3}{8}$	8	$4\frac{1}{4}$	25	$7\frac{7}{8}$
6	11	21	$1\frac{5}{8}-\frac{1}{16}$	7	$7\frac{3}{4}$	23	$5\frac{1}{8}-\frac{1}{16}$	8	$4\frac{1}{2}$	25	$8\frac{5}{8}-\frac{1}{16}$
6	$11\frac{1}{4}$	21	$2\frac{1}{2}$	7	8	23	6	8	$4\frac{3}{4}$	25	$9\frac{3}{8}-\frac{1}{16}$
6	$11\frac{1}{2}$	21	$3\frac{1}{4}$	7	$8\frac{1}{4}$	23	$6\frac{3}{4}$	8	5	25	$10\frac{1}{8}-\frac{1}{16}$
6	$11\frac{3}{4}$	21	4	7	$8\frac{1}{2}$	23	$7\frac{1}{2}$	8	$5\frac{1}{4}$	25	11
7	0	21	$4\frac{3}{4}-\frac{1}{16}$	7	$8\frac{3}{4}$	23	$8\frac{1}{4}-\frac{1}{16}$	8	$5\frac{1}{2}$	25	$11\frac{3}{4}-\frac{1}{16}$
7	$0\frac{1}{4}$	21	$5\frac{1}{2}-\frac{1}{16}$	7	9	23	$9\frac{1}{16}$	8	$5\frac{3}{4}$	26	$0\frac{7}{8}-\frac{1}{16}$
7	$0\frac{1}{2}$	21	$6\frac{3}{8}$	7	$9\frac{1}{4}$	23	$9\frac{7}{8}$	8	6	26	$1\frac{3}{8}$
7	$0\frac{3}{4}$	21	$7\frac{1}{8}-\frac{1}{16}$	7	$9\frac{1}{2}$	23	$10\frac{5}{8}-\frac{1}{16}$	8	$6\frac{1}{4}$	26	$2\frac{1}{8}-\frac{1}{16}$
7	1	21	8	7	$9\frac{3}{4}$	23	$11\frac{3}{8}-\frac{1}{16}$	8	$6\frac{1}{2}$	26	$2\frac{7}{8}-\frac{1}{16}$
7	$1\frac{1}{4}$	21	$8\frac{3}{4}$	7	10	24	$0\frac{1}{8}-\frac{1}{16}$	8	$6\frac{3}{4}$	26	$3\frac{5}{8}-\frac{1}{16}$
7	$1\frac{1}{2}$	21	$9\frac{1}{2}$	7	$10\frac{1}{4}$	24	1	8	7	26	$4\frac{1}{2}$
7	$1\frac{3}{4}$	21	$10\frac{1}{4}-\frac{1}{16}$	7	$10\frac{1}{2}$	24	$1\frac{3}{4}-\frac{1}{16}$	8	$7\frac{1}{4}$	26	$5\frac{1}{4}-\frac{1}{16}$
7	2	21	$11\frac{1}{8}$	7	$10\frac{3}{4}$	24	$2\frac{1}{2}-\frac{1}{16}$	8	$7\frac{1}{2}$	26	$6\frac{1}{16}$
7	$2\frac{1}{4}$	21	$11\frac{7}{8}$	7	11	24	$3\frac{3}{8}$	8	$7\frac{3}{4}$	26	$6\frac{3}{4}-\frac{1}{16}$
7	$2\frac{1}{2}$	22	$0\frac{5}{8}-\frac{1}{16}$	7	$11\frac{1}{4}$	24	$4\frac{1}{8}-\frac{1}{16}$	8	8	26	$7\frac{5}{8}$
7	$2\frac{3}{4}$	22	$1\frac{1}{2}$	7	$11\frac{1}{2}$	24	5	8	$8\frac{1}{4}$	26	$8\frac{3}{8}-\frac{1}{16}$
7	3	22	$2\frac{1}{4}$	7	$11\frac{3}{4}$	24	$5\frac{3}{4}$	8	$8\frac{1}{2}$	26	$9\frac{1}{8}-\frac{1}{16}$
7	$3\frac{1}{4}$	22	3	8	0	24	$6\frac{1}{2}$	8	$8\frac{3}{4}$	26	10
7	$3\frac{1}{2}$	22	$3\frac{3}{4}-\frac{1}{16}$	8	$0\frac{1}{4}$	24	$7\frac{1}{4}-\frac{1}{16}$	8	9	26	$10\frac{3}{4}$
7	$3\frac{3}{4}$	22	$4\frac{1}{2}-\frac{1}{16}$	8	$0\frac{1}{2}$	24	$8\frac{1}{8}$	8	$9\frac{1}{4}$	26	$11\frac{1}{2}-\frac{1}{16}$
7	4	22	$5\frac{3}{8}$	8	$0\frac{3}{4}$	24	$8\frac{7}{8}$	8	$9\frac{1}{2}$	27	$0\frac{1}{4}-\frac{1}{16}$
7	$4\frac{1}{4}$	22	$6\frac{1}{8}-\frac{1}{16}$	8	1	24	$9\frac{5}{8}-\frac{1}{16}$	8	$9\frac{3}{4}$	27	$1\frac{1}{16}$
7	$4\frac{1}{2}$	22	7	8	$1\frac{1}{4}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	10	27	$1\frac{7}{8}-\frac{1}{16}$
7	$4\frac{3}{4}$	22	$7\frac{3}{4}$	8	$1\frac{1}{2}$	24	$11\frac{1}{8}-\frac{1}{16}$	8	$10\frac{1}{4}$	27	$2\frac{5}{8}-\frac{1}{16}$
7	5	22	$8\frac{1}{2}$	8	$1\frac{3}{4}$	25	0	8	$10\frac{1}{2}$	27	$3\frac{1}{2}$
7	$5\frac{1}{4}$	22	$9\frac{1}{4}-\frac{1}{16}$	8	2	25	$0\frac{3}{4}-\frac{1}{16}$	8	$10\frac{3}{4}$	27	$4\frac{1}{4}$
7	$5\frac{1}{2}$	22	$10\frac{1}{8}$	8	$2\frac{1}{4}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	11	27	$5\frac{1}{16}$
7	$5\frac{3}{4}$	22	$10\frac{7}{8}$	8	$2\frac{1}{2}$	25	$2\frac{3}{8}$	8	$11\frac{1}{4}$	27	$5\frac{3}{4}-\frac{1}{16}$
7	6	22	$11\frac{5}{8}-\frac{1}{16}$	8	$2\frac{3}{4}$	25	$3\frac{1}{8}-\frac{1}{16}$	8	$11\frac{1}{2}$	27	$6\frac{5}{8}$
7	$6\frac{1}{4}$	23	$0\frac{1}{2}$	8	3	25	$3\frac{7}{8}-\frac{1}{16}$	8	$11\frac{3}{4}$	27	$7\frac{3}{8}-\frac{1}{16}$
7	$6\frac{1}{2}$	23	$1\frac{1}{4}$	8	$3\frac{1}{4}$	25	$4\frac{5}{8}-\frac{1}{16}$	9	0	27	$8\frac{1}{8}-\frac{1}{16}$
7	$6\frac{3}{4}$	23	2	8	$3\frac{1}{2}$	25	$5\frac{1}{2}$	9	$0\frac{1}{4}$	27	9
7	7	23	$2\frac{3}{4}-\frac{1}{16}$	8	$3\frac{3}{4}$	25	$6\frac{1}{4}-\frac{1}{16}$	9	$0\frac{1}{2}$	27	$9\frac{3}{4}$

ANGLE-IRON RINGS (FLANGE INSIDE). 209

DIAGONAL MEASUREMENT AT THE ROOT,  $\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	$0\frac{3}{4}$	27	$10\frac{1}{2}$	9	$9\frac{1}{2}$	30	2	10	$6\frac{1}{4}$	32	$5\frac{1}{2}$
9	1	27	$11\frac{1}{4}-\frac{1}{16}$	9	$9\frac{3}{4}$	30	$2\frac{3}{4}-\frac{1}{16}$	10	$6\frac{1}{2}$	32	$6\frac{1}{4}-\frac{1}{16}$
9	$1\frac{1}{4}$	28	$0\frac{1}{8}$	9	10	30	$3\frac{5}{8}$	10	$6\frac{3}{4}$	32	$7\frac{1}{8}$
9	$1\frac{1}{2}$	28	$0\frac{7}{8}$	9	$10\frac{1}{4}$	30	$4\frac{3}{8}$	10	7	32	$7\frac{7}{8}$
9	$1\frac{3}{4}$	28	$1\frac{5}{8}-\frac{1}{16}$	9	$10\frac{1}{2}$	30	$5\frac{1}{8}-\frac{1}{16}$	10	$7\frac{1}{4}$	32	$8\frac{5}{8}-\frac{1}{16}$
9	2	28	$2\frac{1}{2}$	9	$10\frac{3}{4}$	30	6	10	$7\frac{1}{2}$	32	$9\frac{3}{8}-\frac{1}{16}$
9	$2\frac{1}{4}$	28	$3\frac{1}{4}$	9	11	30	$6\frac{3}{4}$	10	$7\frac{3}{4}$	32	$10\frac{1}{4}$
9	$2\frac{1}{2}$	28	4	9	$11\frac{1}{4}$	30	$7\frac{1}{2}$	10	8	32	11
9	$2\frac{3}{4}$	28	$4\frac{7}{8}$	9	$11\frac{1}{2}$	30	$8\frac{1}{4}-\frac{1}{16}$	10	$8\frac{1}{4}$	32	$11\frac{3}{4}-\frac{1}{16}$
9	3	28	$5\frac{5}{8}$	9	$11\frac{3}{4}$	30	$9\frac{1}{8}$	10	$8\frac{1}{2}$	33	$0\frac{5}{8}$
9	$3\frac{1}{4}$	28	$6\frac{3}{8}$	10	0	30	$9\frac{7}{8}$	10	$8\frac{3}{4}$	33	$1\frac{3}{8}$
9	$3\frac{1}{2}$	28	$7\frac{1}{8}-\frac{1}{16}$	10	$0\frac{1}{4}$	30	$10\frac{5}{8}-\frac{1}{16}$	10	9	33	$2\frac{1}{8}-\frac{1}{16}$
9	$3\frac{3}{4}$	28	8	10	$0\frac{1}{2}$	30	$11\frac{3}{8}-\frac{1}{16}$	10	$9\frac{1}{4}$	33	3
9	4	28	$8\frac{3}{4}$	10	$0\frac{3}{4}$	31	$0\frac{1}{4}$	10	$9\frac{1}{2}$	33	$3\frac{3}{4}$
9	$4\frac{1}{4}$	28	$9\frac{1}{2}$	10	1	31	1	10	$9\frac{3}{4}$	33	$4\frac{1}{2}$
9	$4\frac{1}{2}$	28	$10\frac{1}{4}-\frac{1}{16}$	10	$1\frac{1}{4}$	31	$1\frac{3}{4}-\frac{1}{16}$	10	10	33	$5\frac{1}{4}-\frac{1}{16}$
9	$4\frac{3}{4}$	28	$11\frac{1}{8}$	10	$1\frac{1}{2}$	31	$2\frac{5}{8}$	10	$10\frac{1}{4}$	33	$6\frac{1}{16}$
9	5	28	$11\frac{7}{8}$	10	$1\frac{3}{4}$	31	$3\frac{3}{8}$	10	$10\frac{1}{2}$	33	$6\frac{7}{8}$
9	$5\frac{1}{4}$	29	$0\frac{5}{8}-\frac{1}{16}$	10	2	31	$4\frac{1}{8}$	10	$10\frac{3}{4}$	33	$7\frac{5}{8}-\frac{1}{16}$
9	$5\frac{1}{2}$	29	$1\frac{1}{2}$	10	$2\frac{1}{4}$	31	5	10	11	33	$8\frac{3}{8}-\frac{1}{16}$
9	$5\frac{3}{4}$	29	$2\frac{1}{4}$	10	$2\frac{1}{2}$	31	$5\frac{3}{4}$	10	$11\frac{1}{4}$	33	$9\frac{1}{4}$
9	6	29	3	10	$2\frac{3}{4}$	31	$6\frac{1}{2}$	10	$11\frac{1}{2}$	33	10
9	$6\frac{1}{4}$	29	$3\frac{3}{4}-\frac{1}{16}$	10	3	31	$7\frac{1}{4}-\frac{1}{16}$	10	$11\frac{3}{4}$	33	$10\frac{3}{4}-\frac{1}{16}$
9	$6\frac{1}{2}$	29	$4\frac{5}{8}$	10	$3\frac{1}{4}$	31	$8\frac{1}{8}$	11	0	33	$11\frac{1}{2}-\frac{1}{16}$
9	$6\frac{3}{4}$	29	$5\frac{3}{8}$	10	$3\frac{1}{2}$	31	$8\frac{7}{8}$	11	$0\frac{1}{4}$	34	$0\frac{3}{8}$
9	7	29	$6\frac{1}{8}-\frac{1}{16}$	10	$3\frac{3}{4}$	31	$9\frac{5}{8}-\frac{1}{16}$	11	$0\frac{1}{2}$	34	$1\frac{1}{8}-\frac{1}{16}$
9	$7\frac{1}{4}$	29	7	10	4	31	$10\frac{3}{8}-\frac{1}{16}$	11	$0\frac{3}{4}$	34	$1\frac{7}{8}-\frac{1}{16}$
9	$7\frac{1}{2}$	29	$7\frac{3}{4}$	10	$4\frac{1}{4}$	31	$11\frac{1}{4}$	11	1	34	$2\frac{3}{4}$
9	$7\frac{3}{4}$	29	$8\frac{1}{2}-\frac{1}{16}$	10	$4\frac{1}{2}$	32	0	11	$1\frac{1}{4}$	34	$3\frac{1}{2}$
9	8	29	$9\frac{1}{4}-\frac{1}{16}$	10	$4\frac{3}{4}$	32	$0\frac{3}{4}-\frac{1}{16}$	11	$1\frac{1}{2}$	34	$4\frac{1}{4}-\frac{1}{16}$
9	$8\frac{1}{4}$	29	$10\frac{1}{8}$	10	5	32	$1\frac{5}{8}$	11	$1\frac{3}{4}$	34	$5\frac{1}{16}$
9	$8\frac{1}{2}$	29	$10\frac{7}{8}$	10	$5\frac{1}{4}$	32	$2\frac{3}{8}$	11	2	34	$5\frac{7}{8}$
9	$8\frac{3}{4}$	29	$11\frac{5}{8}$	10	$5\frac{1}{2}$	32	$3\frac{1}{8}-\frac{1}{16}$	11	$2\frac{1}{4}$	34	$6\frac{5}{8}-\frac{1}{16}$
9	9	30	$0\frac{3}{8}-\frac{1}{16}$	10	$5\frac{3}{4}$	32	$3\frac{7}{8}$	11	$2\frac{1}{2}$	34	$7\frac{3}{8}-\frac{1}{16}$
9	$9\frac{1}{4}$	30	$1\frac{1}{4}$	10	6	32	$4\frac{3}{4}$	11	$2\frac{3}{4}$	34	$8\frac{1}{4}$

210 DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	3	34	9	11	$10\frac{1}{4}$	36	$7\frac{3}{4}-\frac{1}{16}$	12	$5\frac{1}{2}$	38	$6\frac{5}{8}$
11	$3\frac{1}{4}$	34	$9\frac{3}{4}-\frac{1}{16}$	11	$10\frac{1}{2}$	36	$8\frac{1}{2}-\frac{1}{16}$	12	$5\frac{3}{4}$	38	$7\frac{3}{8}$
11	$3\frac{1}{2}$	34	$10\frac{1}{2}-\frac{1}{16}$	11	$10\frac{3}{4}$	36	$9\frac{3}{8}$	12	6	38	$8\frac{1}{8}$
11	$3\frac{3}{4}$	34	$11\frac{3}{8}$	11	11	36	$10\frac{1}{8}$	12	$6\frac{1}{4}$	38	$8\frac{7}{8}-\frac{1}{16}$
11	4	35	$0\frac{1}{8}$	11	$11\frac{1}{4}$	36	$10\frac{7}{8}-\frac{1}{16}$	12	$6\frac{1}{2}$	38	$9\frac{3}{4}$
11	$4\frac{1}{4}$	35	$0\frac{7}{8}-\frac{1}{16}$	11	$11\frac{1}{2}$	36	$11\frac{3}{4}$	12	$6\frac{3}{4}$	38	$10\frac{1}{2}$
11	$4\frac{1}{2}$	35	$1\frac{3}{4}$	11	$11\frac{3}{4}$	37	$0\frac{1}{2}$	12	7	38	$11\frac{1}{4}$
11	$4\frac{3}{4}$	35	$2\frac{1}{2}$	12	0	37	$1\frac{1}{4}-\frac{1}{16}$	12	$7\frac{1}{4}$	39	$0\frac{1}{16}$
11	5	35	$3\frac{1}{4}-\frac{1}{16}$	12	$0\frac{1}{4}$	37	$2\frac{1}{16}$	12	$7\frac{1}{2}$	39	$0\frac{7}{8}$
11	$5\frac{1}{4}$	35	$4\frac{1}{16}$	12	$0\frac{1}{2}$	37	$2\frac{1}{2}$	12	$7\frac{3}{4}$	39	$1\frac{5}{8}$
11	$5\frac{1}{2}$	35	$4\frac{7}{8}$	12	$0\frac{3}{4}$	37	$3\frac{5}{8}$	12	8	39	$2\frac{3}{8}-\frac{1}{16}$
11	$5\frac{3}{4}$	35	$5\frac{5}{8}$	12	1	37	$4\frac{3}{8}-\frac{1}{16}$	12	$8\frac{1}{4}$	39	$3\frac{1}{4}$
11	6	35	$6\frac{3}{8}-\frac{1}{16}$	12	$1\frac{1}{4}$	37	$5\frac{1}{4}$	12	$8\frac{1}{2}$	39	4
11	$6\frac{1}{4}$	35	$7\frac{1}{4}$	12	$1\frac{1}{2}$	37	6	12	$8\frac{3}{4}$	39	$4\frac{3}{4}-\frac{1}{16}$
11	$6\frac{1}{2}$	35	8	12	$1\frac{3}{4}$	37	$6\frac{3}{4}$	12	9	39	$5\frac{1}{2}-\frac{1}{16}$
11	$6\frac{3}{4}$	35	$8\frac{3}{4}-\frac{1}{16}$	12	2	37	$7\frac{1}{2}-\frac{1}{16}$	12	$9\frac{1}{4}$	39	$6\frac{3}{8}$
11	7	35	$9\frac{1}{2}-\frac{1}{16}$	12	$2\frac{1}{4}$	37	$8\frac{3}{8}$	12	$9\frac{1}{2}$	39	$7\frac{1}{8}$
11	$7\frac{1}{4}$	35	$10\frac{3}{8}$	12	$2\frac{1}{2}$	37	$9\frac{1}{8}$	12	$9\frac{3}{4}$	39	$7\frac{7}{8}-\frac{1}{16}$
11	$7\frac{1}{2}$	35	$11\frac{1}{8}$	12	$2\frac{3}{4}$	37	$9\frac{7}{8}$	12	10	39	$8\frac{5}{8}-\frac{1}{16}$
11	$7\frac{3}{4}$	35	$11\frac{7}{8}-\frac{1}{16}$	12	3	37	$10\frac{3}{4}$	12	$10\frac{1}{4}$	39	$9\frac{1}{2}$
11	8	36	$0\frac{5}{8}-\frac{1}{16}$	12	$3\frac{1}{4}$	37	$11\frac{1}{2}$	12	$10\frac{1}{2}$	39	$10\frac{1}{4}-\frac{1}{16}$
11	$8\frac{1}{4}$	36	$1\frac{1}{2}$	12	$3\frac{1}{2}$	38	$0\frac{1}{4}-\frac{1}{16}$	12	$10\frac{3}{4}$	39	$11\frac{1}{16}$
11	$8\frac{1}{2}$	36	$2\frac{1}{4}-\frac{1}{16}$	12	$3\frac{3}{4}$	38	$1\frac{1}{8}$	12	11	39	$11\frac{3}{4}-\frac{1}{16}$
11	$8\frac{3}{4}$	36	$3\frac{1}{16}$	12	4	38	$1\frac{7}{8}$	12	$11\frac{1}{4}$	40	$0\frac{5}{8}$
11	9	36	$3\frac{7}{8}$	12	$4\frac{1}{4}$	38	$2\frac{5}{8}$	12	$11\frac{1}{2}$	40	$1\frac{3}{8}-\frac{1}{16}$
11	$9\frac{1}{4}$	36	$4\frac{5}{8}$	12	$4\frac{1}{2}$	38	$3\frac{3}{8}$	12	$11\frac{3}{4}$	40	$2\frac{1}{8}-\frac{1}{16}$
11	$9\frac{1}{2}$	36	$5\frac{3}{8}-\frac{1}{16}$	12	$4\frac{3}{4}$	38	$4\frac{1}{8}-\frac{1}{16}$	13	0	40	$2\frac{7}{8}-\frac{1}{16}$
11	$9\frac{3}{4}$	36	$6\frac{1}{4}$	12	5	38	5				
11	10	36	7	12	$5\frac{1}{4}$	38	$5\frac{3}{4}-\frac{1}{16}$				

ANGLE-IRON RINGS (FLANGE INSIDE). 211

DIAGONAL MEASUREMENT AT THE ROOT, 1¼-INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	5¼- <sup>1</sup> / <sub>16</sub>	1	8¾	4	9¼- <sup>1</sup> / <sub>16</sub>	2	5½	7	0¾- <sup>1</sup> / <sub>16</sub>
1	0¼	2	6 <sup>5</sup> / <sub>8</sub>	1	9	4	10 <sup>1</sup> / <sub>16</sub>	2	5¾	7	1½- <sup>1</sup> / <sub>16</sub>
1	0½	2	7 <sup>3</sup> / <sub>8</sub>	1	9¼	4	10 <sup>7</sup> / <sub>8</sub>	2	6	7	2 <sup>3</sup> / <sub>8</sub>
1	0¾	2	8 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	1	9½	4	11 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	6¼	7	3 <sup>1</sup> / <sub>8</sub>
1	1	2	8 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	1	9¾	5	0 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	6½	7	3 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
1	1¼	2	9¾	1	10	5	1¼	2	6¾	7	4¾
1	1½	2	10½- <sup>1</sup> / <sub>16</sub>	1	10¼	5	2	2	7	7	5½
1	1¾	2	11¼- <sup>1</sup> / <sub>16</sub>	1	10½	5	2¾- <sup>1</sup> / <sub>16</sub>	2	7¼	7	6¼- <sup>1</sup> / <sub>16</sub>
1	2	3	0 <sup>1</sup> / <sub>16</sub>	1	10¾	5	3½- <sup>1</sup> / <sub>16</sub>	2	7½	7	7 <sup>1</sup> / <sub>16</sub>
1	2¼	3	0 <sup>7</sup> / <sub>8</sub>	1	11	5	4 <sup>3</sup> / <sub>8</sub>	2	7¾	7	7 <sup>7</sup> / <sub>8</sub>
1	2½	3	1 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	1	11¼	5	5 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	8	7	8 <sup>3</sup> / <sub>8</sub>
1	2¾	3	2 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	1	11½	5	5 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	8¼	7	9 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
1	3	3	3¼	1	11¾	5	6¾	2	8½	7	10¼
1	3¼	3	4 <sup>1</sup> / <sub>16</sub>	2	0	5	7½	2	8¾	7	11
1	3½	3	4¾- <sup>1</sup> / <sub>16</sub>	2	0¼	5	8¼- <sup>1</sup> / <sub>16</sub>	2	9	7	11¾- <sup>1</sup> / <sub>16</sub>
1	3¾	3	5½- <sup>1</sup> / <sub>16</sub>	2	0½	5	9 <sup>1</sup> / <sub>16</sub>	2	9¼	8	0½- <sup>1</sup> / <sub>16</sub>
1	4	3	6 <sup>3</sup> / <sub>8</sub>	2	0¾	5	9 <sup>7</sup> / <sub>8</sub>	2	9½	8	1 <sup>3</sup> / <sub>8</sub>
1	4¼	3	7 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	1	5	10 <sup>5</sup> / <sub>8</sub>	2	9¾	8	2 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
1	4½	3	7 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	1¼	5	11 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	10	8	3
1	4¾	3	8¾	2	1½	6	0¼	2	10¼	8	3¾
1	5	3	9½- <sup>1</sup> / <sub>16</sub>	2	1¾	6	1	2	10½	8	4½
1	5¼	3	10¼- <sup>1</sup> / <sub>16</sub>	2	2	6	1¾- <sup>1</sup> / <sub>16</sub>	2	10¾	8	5¼- <sup>1</sup> / <sub>16</sub>
1	5½	3	11 <sup>1</sup> / <sub>16</sub>	2	2¼	6	2½- <sup>1</sup> / <sub>16</sub>	2	11	8	6 <sup>1</sup> / <sub>16</sub>
1	5¾	3	11 <sup>7</sup> / <sub>8</sub>	2	2½	6	3 <sup>3</sup> / <sub>8</sub>	2	11¼	8	6 <sup>7</sup> / <sub>8</sub>
1	6	4	0 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	2¾	6	4 <sup>1</sup> / <sub>8</sub>	2	11½	8	7 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
1	6¼	4	1 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	3	6	4 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	11¾	8	8½
1	6½	4	2¼	2	3¼	6	5¾	3	0	8	9¼
1	6¾	4	3 <sup>1</sup> / <sub>16</sub>	2	3½	6	6½	3	0¼	8	10
1	7	4	3¾- <sup>1</sup> / <sub>16</sub>	2	3¾	6	7¼- <sup>1</sup> / <sub>16</sub>	3	0½	8	10¾- <sup>1</sup> / <sub>16</sub>
1	7¼	4	4½- <sup>1</sup> / <sub>16</sub>	2	4	6	8 <sup>1</sup> / <sub>8</sub>	3	0¾	8	11 <sup>5</sup> / <sub>8</sub>
1	7½	4	5 <sup>3</sup> / <sub>8</sub>	2	4¼	6	8 <sup>7</sup> / <sub>8</sub>	3	1	9	0 <sup>3</sup> / <sub>8</sub>
1	7¾	4	6 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	4½	6	9 <sup>5</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	3	1¼	9	1 <sup>1</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>
1	8	4	6 <sup>7</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	2	4¾	6	10 <sup>3</sup> / <sub>8</sub> - <sup>1</sup> / <sub>16</sub>	3	1½	9	2
1	8¼	4	7¾	2	5	6	11¼	3	1¾	9	2¾
1	8½	4	8½	2	5¼	7	0	3	2	9	3½

# 212      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$2\frac{1}{4}$	9	$4\frac{1}{4}-\frac{1}{16}$	3	11	11	$7\frac{3}{4}-\frac{1}{16}$	4	$7\frac{3}{4}$	13	$11\frac{1}{4}-\frac{1}{16}$
3	$2\frac{1}{2}$	9	$5\frac{1}{16}$	3	$11\frac{1}{4}$	11	$8\frac{1}{2}-\frac{1}{16}$	4	8	14	$0\frac{1}{16}$
3	$2\frac{3}{4}$	9	$5\frac{7}{8}$	3	$11\frac{1}{2}$	11	$9\frac{3}{8}$	4	$8\frac{1}{4}$	14	$0\frac{7}{8}$
3	3	9	$6\frac{5}{8}-\frac{1}{16}$	3	$11\frac{3}{4}$	11	$10\frac{1}{8}-\frac{1}{16}$	4	$8\frac{1}{2}$	14	$1\frac{5}{8}$
3	$3\frac{1}{4}$	9	$7\frac{3}{8}-\frac{1}{16}$	4	0	11	$10\frac{7}{8}-\frac{1}{16}$	4	$8\frac{3}{4}$	14	$2\frac{3}{8}$
3	$3\frac{1}{2}$	9	$8\frac{1}{8}-\frac{1}{16}$	4	$0\frac{1}{4}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	9	14	$3\frac{1}{8}-\frac{1}{16}$
3	$3\frac{3}{4}$	9	9	4	$0\frac{1}{2}$	12	$0\frac{1}{2}$	4	$9\frac{1}{4}$	14	4
3	4	9	$9\frac{3}{4}-\frac{1}{16}$	4	$0\frac{3}{4}$	12	$1\frac{1}{4}-\frac{1}{16}$	4	$9\frac{1}{2}$	14	$4\frac{3}{4}-\frac{1}{16}$
3	$4\frac{1}{4}$	9	$10\frac{1}{2}-\frac{1}{16}$	4	1	12	$2\frac{1}{16}$	4	$9\frac{3}{4}$	14	$5\frac{1}{2}-\frac{1}{16}$
3	$4\frac{1}{2}$	9	$11\frac{3}{8}$	4	$1\frac{1}{4}$	12	$2\frac{7}{8}$	4	10	14	$6\frac{3}{8}$
3	$4\frac{3}{4}$	10	$0\frac{1}{8}-\frac{1}{16}$	4	$1\frac{1}{2}$	12	$3\frac{5}{8}-\frac{1}{16}$	4	$10\frac{1}{4}$	14	$7\frac{1}{8}$
3	5	10	1	4	$1\frac{3}{4}$	12	$4\frac{3}{8}-\frac{1}{16}$	4	$10\frac{1}{2}$	14	$7\frac{7}{8}$
3	$5\frac{1}{4}$	10	$1\frac{3}{4}$	4	2	12	$5\frac{1}{8}-\frac{1}{16}$	4	$10\frac{3}{4}$	14	$8\frac{3}{8}-\frac{1}{16}$
3	$5\frac{1}{2}$	10	$2\frac{1}{2}$	4	$2\frac{1}{4}$	12	6	4	11	14	$9\frac{1}{2}$
3	$5\frac{3}{4}$	10	$3\frac{1}{4}-\frac{1}{16}$	4	$2\frac{1}{2}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$11\frac{1}{4}$	14	$10\frac{1}{4}$
3	6	10	$4\frac{1}{8}$	4	$2\frac{3}{4}$	12	$7\frac{1}{2}-\frac{1}{16}$	4	$11\frac{1}{2}$	14	$11\frac{1}{8}$
3	$6\frac{1}{4}$	10	$4\frac{7}{8}$	4	3	12	$8\frac{3}{8}$	4	$11\frac{3}{4}$	14	$11\frac{7}{8}$
3	$6\frac{1}{2}$	10	$5\frac{5}{8}-\frac{1}{16}$	4	$3\frac{1}{4}$	12	$9\frac{1}{8}-\frac{1}{16}$	5	0	15	$0\frac{5}{8}$
3	$6\frac{3}{4}$	10	$6\frac{3}{8}-\frac{1}{16}$	4	$3\frac{1}{2}$	12	$9\frac{7}{8}-\frac{1}{16}$	5	$0\frac{1}{4}$	15	$1\frac{3}{8}$
3	7	10	$7\frac{1}{8}-\frac{1}{16}$	4	$3\frac{3}{4}$	12	$10\frac{5}{8}-\frac{1}{16}$	5	$0\frac{1}{2}$	15	$2\frac{1}{8}-\frac{1}{16}$
3	$7\frac{1}{4}$	10	8	4	4	12	$11\frac{1}{2}$	5	$0\frac{3}{4}$	15	3
3	$7\frac{1}{2}$	10	$8\frac{3}{4}-\frac{1}{16}$	4	$4\frac{1}{4}$	13	$0\frac{1}{4}-\frac{1}{16}$	5	1	15	$3\frac{3}{4}-\frac{1}{16}$
3	$7\frac{3}{4}$	10	$9\frac{5}{8}$	4	$4\frac{1}{2}$	13	$1\frac{1}{16}$	5	$1\frac{1}{4}$	15	$4\frac{1}{2}-\frac{1}{16}$
3	8	10	$10\frac{3}{8}$	4	$4\frac{3}{4}$	13	$1\frac{7}{8}$	5	$1\frac{1}{2}$	15	$5\frac{3}{8}$
3	$8\frac{1}{4}$	10	$11\frac{1}{8}-\frac{1}{16}$	4	5	13	$2\frac{5}{8}-\frac{1}{16}$	5	$1\frac{3}{4}$	15	$6\frac{1}{8}$
3	$8\frac{1}{2}$	10	$11\frac{7}{8}-\frac{1}{16}$	4	$5\frac{1}{4}$	13	$3\frac{3}{8}-\frac{1}{16}$	5	2	15	$6\frac{7}{8}$
3	$8\frac{3}{4}$	11	$0\frac{5}{8}-\frac{1}{16}$	4	$5\frac{1}{2}$	13	$4\frac{1}{8}-\frac{1}{16}$	5	$2\frac{1}{4}$	15	$7\frac{5}{8}-\frac{1}{16}$
3	9	11	$1\frac{1}{2}$	4	$5\frac{3}{4}$	13	5	5	$2\frac{1}{2}$	15	$8\frac{1}{2}$
3	$9\frac{1}{4}$	11	$2\frac{1}{4}-\frac{1}{16}$	4	6	13	$5\frac{3}{4}-\frac{1}{16}$	5	$2\frac{3}{4}$	15	$9\frac{1}{4}-\frac{1}{16}$
3	$9\frac{1}{2}$	11	$3\frac{1}{16}$	4	$6\frac{1}{4}$	13	$6\frac{1}{2}-\frac{1}{16}$	5	3	15	$10\frac{1}{16}$
3	$9\frac{3}{4}$	11	$3\frac{7}{8}$	4	$6\frac{1}{2}$	13	$7\frac{3}{8}$	5	$3\frac{1}{4}$	15	$10\frac{7}{8}$
3	10	11	$4\frac{5}{8}-\frac{1}{16}$	4	$6\frac{3}{4}$	13	$8\frac{1}{8}$	5	$3\frac{1}{2}$	15	$11\frac{5}{8}$
3	$10\frac{1}{4}$	11	$5\frac{3}{8}-\frac{1}{16}$	4	7	13	$8\frac{7}{8}$	5	$3\frac{3}{4}$	16	$0\frac{3}{8}$
3	$10\frac{1}{2}$	11	$6\frac{1}{8}-\frac{1}{16}$	4	$7\frac{1}{4}$	13	$9\frac{5}{8}-\frac{1}{16}$	5	4	16	$1\frac{1}{8}-\frac{1}{16}$
3	$10\frac{3}{4}$	11	7	4	$7\frac{1}{2}$	13	$10\frac{1}{2}$	5	$4\frac{1}{4}$	16	2



ANGLE-IRON RINGS (FLANGE INSIDE). 213

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
5	$4\frac{1}{2}$	16	$2\frac{3}{4}-\frac{1}{16}$	6	$1\frac{1}{4}$	18	$6\frac{1}{4}-\frac{1}{16}$	6	10	20	$9\frac{3}{4}$
5	$4\frac{3}{4}$	16	$3\frac{1}{2}-\frac{1}{16}$	6	$1\frac{1}{2}$	18	$7\frac{1}{16}$	6	$10\frac{1}{4}$	20	$10\frac{1}{2}$
5	5	16	$4\frac{3}{8}$	6	$1\frac{3}{4}$	18	$7\frac{3}{4}-\frac{1}{16}$	6	$10\frac{1}{2}$	20	$11\frac{1}{4}-\frac{1}{16}$
5	$5\frac{1}{4}$	16	$5\frac{1}{8}$	6	2	18	$8\frac{1}{2}-\frac{1}{16}$	6	$10\frac{3}{4}$	21	$0\frac{7}{8}$
5	$5\frac{1}{2}$	16	$5\frac{7}{8}$	6	$2\frac{1}{4}$	18	$9\frac{3}{8}$	6	11	21	$0\frac{7}{8}$
5	$5\frac{3}{4}$	16	$6\frac{5}{8}-\frac{1}{16}$	6	$2\frac{1}{2}$	18	$10\frac{1}{8}-\frac{1}{16}$	6	$11\frac{1}{4}$	21	$1\frac{5}{8}-\frac{1}{16}$
5	6	16	$7\frac{1}{2}$	6	$2\frac{3}{4}$	18	11	6	$11\frac{1}{2}$	21	$2\frac{1}{2}$
5	$6\frac{1}{4}$	16	$8\frac{1}{4}-\frac{1}{16}$	6	3	18	$11\frac{3}{4}-\frac{1}{16}$	6	$11\frac{3}{4}$	21	$3\frac{1}{4}$
5	$6\frac{1}{2}$	16	$9\frac{1}{8}$	6	$3\frac{1}{4}$	19	$0\frac{1}{2}-\frac{1}{16}$	7	0	21	4
5	$6\frac{3}{4}$	16	$9\frac{7}{8}$	6	$3\frac{1}{2}$	19	$1\frac{1}{4}-\frac{1}{16}$	7	$0\frac{1}{4}$	21	$4\frac{3}{4}-\frac{1}{16}$
5	7	16	$10\frac{5}{8}$	6	$3\frac{3}{4}$	19	$2\frac{1}{8}$	7	$0\frac{1}{2}$	21	$5\frac{1}{2}-\frac{1}{16}$
5	$7\frac{1}{4}$	16	$11\frac{3}{8}$	6	4	19	$2\frac{7}{8}$	7	$0\frac{3}{4}$	21	$6\frac{3}{8}$
5	$7\frac{1}{2}$	17	$0\frac{1}{8}-\frac{1}{16}$	6	$4\frac{1}{4}$	19	$3\frac{5}{8}-\frac{1}{16}$	7	1	21	$7\frac{1}{8}-\frac{1}{16}$
5	$7\frac{3}{4}$	17	1	6	$4\frac{1}{2}$	19	$4\frac{1}{2}$	7	$1\frac{1}{4}$	21	8
5	8	17	$1\frac{3}{4}-\frac{1}{16}$	6	$4\frac{3}{4}$	19	$5\frac{1}{4}-\frac{1}{16}$	7	$1\frac{1}{2}$	21	$8\frac{3}{4}$
5	$8\frac{1}{4}$	17	$2\frac{1}{2}-\frac{1}{16}$	6	5	19	$6\frac{1}{16}$	7	$1\frac{3}{4}$	21	$9\frac{1}{2}$
5	$8\frac{1}{2}$	17	$3\frac{3}{8}$	6	$5\frac{1}{4}$	19	$6\frac{3}{4}-\frac{1}{16}$	7	2	21	$10\frac{1}{4}-\frac{1}{16}$
5	$8\frac{3}{4}$	17	$4\frac{1}{8}$	6	$5\frac{1}{2}$	19	$7\frac{1}{2}-\frac{1}{16}$	7	$2\frac{1}{4}$	21	$11\frac{1}{8}$
5	9	17	$4\frac{7}{8}$	6	$5\frac{3}{4}$	19	$8\frac{3}{8}$	7	$2\frac{1}{2}$	21	$11\frac{7}{8}$
5	$9\frac{1}{4}$	17	$5\frac{5}{8}-\frac{1}{16}$	6	6	19	$9\frac{1}{8}-\frac{1}{16}$	7	$2\frac{3}{4}$	22	$0\frac{7}{8}-\frac{1}{16}$
5	$9\frac{1}{2}$	17	$6\frac{1}{2}$	6	$6\frac{1}{4}$	19	10	7	3	22	$1\frac{1}{2}$
5	$9\frac{3}{4}$	17	$7\frac{1}{4}$	6	$6\frac{1}{2}$	19	$10\frac{3}{4}-\frac{1}{16}$	7	$3\frac{1}{4}$	22	$2\frac{1}{4}$
5	10	17	$8\frac{1}{8}$	6	$6\frac{3}{4}$	19	$11\frac{1}{2}-\frac{1}{16}$	7	$3\frac{1}{2}$	22	3
5	$10\frac{1}{4}$	17	$8\frac{7}{8}$	6	7	20	$0\frac{1}{4}-\frac{1}{16}$	7	$3\frac{3}{4}$	22	$3\frac{3}{4}-\frac{1}{16}$
5	$10\frac{1}{2}$	17	$9\frac{5}{8}$	6	$7\frac{1}{4}$	20	$1\frac{1}{8}$	7	4	22	$4\frac{1}{2}-\frac{1}{16}$
5	$10\frac{3}{4}$	17	$10\frac{3}{8}$	6	$7\frac{1}{2}$	20	$1\frac{7}{8}$	7	$4\frac{1}{4}$	22	$5\frac{3}{8}$
5	11	17	$11\frac{1}{8}-\frac{1}{16}$	6	$7\frac{3}{4}$	20	$2\frac{5}{8}-\frac{1}{16}$	7	$4\frac{1}{2}$	22	$6\frac{1}{8}-\frac{1}{16}$
5	$11\frac{1}{4}$	18	0	6	8	20	$3\frac{1}{2}$	7	$4\frac{3}{4}$	22	7
5	$11\frac{1}{2}$	18	$0\frac{3}{4}-\frac{1}{16}$	6	$8\frac{1}{4}$	20	$4\frac{1}{4}-\frac{1}{16}$	7	5	22	$7\frac{3}{4}$
5	$11\frac{3}{4}$	18	$1\frac{1}{2}-\frac{1}{16}$	6	$8\frac{1}{2}$	20	$5\frac{1}{16}$	7	$5\frac{1}{4}$	22	$8\frac{1}{2}$
6	0	18	$2\frac{1}{4}-\frac{1}{16}$	6	$8\frac{3}{4}$	20	$5\frac{3}{4}-\frac{1}{16}$	7	$5\frac{1}{2}$	22	$9\frac{1}{4}-\frac{1}{16}$
6	$0\frac{1}{4}$	18	$3\frac{1}{8}$	6	9	20	$6\frac{1}{2}-\frac{1}{16}$	7	$5\frac{3}{4}$	22	$10\frac{1}{8}$
6	$0\frac{1}{2}$	18	$3\frac{7}{8}$	6	$9\frac{1}{4}$	20	$7\frac{3}{8}$	7	6	22	$10\frac{7}{8}$
6	$0\frac{3}{4}$	18	$4\frac{5}{8}-\frac{1}{16}$	6	$9\frac{1}{2}$	20	$8\frac{1}{8}-\frac{1}{16}$	7	$6\frac{1}{4}$	22	$11\frac{5}{8}-\frac{1}{16}$
6	1	18	$5\frac{1}{2}$	6	$9\frac{3}{4}$	20	9	7	$6\frac{1}{2}$	23	$0\frac{1}{2}$

# 214      DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
7	$6\frac{3}{4}$	23	$1\frac{1}{4}$	8	$3\frac{1}{2}$	25	$4\frac{5}{8}-\frac{1}{16}$	9	$0\frac{1}{4}$	27	$8\frac{1}{8}-\frac{1}{16}$
7	7	23	2	8	$3\frac{3}{4}$	25	$5\frac{1}{2}$	9	$0\frac{1}{2}$	27	9
7	$7\frac{1}{4}$	23	$2\frac{3}{4}-\frac{1}{16}$	8	4	25	$6\frac{1}{4}-\frac{1}{16}$	9	$0\frac{3}{4}$	27	$9\frac{3}{4}$
7	$7\frac{1}{2}$	23	$3\frac{1}{2}-\frac{1}{16}$	8	$4\frac{1}{4}$	25	$7\frac{1}{8}$	9	1	27	$10\frac{1}{2}$
7	$7\frac{3}{4}$	23	$4\frac{3}{8}$	8	$4\frac{1}{2}$	25	$7\frac{7}{8}$	9	$1\frac{1}{4}$	27	$11\frac{1}{4}-\frac{1}{16}$
7	8	23	$5\frac{1}{8}-\frac{1}{16}$	8	$4\frac{3}{4}$	25	$8\frac{5}{8}-\frac{1}{16}$	9	$1\frac{1}{2}$	28	$0\frac{1}{8}$
7	$8\frac{1}{4}$	23	6	8	5	25	$9\frac{3}{8}-\frac{1}{16}$	9	$1\frac{3}{4}$	28	$0\frac{7}{8}$
7	$8\frac{1}{2}$	23	$6\frac{3}{4}$	8	$5\frac{1}{4}$	25	$10\frac{1}{8}-\frac{1}{16}$	9	2	28	$1\frac{5}{8}-\frac{1}{16}$
7	$8\frac{3}{4}$	23	$7\frac{1}{2}$	8	$5\frac{1}{2}$	25	11	9	$2\frac{1}{4}$	28	$2\frac{1}{2}$
7	9	23	$8\frac{1}{4}-\frac{1}{16}$	8	$5\frac{3}{4}$	25	$11\frac{3}{4}-\frac{1}{16}$	9	$2\frac{1}{2}$	28	$3\frac{1}{4}$
7	$9\frac{1}{4}$	23	$9\frac{1}{16}$	8	6	26	$0\frac{1}{2}-\frac{1}{16}$	9	$2\frac{3}{4}$	28	4
7	$9\frac{1}{2}$	23	$9\frac{7}{8}$	8	$6\frac{1}{4}$	26	$1\frac{3}{8}$	9	3	28	$4\frac{7}{8}$
7	$9\frac{3}{4}$	23	$10\frac{5}{8}-\frac{1}{16}$	8	$6\frac{1}{2}$	26	$2\frac{1}{8}-\frac{1}{16}$	9	$3\frac{1}{4}$	28	$5\frac{5}{8}$
7	10	23	$11\frac{3}{8}-\frac{1}{16}$	8	$6\frac{3}{4}$	26	$2\frac{7}{8}-\frac{1}{16}$	9	$3\frac{1}{2}$	28	$6\frac{3}{8}$
7	$10\frac{1}{4}$	24	$0\frac{1}{8}-\frac{1}{16}$	8	7	26	$3\frac{5}{8}-\frac{1}{16}$	9	$3\frac{3}{4}$	28	$7\frac{1}{8}-\frac{1}{16}$
7	$10\frac{1}{2}$	24	1	8	$7\frac{1}{4}$	26	$4\frac{1}{2}$	9	4	28	8
7	$10\frac{3}{4}$	24	$1\frac{3}{4}-\frac{1}{16}$	8	$7\frac{1}{2}$	26	$5\frac{1}{4}-\frac{1}{16}$	9	$4\frac{1}{4}$	28	$8\frac{3}{4}$
7	11	24	$2\frac{1}{2}-\frac{1}{16}$	8	$7\frac{3}{4}$	26	$6\frac{1}{16}$	9	$4\frac{1}{2}$	28	$9\frac{1}{2}$
7	$11\frac{1}{4}$	24	$3\frac{3}{8}$	8	8	26	$6\frac{3}{4}-\frac{1}{16}$	9	$4\frac{3}{4}$	28	$10\frac{1}{4}-\frac{1}{16}$
7	$11\frac{1}{2}$	24	$4\frac{1}{8}-\frac{1}{16}$	8	$8\frac{1}{4}$	26	$7\frac{5}{8}$	9	5	28	$11\frac{1}{8}$
7	$11\frac{3}{4}$	24	5	8	$8\frac{1}{2}$	26	$8\frac{3}{8}-\frac{1}{16}$	9	$5\frac{1}{4}$	28	$11\frac{7}{8}$
8	0	24	$5\frac{3}{4}$	8	$8\frac{3}{4}$	26	$9\frac{1}{8}-\frac{1}{16}$	9	$5\frac{1}{2}$	29	$0\frac{5}{8}-\frac{1}{16}$
8	$0\frac{1}{4}$	24	$6\frac{1}{2}$	8	9	26	10	9	$5\frac{3}{4}$	29	$1\frac{1}{2}$
8	$0\frac{1}{2}$	24	$7\frac{1}{4}-\frac{1}{16}$	8	$9\frac{1}{4}$	26	$10\frac{3}{4}$	9	6	29	$2\frac{1}{4}$
8	$0\frac{3}{4}$	24	$8\frac{1}{8}$	8	$9\frac{1}{2}$	26	$11\frac{1}{2}-\frac{1}{16}$	9	$6\frac{1}{4}$	29	3
8	1	24	$8\frac{7}{8}$	8	$9\frac{3}{4}$	27	$0\frac{1}{4}-\frac{1}{16}$	9	$6\frac{1}{2}$	29	$3\frac{3}{4}-\frac{1}{16}$
8	$1\frac{1}{4}$	24	$9\frac{5}{8}-\frac{1}{16}$	8	10	27	$1\frac{1}{16}$	9	$6\frac{3}{4}$	29	$4\frac{5}{8}$
8	$1\frac{1}{2}$	24	$10\frac{3}{8}-\frac{1}{16}$	8	$10\frac{1}{4}$	27	$1\frac{7}{8}-\frac{1}{16}$	9	7	29	$5\frac{3}{8}$
8	$1\frac{3}{4}$	24	$11\frac{1}{8}-\frac{1}{16}$	8	$10\frac{1}{2}$	27	$2\frac{5}{8}-\frac{1}{16}$	9	$7\frac{1}{4}$	29	$6\frac{1}{8}-\frac{1}{16}$
8	2	25	0	8	$10\frac{3}{4}$	27	$3\frac{1}{2}$	9	$7\frac{1}{2}$	29	7
8	$2\frac{1}{4}$	25	$0\frac{3}{4}-\frac{1}{16}$	8	11	27	$4\frac{1}{4}$	9	$7\frac{3}{4}$	29	$7\frac{3}{4}$
8	$2\frac{1}{2}$	25	$1\frac{1}{2}-\frac{1}{16}$	8	$11\frac{1}{4}$	27	$5\frac{1}{16}$	9	8	29	$8\frac{1}{2}-\frac{1}{16}$
8	$2\frac{3}{4}$	25	$2\frac{3}{8}$	8	$11\frac{1}{2}$	27	$5\frac{3}{4}-\frac{1}{16}$	9	$8\frac{1}{4}$	29	$9\frac{1}{4}-\frac{1}{16}$
8	3	25	$3\frac{1}{8}-\frac{1}{16}$	8	$11\frac{3}{4}$	27	$6\frac{5}{8}$	9	$8\frac{1}{2}$	29	$10\frac{1}{8}$
8	$3\frac{1}{4}$	25	$3\frac{7}{8}-\frac{1}{16}$	9	0	27	$7\frac{3}{8}-\frac{1}{16}$	9	$8\frac{3}{4}$	29	$10\frac{7}{8}$

ANGLE-IRON RINGS (FLANGE INSIDE). 215

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
9	9	29	$11\frac{5}{8}-\frac{1}{16}$	10	$5\frac{3}{4}$	32	$3\frac{1}{8}-\frac{1}{16}$	11	$2\frac{1}{2}$	34	$6\frac{5}{8}-\frac{1}{16}$
9	$9\frac{1}{4}$	30	$0\frac{3}{8}-\frac{1}{16}$	10	6	32	$3\frac{7}{8}-\frac{1}{16}$	11	$2\frac{3}{4}$	34	$7\frac{3}{8}-\frac{1}{16}$
9	$9\frac{1}{2}$	30	$1\frac{1}{4}$	10	$6\frac{1}{4}$	32	$4\frac{3}{4}$	11	3	34	$8\frac{1}{4}$
9	$9\frac{3}{4}$	30	2	10	$6\frac{1}{2}$	32	$5\frac{1}{2}$	11	$3\frac{1}{4}$	34	9
9	10	30	$2\frac{3}{4}-\frac{1}{16}$	10	$6\frac{3}{4}$	32	$6\frac{1}{4}-\frac{1}{16}$	11	$3\frac{1}{2}$	34	$9\frac{3}{4}-\frac{1}{16}$
9	$10\frac{1}{4}$	30	$3\frac{5}{8}$	10	7	32	$7\frac{1}{8}$	11	$3\frac{3}{4}$	34	$10\frac{1}{2}-\frac{1}{16}$
9	$10\frac{1}{2}$	30	$4\frac{3}{8}$	10	$7\frac{1}{4}$	32	$7\frac{7}{8}$	11	4	34	$11\frac{3}{8}$
9	$10\frac{3}{4}$	30	$5\frac{1}{8}-\frac{1}{16}$	10	$7\frac{1}{2}$	32	$8\frac{5}{8}-\frac{1}{16}$	11	$4\frac{1}{4}$	35	$0\frac{1}{8}$
9	11	30	6	10	$7\frac{3}{4}$	32	$9\frac{3}{8}-\frac{1}{16}$	11	$4\frac{1}{2}$	35	$0\frac{7}{8}-\frac{1}{16}$
9	$11\frac{1}{4}$	30	$6\frac{3}{4}$	10	8	32	$10\frac{1}{4}$	11	$4\frac{3}{4}$	35	$1\frac{3}{4}$
9	$11\frac{1}{2}$	30	$7\frac{1}{2}$	10	$8\frac{1}{4}$	32	11	11	5	35	$2\frac{1}{2}$
9	$11\frac{3}{4}$	30	$8\frac{1}{4}-\frac{1}{16}$	10	$8\frac{1}{2}$	32	$11\frac{3}{4}-\frac{1}{16}$	11	$5\frac{1}{4}$	35	$3\frac{1}{4}-\frac{1}{16}$
10	0	30	$9\frac{1}{8}$	10	$8\frac{3}{4}$	33	$0\frac{5}{8}$	11	$5\frac{1}{2}$	35	$4\frac{1}{16}$
10	$0\frac{1}{4}$	30	$9\frac{7}{8}$	10	9	33	$1\frac{5}{8}$	11	$5\frac{3}{4}$	35	$4\frac{7}{8}$
10	$0\frac{1}{2}$	30	$10\frac{5}{8}-\frac{1}{16}$	10	$9\frac{1}{4}$	33	$2\frac{1}{8}-\frac{1}{16}$	11	6	35	$5\frac{5}{8}$
10	$0\frac{3}{4}$	30	$11\frac{3}{8}-\frac{1}{16}$	10	$9\frac{1}{2}$	33	3	11	$6\frac{1}{4}$	35	$6\frac{3}{8}-\frac{1}{16}$
10	1	31	$0\frac{1}{4}$	10	$9\frac{3}{4}$	33	$3\frac{3}{4}$	11	$6\frac{1}{2}$	35	$7\frac{1}{4}$
10	$1\frac{1}{4}$	31	1	10	10	33	$4\frac{1}{2}$	11	$6\frac{3}{4}$	35	8
10	$1\frac{1}{2}$	31	$1\frac{3}{4}-\frac{1}{16}$	10	$10\frac{1}{4}$	33	$5\frac{1}{4}-\frac{1}{16}$	11	7	35	$8\frac{3}{4}-\frac{1}{16}$
10	$1\frac{3}{4}$	31	$2\frac{5}{8}$	10	$10\frac{1}{2}$	33	$6\frac{1}{16}$	11	$7\frac{1}{4}$	35	$9\frac{1}{2}-\frac{1}{16}$
10	2	31	$3\frac{3}{8}$	10	$10\frac{3}{4}$	33	$6\frac{7}{8}$	11	$7\frac{1}{2}$	35	$10\frac{3}{8}$
10	$2\frac{1}{4}$	31	$4\frac{1}{8}$	10	11	33	$7\frac{5}{8}-\frac{1}{16}$	11	$7\frac{3}{4}$	35	$11\frac{1}{8}$
10	$2\frac{1}{2}$	31	5	10	$11\frac{1}{4}$	33	$8\frac{3}{8}-\frac{1}{16}$	11	8	35	$11\frac{7}{8}-\frac{1}{16}$
10	$2\frac{3}{4}$	31	$5\frac{3}{4}$	10	$11\frac{1}{2}$	33	$9\frac{1}{4}$	11	$8\frac{1}{4}$	36	$0\frac{5}{8}-\frac{1}{16}$
10	3	31	$6\frac{1}{2}$	10	$11\frac{3}{4}$	33	10	11	$8\frac{1}{2}$	36	$1\frac{1}{2}$
10	$3\frac{1}{4}$	31	$7\frac{1}{4}-\frac{1}{16}$	11	0	33	$10\frac{3}{4}-\frac{1}{16}$	11	$8\frac{3}{4}$	36	$2\frac{1}{4}-\frac{1}{16}$
10	$3\frac{1}{2}$	31	$8\frac{1}{8}$	11	$0\frac{1}{4}$	33	$11\frac{1}{2}-\frac{1}{16}$	11	9	36	$3\frac{1}{16}$
10	$3\frac{3}{4}$	31	$8\frac{7}{8}$	11	$0\frac{1}{2}$	34	$0\frac{3}{8}$	11	$9\frac{1}{4}$	36	$3\frac{7}{8}$
10	4	31	$9\frac{5}{8}-\frac{1}{16}$	11	$0\frac{3}{4}$	34	$1\frac{1}{8}-\frac{1}{16}$	11	$9\frac{1}{2}$	36	$4\frac{5}{8}$
10	$4\frac{1}{4}$	31	$10\frac{3}{8}-\frac{1}{16}$	11	1	34	$1\frac{7}{8}-\frac{1}{16}$	11	$9\frac{3}{4}$	36	$5\frac{3}{8}-\frac{1}{16}$
10	$4\frac{1}{2}$	31	$11\frac{1}{4}$	11	$1\frac{1}{4}$	34	$2\frac{3}{4}$	11	10	36	$6\frac{1}{4}$
10	$4\frac{3}{4}$	32	0	11	$1\frac{1}{2}$	34	$3\frac{1}{2}$	11	$10\frac{1}{4}$	36	7
10	5	32	$0\frac{3}{4}-\frac{1}{16}$	11	$1\frac{3}{4}$	34	$4\frac{1}{4}-\frac{1}{16}$	11	$10\frac{1}{2}$	36	$7\frac{3}{4}-\frac{1}{16}$
10	$5\frac{1}{4}$	32	$1\frac{5}{8}$	11	2	34	$5\frac{1}{16}$	11	$10\frac{3}{4}$	36	$8\frac{1}{2}-\frac{1}{16}$
10	$5\frac{1}{2}$	32	$2\frac{3}{8}$	11	$2\frac{1}{4}$	34	$5\frac{7}{8}$	11	11	36	$9\frac{3}{8}$

# 216    DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{4}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
11	$11\frac{1}{4}$	36	$10\frac{1}{8}$	12	$3\frac{3}{4}$	38	$0\frac{1}{4}-\frac{1}{16}$	12	$8\frac{1}{4}$	39	$2\frac{3}{8}-\frac{1}{16}$
11	$11\frac{1}{2}$	36	$10\frac{7}{8}-\frac{1}{16}$	12	4	38	$1\frac{1}{8}$	12	$8\frac{1}{2}$	39	$3\frac{1}{4}$
11	$11\frac{3}{4}$	36	$11\frac{3}{4}$	12	$4\frac{1}{4}$	38	$1\frac{7}{8}$	12	$8\frac{3}{4}$	39	4
12	0	37	$0\frac{1}{2}$	12	$4\frac{1}{2}$	38	$2\frac{5}{8}$	12	9	39	$4\frac{3}{4}-\frac{1}{16}$
12	$0\frac{1}{4}$	37	$1\frac{1}{4}-\frac{1}{16}$	12	$4\frac{3}{4}$	38	$3\frac{3}{8}$	12	$9\frac{1}{4}$	39	$5\frac{1}{2}-\frac{1}{16}$
12	$0\frac{1}{2}$	37	$2\frac{1}{16}$	12	5	38	$4\frac{1}{8}-\frac{1}{16}$	12	$9\frac{1}{2}$	39	$6\frac{3}{8}$
12	$0\frac{3}{4}$	37	$2\frac{7}{8}$	12	$5\frac{1}{4}$	38	5	12	$9\frac{3}{4}$	39	$7\frac{1}{8}$
12	1	37	$3\frac{5}{8}$	12	$5\frac{1}{2}$	38	$5\frac{3}{4}-\frac{1}{16}$	12	10	39	$7\frac{7}{8}-\frac{1}{16}$
12	$1\frac{1}{4}$	37	$4\frac{3}{8}-\frac{1}{16}$	12	$5\frac{3}{4}$	38	$6\frac{5}{8}$	12	$10\frac{1}{4}$	39	$8\frac{3}{8}-\frac{1}{16}$
12	$1\frac{1}{2}$	37	$5\frac{1}{4}$	12	6	38	$7\frac{3}{8}$	12	$10\frac{1}{2}$	39	$9\frac{1}{2}$
12	$1\frac{3}{4}$	37	6	12	$6\frac{1}{4}$	38	$8\frac{1}{8}$	12	$10\frac{3}{4}$	39	$10\frac{1}{4}-\frac{1}{16}$
12	2	37	$6\frac{3}{4}$	12	$6\frac{1}{2}$	38	$8\frac{7}{8}-\frac{1}{16}$	12	11	39	$11\frac{1}{16}$
12	$2\frac{1}{4}$	37	$7\frac{1}{2}-\frac{1}{16}$	12	$6\frac{3}{4}$	38	$9\frac{3}{4}$	12	$11\frac{1}{4}$	39	$11\frac{3}{4}-\frac{1}{16}$
12	$2\frac{1}{2}$	37	$8\frac{3}{8}$	12	7	38	$10\frac{1}{2}$	12	$11\frac{1}{2}$	40	$0\frac{5}{8}$
12	$2\frac{3}{4}$	37	$9\frac{1}{8}$	12	$7\frac{1}{4}$	38	$11\frac{1}{4}$	12	$11\frac{3}{4}$	40	$1\frac{3}{8}-\frac{1}{16}$
12	3	37	$9\frac{7}{8}$	12	$7\frac{1}{2}$	39	$0\frac{1}{16}$	13	0	40	$2\frac{1}{8}-\frac{1}{16}$
12	$3\frac{1}{4}$	37	$10\frac{3}{4}$	12	$7\frac{3}{4}$	39	$0\frac{7}{8}$				
12	$3\frac{1}{2}$	37	$11\frac{1}{2}$	12	8	39	$1\frac{5}{8}$				

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	0	2	$5\frac{1}{16}$	1	$2\frac{1}{2}$	3	$0\frac{7}{8}$	1	5	3	$8\frac{3}{4}$
1	$0\frac{1}{4}$	2	$5\frac{3}{4}-\frac{1}{16}$	1	$2\frac{3}{4}$	3	$1\frac{5}{8}-\frac{1}{16}$	1	$5\frac{1}{4}$	3	$9\frac{1}{2}-\frac{1}{16}$
1	$0\frac{1}{2}$	2	$6\frac{5}{8}$	1	3	3	$2\frac{3}{8}-\frac{1}{16}$	1	$5\frac{1}{2}$	3	$10\frac{1}{4}-\frac{1}{16}$
1	$0\frac{3}{4}$	2	$7\frac{3}{8}$	1	$3\frac{1}{4}$	3	$3\frac{1}{4}$	1	$5\frac{3}{4}$	3	$11\frac{1}{16}$
1	1	2	$8\frac{3}{8}-\frac{1}{16}$	1	$3\frac{1}{2}$	3	$4\frac{1}{16}$	1	6	3	$11\frac{7}{8}$
1	$1\frac{1}{4}$	2	$8\frac{7}{8}-\frac{1}{16}$	1	$3\frac{3}{4}$	3	$4\frac{3}{4}-\frac{1}{16}$	1	$6\frac{1}{4}$	4	$0\frac{5}{8}-\frac{1}{16}$
1	$1\frac{1}{2}$	2	$9\frac{3}{4}$	1	4	3	$5\frac{1}{2}-\frac{1}{16}$	1	$6\frac{1}{2}$	4	$1\frac{3}{8}-\frac{1}{16}$
1	$1\frac{3}{4}$	2	$10\frac{1}{2}-\frac{1}{16}$	1	$4\frac{1}{4}$	3	$6\frac{3}{8}$	1	$6\frac{3}{4}$	4	$2\frac{1}{4}$
1	2	2	$11\frac{1}{4}-\frac{1}{16}$	1	$4\frac{1}{2}$	3	$7\frac{1}{8}-\frac{1}{16}$	1	7	4	$3\frac{1}{16}$
1	$2\frac{1}{4}$	3	$0\frac{1}{16}$	1	$4\frac{3}{4}$	3	$7\frac{7}{8}-\frac{1}{16}$	1	$7\frac{1}{4}$	4	$3\frac{3}{4}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 217

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
1	7 $\frac{1}{2}$	4	4 $\frac{1}{2}$ - $\frac{1}{16}$	2	4 $\frac{1}{4}$	6	8 $\frac{3}{8}$	3	1	8	11 $\frac{5}{8}$
1	7 $\frac{3}{4}$	4	5 $\frac{3}{8}$	2	4 $\frac{1}{2}$	6	8 $\frac{7}{8}$	3	1 $\frac{1}{4}$	9	0 $\frac{3}{8}$
1	8	4	6 $\frac{1}{8}$ - $\frac{1}{16}$	2	4 $\frac{3}{4}$	6	9 $\frac{5}{8}$ - $\frac{1}{16}$	3	1 $\frac{1}{2}$	9	1 $\frac{1}{8}$ - $\frac{1}{16}$
1	8 $\frac{1}{4}$	4	6 $\frac{7}{8}$ - $\frac{1}{16}$	2	5	6	10 $\frac{3}{8}$ - $\frac{1}{16}$	3	1 $\frac{3}{4}$	9	2
1	8 $\frac{1}{2}$	4	7 $\frac{3}{4}$	2	5 $\frac{1}{4}$	6	11 $\frac{1}{4}$	3	2	9	2 $\frac{3}{4}$
1	8 $\frac{3}{4}$	4	8 $\frac{1}{2}$	2	5 $\frac{1}{2}$	7	0	3	2 $\frac{1}{4}$	9	3 $\frac{1}{2}$
1	9	4	9 $\frac{1}{4}$ - $\frac{1}{16}$	2	5 $\frac{3}{4}$	7	0 $\frac{3}{4}$ - $\frac{1}{16}$	3	2 $\frac{1}{2}$	9	4 $\frac{1}{4}$ - $\frac{1}{16}$
1	9 $\frac{1}{4}$	4	10 $\frac{1}{16}$	2	6	7	1 $\frac{1}{2}$ - $\frac{1}{16}$	3	2 $\frac{3}{4}$	9	5 $\frac{1}{16}$
1	9 $\frac{1}{2}$	4	10 $\frac{7}{8}$	2	6 $\frac{1}{4}$	7	2 $\frac{3}{8}$	3	3	9	5 $\frac{7}{8}$
1	9 $\frac{3}{4}$	4	11 $\frac{5}{8}$ - $\frac{1}{16}$	2	6 $\frac{1}{2}$	7	3 $\frac{1}{8}$	3	3 $\frac{1}{4}$	9	6 $\frac{5}{8}$ - $\frac{1}{16}$
1	10	5	0 $\frac{3}{8}$ - $\frac{1}{16}$	2	6 $\frac{3}{4}$	7	3 $\frac{7}{8}$ - $\frac{1}{16}$	3	3 $\frac{1}{2}$	9	7 $\frac{3}{8}$ - $\frac{1}{16}$
1	10 $\frac{1}{4}$	5	1 $\frac{1}{4}$	2	7	7	4 $\frac{3}{4}$	3	3 $\frac{3}{4}$	9	8 $\frac{1}{8}$ - $\frac{1}{16}$
1	10 $\frac{1}{2}$	5	2	2	7 $\frac{1}{4}$	7	5 $\frac{1}{2}$	3	4	9	9
1	10 $\frac{3}{4}$	5	2 $\frac{3}{4}$ - $\frac{1}{16}$	2	7 $\frac{1}{2}$	7	6 $\frac{1}{4}$ - $\frac{1}{16}$	3	4 $\frac{1}{4}$	9	9 $\frac{3}{4}$ - $\frac{1}{16}$
1	11	5	3 $\frac{1}{2}$ - $\frac{1}{16}$	2	7 $\frac{3}{4}$	7	7 $\frac{1}{16}$	3	4 $\frac{1}{2}$	9	10 $\frac{1}{2}$
1	11 $\frac{1}{4}$	5	4 $\frac{3}{8}$	2	8	7	7 $\frac{7}{8}$	3	4 $\frac{3}{4}$	9	11 $\frac{3}{8}$
1	11 $\frac{1}{2}$	5	5 $\frac{1}{8}$ - $\frac{1}{16}$	2	8 $\frac{1}{4}$	7	8 $\frac{5}{8}$	3	5	10	0 $\frac{1}{8}$ - $\frac{1}{16}$
1	11 $\frac{3}{4}$	5	5 $\frac{7}{8}$ - $\frac{1}{16}$	2	8 $\frac{1}{2}$	7	9 $\frac{3}{8}$ - $\frac{1}{16}$	3	5 $\frac{1}{4}$	10	1
2	0	5	6 $\frac{3}{4}$	2	8 $\frac{3}{4}$	7	10 $\frac{1}{4}$	3	5 $\frac{1}{2}$	10	1 $\frac{3}{4}$
2	0 $\frac{1}{4}$	5	7 $\frac{1}{2}$	2	9	7	11	3	5 $\frac{3}{4}$	10	2 $\frac{1}{2}$
2	0 $\frac{1}{2}$	5	8 $\frac{1}{4}$ - $\frac{1}{16}$	2	9 $\frac{1}{4}$	7	11 $\frac{3}{4}$ - $\frac{1}{16}$	3	6	10	3 $\frac{1}{4}$ - $\frac{1}{16}$
2	0 $\frac{3}{4}$	5	9 $\frac{1}{16}$	2	9 $\frac{1}{2}$	8	0 $\frac{1}{2}$ - $\frac{1}{16}$	3	6 $\frac{1}{4}$	10	4 $\frac{1}{8}$
2	1	5	9 $\frac{7}{8}$	2	9 $\frac{3}{4}$	8	1 $\frac{3}{8}$	3	6 $\frac{1}{2}$	10	4 $\frac{7}{8}$
2	1 $\frac{1}{4}$	5	10 $\frac{5}{8}$	2	10	8	2 $\frac{1}{8}$ - $\frac{1}{16}$	3	6 $\frac{3}{4}$	10	5 $\frac{5}{8}$ - $\frac{1}{16}$
2	1 $\frac{1}{2}$	5	11 $\frac{3}{8}$ - $\frac{1}{16}$	2	10 $\frac{1}{4}$	8	3	3	7	10	6 $\frac{3}{8}$ - $\frac{1}{16}$
2	1 $\frac{3}{4}$	6	0 $\frac{1}{4}$	2	10 $\frac{1}{2}$	8	3 $\frac{3}{4}$	3	7 $\frac{1}{4}$	10	7 $\frac{1}{8}$ - $\frac{1}{16}$
2	2	6	1	2	10 $\frac{3}{4}$	8	4 $\frac{1}{2}$	3	7 $\frac{1}{2}$	10	8
2	2 $\frac{1}{4}$	6	1 $\frac{3}{4}$ - $\frac{1}{16}$	2	11	8	5 $\frac{1}{4}$ - $\frac{1}{16}$	3	7 $\frac{3}{4}$	10	8 $\frac{3}{4}$ - $\frac{1}{16}$
2	2 $\frac{1}{2}$	6	2 $\frac{1}{2}$ - $\frac{1}{16}$	2	11 $\frac{1}{4}$	8	6 $\frac{1}{16}$	3	8	10	9 $\frac{5}{8}$
2	2 $\frac{3}{4}$	6	3 $\frac{3}{8}$	2	11 $\frac{1}{2}$	8	6 $\frac{7}{8}$	3	8 $\frac{1}{4}$	10	10 $\frac{3}{8}$
2	3	6	4 $\frac{1}{8}$	2	11 $\frac{3}{4}$	8	7 $\frac{5}{8}$ - $\frac{1}{16}$	3	8 $\frac{1}{2}$	10	11 $\frac{1}{8}$ - $\frac{1}{16}$
2	3 $\frac{1}{4}$	6	4 $\frac{7}{8}$ - $\frac{1}{16}$	3	0	8	8 $\frac{1}{2}$	3	8 $\frac{3}{4}$	10	11 $\frac{7}{8}$ - $\frac{1}{16}$
2	3 $\frac{1}{2}$	6	5 $\frac{3}{4}$	3	0 $\frac{1}{4}$	8	9 $\frac{1}{4}$	3	9	11	0 $\frac{5}{8}$ - $\frac{1}{16}$
2	3 $\frac{3}{4}$	6	6 $\frac{1}{2}$	3	0 $\frac{1}{2}$	8	10	3	9 $\frac{1}{4}$	11	1 $\frac{1}{2}$
2	4	6	7 $\frac{1}{4}$ - $\frac{1}{16}$	3	0 $\frac{3}{4}$	8	10 $\frac{3}{4}$ - $\frac{1}{16}$	3	9 $\frac{1}{2}$	11	2 $\frac{1}{4}$ - $\frac{1}{16}$

# 218    DIAMETERS AND CIRCUMFERENCES OF

## DIAGONAL MEASUREMENT AT THE ROOT, $1\frac{1}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
3	$9\frac{3}{4}$	11	$3\frac{1}{16}$	4	$6\frac{1}{2}$	13	$6\frac{1}{2}-\frac{1}{16}$	5	$3\frac{1}{4}$	15	$10\frac{1}{16}$
3	10	11	$3\frac{7}{8}$	4	$6\frac{3}{4}$	13	$7\frac{3}{8}$	5	$3\frac{1}{2}$	15	$10\frac{7}{8}$
3	$10\frac{1}{4}$	11	$4\frac{5}{8}-\frac{1}{16}$	4	7	13	$8\frac{3}{8}$	5	$3\frac{3}{4}$	15	$11\frac{3}{8}$
3	$10\frac{1}{2}$	11	$5\frac{3}{8}-\frac{1}{16}$	4	$7\frac{1}{4}$	13	$8\frac{7}{8}$	5	4	16	$0\frac{3}{8}$
3	$10\frac{3}{4}$	11	$6\frac{1}{8}-\frac{1}{16}$	4	$7\frac{1}{2}$	13	$9\frac{5}{8}-\frac{1}{16}$	5	$4\frac{1}{4}$	16	$1\frac{1}{8}-\frac{1}{16}$
3	11	11	7	4	$7\frac{3}{4}$	13	$10\frac{1}{2}$	5	$4\frac{1}{2}$	16	2
3	$11\frac{1}{4}$	11	$7\frac{3}{4}-\frac{1}{16}$	4	8	13	$11\frac{1}{4}-\frac{1}{16}$	5	$4\frac{3}{4}$	16	$2\frac{3}{4}-\frac{1}{16}$
3	$11\frac{1}{2}$	11	$8\frac{1}{2}-\frac{1}{16}$	4	$8\frac{1}{4}$	14	$0\frac{1}{16}$	5	5	16	$3\frac{1}{2}-\frac{1}{16}$
3	$11\frac{3}{4}$	11	$9\frac{3}{8}$	4	$8\frac{1}{2}$	14	$0\frac{7}{8}$	5	$5\frac{1}{4}$	16	$4\frac{3}{8}$
4	0	11	$10\frac{1}{8}-\frac{1}{16}$	4	$8\frac{3}{4}$	14	$1\frac{5}{8}$	5	$5\frac{1}{2}$	16	$5\frac{1}{8}$
4	$0\frac{1}{4}$	11	$10\frac{7}{8}-\frac{1}{16}$	4	9	14	$2\frac{3}{8}$	5	$5\frac{3}{4}$	16	$5\frac{7}{8}$
4	$0\frac{1}{2}$	11	$11\frac{5}{8}-\frac{1}{16}$	4	$9\frac{1}{4}$	14	$3\frac{1}{8}-\frac{1}{16}$	5	6	16	$6\frac{5}{8}-\frac{1}{16}$
4	$0\frac{3}{4}$	12	$0\frac{1}{2}$	4	$9\frac{1}{2}$	14	4	5	$6\frac{1}{4}$	16	$7\frac{1}{2}$
4	1	12	$1\frac{1}{4}-\frac{1}{16}$	4	$9\frac{3}{4}$	14	$4\frac{3}{4}-\frac{1}{16}$	5	$6\frac{1}{2}$	16	$8\frac{1}{4}-\frac{1}{16}$
4	$1\frac{1}{4}$	12	$2\frac{1}{16}$	4	10	14	$5\frac{1}{2}-\frac{1}{16}$	5	$6\frac{3}{4}$	16	$9\frac{1}{8}$
4	$1\frac{1}{2}$	12	$2\frac{7}{8}$	4	$10\frac{1}{4}$	14	$6\frac{3}{8}$	5	7	16	$9\frac{7}{8}$
4	$1\frac{3}{4}$	12	$3\frac{3}{8}-\frac{1}{16}$	4	$10\frac{1}{2}$	14	$7\frac{1}{8}$	5	$7\frac{1}{4}$	16	$10\frac{5}{8}$
4	2	12	$4\frac{3}{8}-\frac{1}{16}$	4	$10\frac{3}{4}$	14	$7\frac{7}{8}$	5	$7\frac{1}{2}$	16	$11\frac{3}{8}$
4	$2\frac{1}{4}$	12	$5\frac{1}{8}-\frac{1}{16}$	4	11	14	$8\frac{5}{8}-\frac{1}{16}$	5	$7\frac{3}{4}$	17	$0\frac{1}{8}-\frac{1}{16}$
4	$2\frac{1}{2}$	12	6	4	$11\frac{1}{4}$	14	$9\frac{1}{2}$	5	8	17	1
4	$2\frac{3}{4}$	12	$6\frac{3}{4}-\frac{1}{16}$	4	$11\frac{1}{2}$	14	$10\frac{1}{4}$	5	$8\frac{1}{4}$	17	$1\frac{3}{4}-\frac{1}{16}$
4	3	12	$7\frac{1}{2}-\frac{1}{16}$	4	$11\frac{3}{4}$	14	$11\frac{1}{8}$	5	$8\frac{1}{2}$	17	$2\frac{1}{2}-\frac{1}{16}$
4	$3\frac{1}{4}$	12	$8\frac{3}{8}$	5	0	14	$11\frac{7}{8}$	5	$8\frac{3}{4}$	17	$3\frac{3}{8}$
4	$3\frac{1}{2}$	12	$9\frac{1}{8}-\frac{1}{16}$	5	$0\frac{1}{4}$	15	$0\frac{1}{8}$	5	9	17	$4\frac{1}{8}$
4	$3\frac{3}{4}$	12	$9\frac{7}{8}-\frac{1}{16}$	5	$0\frac{1}{2}$	15	$1\frac{3}{8}$	5	$9\frac{1}{4}$	17	$4\frac{7}{8}$
4	4	12	$10\frac{5}{8}-\frac{1}{16}$	5	$0\frac{3}{4}$	15	$2\frac{1}{8}-\frac{1}{16}$	5	$9\frac{1}{2}$	17	$5\frac{5}{8}-\frac{1}{16}$
4	$4\frac{1}{4}$	12	$11\frac{1}{2}$	5	1	15	3	5	$9\frac{3}{4}$	17	$6\frac{1}{2}$
4	$4\frac{1}{2}$	13	$0\frac{1}{4}-\frac{1}{16}$	5	$1\frac{1}{4}$	15	$3\frac{3}{4}-\frac{1}{16}$	5	10	17	$7\frac{1}{4}$
4	$4\frac{3}{4}$	13	$1\frac{1}{16}$	5	$1\frac{1}{2}$	15	$4\frac{1}{2}-\frac{1}{16}$	5	$10\frac{1}{4}$	17	$8\frac{1}{8}$
4	5	13	$1\frac{7}{8}$	5	$1\frac{3}{4}$	15	$5\frac{3}{8}$	5	$10\frac{1}{2}$	17	$8\frac{7}{8}$
4	$5\frac{1}{4}$	13	$2\frac{3}{8}-\frac{1}{16}$	5	2	15	$6\frac{1}{8}$	5	$10\frac{3}{4}$	17	$9\frac{5}{8}$
4	$5\frac{1}{2}$	13	$3\frac{3}{8}-\frac{1}{16}$	5	$2\frac{1}{4}$	15	$6\frac{7}{8}$	5	11	17	$10\frac{3}{8}$
4	$5\frac{3}{4}$	13	$4\frac{1}{8}-\frac{1}{16}$	5	$2\frac{1}{2}$	15	$7\frac{5}{8}-\frac{1}{16}$	5	$11\frac{1}{4}$	17	$11\frac{1}{8}-\frac{1}{16}$
4	6	13	5	5	$2\frac{3}{4}$	15	$8\frac{1}{2}$	5	$11\frac{1}{2}$	18	0
4	$6\frac{1}{4}$	13	$5\frac{3}{4}-\frac{1}{16}$	5	3	15	$9\frac{1}{4}-\frac{1}{16}$	5	$11\frac{3}{4}$	18	$0\frac{3}{4}-\frac{1}{16}$

ANGLE-IRON RINGS (FLANGE INSIDE). 219

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
6	0	18	$1\frac{1}{2}-\frac{1}{16}$	6	$8\frac{3}{4}$	20	$5\frac{1}{16}$	7	$5\frac{1}{2}$	22	$8\frac{1}{2}$
6	$0\frac{1}{4}$	18	$2\frac{1}{4}-\frac{1}{16}$	6	9	20	$5\frac{3}{4}-\frac{1}{16}$	7	$5\frac{3}{4}$	22	$9\frac{1}{4}-\frac{1}{16}$
6	$0\frac{1}{2}$	18	$3\frac{1}{8}$	6	$9\frac{1}{4}$	20	$6\frac{1}{2}-\frac{1}{16}$	7	6	22	$10\frac{1}{8}$
6	$0\frac{3}{4}$	18	$3\frac{7}{8}$	6	$9\frac{1}{2}$	20	$7\frac{3}{8}$	7	$6\frac{1}{4}$	22	$10\frac{7}{8}$
6	1	18	$4\frac{5}{8}-\frac{1}{16}$	6	$9\frac{3}{4}$	20	$8\frac{1}{8}-\frac{1}{16}$	7	$6\frac{1}{2}$	22	$11\frac{5}{8}-\frac{1}{16}$
6	$1\frac{1}{4}$	18	$5\frac{1}{2}$	6	10	20	9	7	$6\frac{3}{4}$	23	$0\frac{1}{2}$
6	$1\frac{1}{2}$	18	$6\frac{1}{4}-\frac{1}{16}$	6	$10\frac{1}{4}$	20	$9\frac{3}{4}$	7	7	23	$1\frac{1}{4}$
6	$1\frac{3}{4}$	18	$7\frac{1}{16}$	6	$10\frac{1}{2}$	20	$10\frac{1}{2}$	7	$7\frac{1}{4}$	23	2
6	2	18	$7\frac{3}{4}-\frac{1}{16}$	6	$10\frac{3}{4}$	20	$11\frac{1}{4}-\frac{1}{16}$	7	$7\frac{1}{2}$	23	$2\frac{3}{4}-\frac{1}{16}$
6	$2\frac{1}{4}$	18	$8\frac{1}{2}-\frac{1}{16}$	6	11	21	$0\frac{1}{8}$	7	$7\frac{3}{4}$	23	$3\frac{1}{2}-\frac{1}{16}$
6	$2\frac{1}{2}$	18	$9\frac{3}{8}$	6	$11\frac{1}{4}$	21	$0\frac{7}{8}$	7	8	23	$4\frac{3}{8}$
6	$2\frac{3}{4}$	18	$10\frac{1}{8}-\frac{1}{16}$	6	$11\frac{1}{2}$	21	$1\frac{5}{8}-\frac{1}{16}$	7	$8\frac{1}{4}$	23	$5\frac{1}{8}-\frac{1}{16}$
6	3	18	11	6	$11\frac{3}{4}$	21	$2\frac{1}{2}$	7	$8\frac{1}{2}$	23	6
6	$3\frac{1}{4}$	18	$11\frac{3}{4}-\frac{1}{16}$	7	0	21	$3\frac{1}{4}$	7	$8\frac{3}{4}$	23	$6\frac{3}{4}$
6	$3\frac{1}{2}$	19	$0\frac{1}{2}-\frac{1}{16}$	7	$0\frac{1}{4}$	21	4	7	9	23	$7\frac{1}{2}$
6	$3\frac{3}{4}$	19	$1\frac{1}{4}-\frac{1}{16}$	7	$0\frac{1}{2}$	21	$4\frac{3}{4}-\frac{1}{16}$	7	$9\frac{1}{4}$	23	$8\frac{1}{4}-\frac{1}{16}$
6	4	19	$2\frac{1}{8}$	7	$0\frac{3}{4}$	21	$5\frac{1}{2}-\frac{1}{16}$	7	$9\frac{1}{2}$	23	$9\frac{1}{16}$
6	$4\frac{1}{4}$	19	$2\frac{7}{8}$	7	1	21	$6\frac{3}{8}$	7	$9\frac{3}{4}$	23	$9\frac{7}{8}$
6	$4\frac{1}{2}$	19	$3\frac{5}{8}-\frac{1}{16}$	7	$1\frac{1}{4}$	21	$7\frac{1}{8}-\frac{1}{16}$	7	10	23	$10\frac{5}{8}-\frac{1}{16}$
6	$4\frac{3}{4}$	19	$4\frac{1}{2}$	7	$1\frac{1}{2}$	21	8	7	$10\frac{1}{4}$	23	$11\frac{3}{8}-\frac{1}{16}$
6	5	19	$5\frac{1}{4}-\frac{1}{16}$	7	$1\frac{3}{4}$	21	$8\frac{3}{4}$	7	$10\frac{1}{2}$	24	$0\frac{1}{8}-\frac{1}{16}$
6	$5\frac{1}{4}$	19	$6\frac{1}{16}$	7	2	21	$9\frac{1}{2}$	7	$10\frac{3}{4}$	24	1
6	$5\frac{1}{2}$	19	$6\frac{3}{4}-\frac{1}{16}$	7	$2\frac{1}{4}$	21	$10\frac{1}{4}-\frac{1}{16}$	7	11	24	$1\frac{3}{4}-\frac{1}{16}$
6	$5\frac{3}{4}$	19	$7\frac{1}{2}-\frac{1}{16}$	7	$2\frac{1}{2}$	21	$11\frac{1}{8}$	7	$11\frac{1}{4}$	24	$2\frac{1}{2}-\frac{1}{16}$
6	6	19	$8\frac{3}{8}$	7	$2\frac{3}{4}$	21	$11\frac{7}{8}$	7	$11\frac{1}{2}$	24	$3\frac{3}{8}$
6	$6\frac{1}{4}$	19	$9\frac{1}{8}-\frac{1}{16}$	7	3	22	$0\frac{5}{8}-\frac{1}{16}$	7	$11\frac{3}{4}$	24	$4\frac{1}{8}-\frac{1}{16}$
6	$6\frac{1}{2}$	19	10	7	$3\frac{1}{4}$	22	$1\frac{1}{2}$	8	0	24	5
6	$6\frac{3}{4}$	19	$10\frac{3}{4}-\frac{1}{16}$	7	$3\frac{1}{2}$	22	$2\frac{1}{4}$	8	$0\frac{1}{4}$	24	$5\frac{3}{4}$
6	7	19	$11\frac{1}{2}-\frac{1}{16}$	7	$3\frac{3}{4}$	22	3	8	$0\frac{1}{2}$	24	$6\frac{1}{2}$
6	$7\frac{1}{4}$	20	$0\frac{1}{4}-\frac{1}{16}$	7	4	22	$3\frac{3}{4}-\frac{1}{16}$	8	$0\frac{3}{4}$	24	$7\frac{1}{4}-\frac{1}{16}$
6	$7\frac{1}{2}$	20	$1\frac{1}{8}$	7	$4\frac{1}{4}$	22	$4\frac{1}{2}-\frac{1}{16}$	8	1	24	$8\frac{1}{8}$
6	$7\frac{3}{4}$	20	$1\frac{7}{8}$	7	$4\frac{1}{2}$	22	$5\frac{3}{8}$	8	$1\frac{1}{4}$	24	$8\frac{7}{8}$
6	8	20	$2\frac{5}{8}-\frac{1}{16}$	7	$4\frac{3}{4}$	22	$6\frac{1}{8}-\frac{1}{16}$	8	$1\frac{1}{2}$	24	$9\frac{5}{8}-\frac{1}{16}$
6	$8\frac{1}{4}$	20	$3\frac{1}{2}$	7	5	22	7	8	$1\frac{3}{4}$	24	$10\frac{3}{8}-\frac{1}{16}$
6	$8\frac{1}{2}$	20	$4\frac{1}{4}-\frac{1}{16}$	7	$5\frac{1}{4}$	22	$7\frac{3}{4}$	8	2	24	$11\frac{1}{8}-\frac{1}{16}$

# 220      DIAMETERS AND CIRCUMFERENCES OF

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
8	2 $\frac{1}{4}$	25	0	8	11	27	3 $\frac{1}{2}$	9	7 $\frac{3}{4}$	29	7
8	2 $\frac{1}{2}$	25	0 $\frac{3}{4}$ - $\frac{1}{16}$	8	11 $\frac{1}{4}$	27	4 $\frac{1}{4}$	9	8	29	7 $\frac{3}{4}$
8	2 $\frac{3}{4}$	25	1 $\frac{1}{2}$ - $\frac{1}{16}$	8	11 $\frac{1}{2}$	27	5 $\frac{1}{8}$	9	8 $\frac{1}{4}$	29	8 $\frac{1}{2}$ - $\frac{1}{16}$
8	3	25	2 $\frac{3}{8}$	8	11 $\frac{3}{4}$	27	5 $\frac{3}{4}$ - $\frac{1}{16}$	9	8 $\frac{1}{2}$	29	9 $\frac{1}{4}$ - $\frac{1}{16}$
8	3 $\frac{1}{4}$	25	3 $\frac{3}{8}$ - $\frac{1}{16}$	9	0	27	6 $\frac{5}{8}$	9	8 $\frac{3}{4}$	29	10 $\frac{1}{8}$
8	3 $\frac{1}{2}$	25	3 $\frac{7}{8}$ - $\frac{1}{16}$	9	0 $\frac{1}{4}$	27	7 $\frac{3}{8}$ - $\frac{1}{16}$	9	9	29	10 $\frac{7}{8}$
8	3 $\frac{3}{4}$	25	4 $\frac{5}{8}$ - $\frac{1}{16}$	9	0 $\frac{1}{2}$	27	8 $\frac{1}{8}$ - $\frac{1}{16}$	9	9 $\frac{1}{4}$	29	11 $\frac{5}{8}$ - $\frac{1}{16}$
8	4	25	5 $\frac{1}{2}$	9	0 $\frac{3}{4}$	27	9	9	9 $\frac{1}{2}$	30	0 $\frac{3}{8}$ - $\frac{1}{16}$
8	4 $\frac{1}{4}$	25	6 $\frac{1}{4}$ - $\frac{1}{16}$	9	1	27	9 $\frac{3}{4}$	9	9 $\frac{3}{4}$	30	1 $\frac{1}{4}$
8	4 $\frac{1}{2}$	25	7 $\frac{1}{8}$	9	1 $\frac{1}{4}$	27	10 $\frac{1}{2}$	9	10	30	2
8	4 $\frac{3}{4}$	25	7 $\frac{7}{8}$	9	1 $\frac{1}{2}$	27	11 $\frac{1}{4}$ - $\frac{1}{16}$	9	10 $\frac{1}{4}$	30	2 $\frac{3}{4}$ - $\frac{1}{16}$
8	5	25	8 $\frac{5}{8}$ - $\frac{1}{16}$	9	1 $\frac{3}{4}$	28	0 $\frac{1}{8}$	9	10 $\frac{1}{2}$	30	3 $\frac{5}{8}$
8	5 $\frac{1}{4}$	25	9 $\frac{3}{8}$ - $\frac{1}{16}$	9	2	28	0 $\frac{7}{8}$	9	10 $\frac{3}{4}$	30	4 $\frac{3}{8}$
8	5 $\frac{1}{2}$	25	10 $\frac{1}{8}$ - $\frac{1}{16}$	9	2 $\frac{1}{4}$	28	1 $\frac{5}{8}$ - $\frac{1}{16}$	9	11	30	5 $\frac{1}{8}$ - $\frac{1}{16}$
8	5 $\frac{3}{4}$	25	11	9	2 $\frac{1}{2}$	28	2 $\frac{1}{2}$	9	11 $\frac{1}{4}$	30	6
8	6	25	11 $\frac{3}{4}$ - $\frac{1}{16}$	9	2 $\frac{3}{4}$	28	3 $\frac{1}{4}$	9	11 $\frac{1}{2}$	30	6 $\frac{3}{4}$
8	6 $\frac{1}{4}$	26	0 $\frac{1}{2}$ - $\frac{1}{16}$	9	3	28	4	9	11 $\frac{3}{4}$	30	7 $\frac{1}{2}$
8	6 $\frac{1}{2}$	26	1 $\frac{3}{8}$	9	3 $\frac{1}{4}$	28	4 $\frac{3}{4}$	10	0	30	8 $\frac{1}{4}$ - $\frac{1}{16}$
8	6 $\frac{3}{4}$	26	2 $\frac{1}{8}$ - $\frac{1}{16}$	9	3 $\frac{1}{2}$	28	5 $\frac{5}{8}$	10	0 $\frac{1}{4}$	30	9 $\frac{1}{8}$
8	7	26	2 $\frac{7}{8}$ - $\frac{1}{16}$	9	3 $\frac{3}{4}$	28	6 $\frac{3}{8}$	10	0 $\frac{1}{2}$	30	9 $\frac{7}{8}$
8	7 $\frac{1}{4}$	26	3 $\frac{5}{8}$ - $\frac{1}{16}$	9	4	28	7 $\frac{1}{8}$ - $\frac{1}{16}$	10	0 $\frac{3}{4}$	30	10 $\frac{5}{8}$ - $\frac{1}{16}$
8	7 $\frac{1}{2}$	26	4 $\frac{1}{2}$	9	4 $\frac{1}{4}$	28	8	10	1	30	11 $\frac{3}{8}$ - $\frac{1}{16}$
8	7 $\frac{3}{4}$	26	5 $\frac{1}{4}$ - $\frac{1}{16}$	9	4 $\frac{1}{2}$	28	8 $\frac{3}{4}$	10	1 $\frac{1}{4}$	31	0 $\frac{1}{4}$
8	8	26	6 $\frac{1}{8}$	9	4 $\frac{3}{4}$	28	9 $\frac{1}{2}$	10	1 $\frac{1}{2}$	31	1
8	8 $\frac{1}{4}$	26	6 $\frac{3}{4}$ - $\frac{1}{16}$	9	5	28	10 $\frac{1}{4}$ - $\frac{1}{16}$	10	1 $\frac{3}{4}$	31	1 $\frac{3}{4}$ - $\frac{1}{16}$
8	8 $\frac{1}{2}$	26	7 $\frac{5}{8}$	9	5 $\frac{1}{4}$	28	11 $\frac{1}{8}$	10	2	31	2 $\frac{5}{8}$
8	8 $\frac{3}{4}$	26	8 $\frac{3}{8}$ - $\frac{1}{16}$	9	5 $\frac{1}{2}$	28	11 $\frac{7}{8}$	10	2 $\frac{1}{4}$	31	3 $\frac{3}{8}$
8	9	26	9 $\frac{1}{8}$ - $\frac{1}{16}$	9	5 $\frac{3}{4}$	29	0 $\frac{5}{8}$ - $\frac{1}{16}$	10	2 $\frac{1}{2}$	31	4 $\frac{1}{8}$
8	9 $\frac{1}{4}$	26	10	9	6	29	1 $\frac{1}{2}$	10	2 $\frac{3}{4}$	31	5
8	9 $\frac{1}{2}$	26	10 $\frac{3}{4}$	9	6 $\frac{1}{4}$	29	2 $\frac{1}{4}$	10	3	31	5 $\frac{3}{4}$
8	9 $\frac{3}{4}$	26	11 $\frac{1}{2}$ - $\frac{1}{16}$	9	6 $\frac{1}{2}$	29	3	10	3 $\frac{1}{4}$	31	6 $\frac{1}{2}$
8	10	27	0 $\frac{1}{4}$ - $\frac{1}{16}$	9	6 $\frac{3}{4}$	29	3 $\frac{3}{4}$ - $\frac{1}{16}$	10	3 $\frac{1}{2}$	31	7 $\frac{1}{4}$ - $\frac{1}{16}$
8	10 $\frac{1}{4}$	27	1 $\frac{1}{8}$	9	7	29	4 $\frac{5}{8}$	10	3 $\frac{3}{4}$	31	8 $\frac{1}{8}$
8	10 $\frac{1}{2}$	27	1 $\frac{7}{8}$ - $\frac{1}{16}$	9	7 $\frac{1}{4}$	29	5 $\frac{3}{8}$	10	4	31	8 $\frac{7}{8}$
8	10 $\frac{3}{4}$	27	2 $\frac{5}{8}$ - $\frac{1}{16}$	9	7 $\frac{1}{2}$	29	6 $\frac{1}{8}$ - $\frac{1}{16}$	10	4 $\frac{1}{4}$	31	9 $\frac{5}{8}$ - $\frac{1}{16}$



ANGLE-IRON RINGS (FLANGE INSIDE). 221

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
10	$4\frac{1}{2}$	31	$10\frac{3}{8}-\frac{1}{16}$	11	$1\frac{1}{4}$	34	$17\frac{7}{8}-\frac{1}{16}$	11	10	36	$5\frac{3}{8}-\frac{1}{16}$
10	$4\frac{3}{4}$	31	$11\frac{1}{4}$	11	$1\frac{1}{2}$	34	$2\frac{3}{4}$	11	$10\frac{1}{4}$	36	$6\frac{1}{4}$
10	5	32	0	11	$1\frac{3}{4}$	34	$3\frac{1}{2}$	11	$10\frac{1}{2}$	36	7
10	$5\frac{1}{4}$	32	$0\frac{3}{4}-\frac{1}{16}$	11	2	34	$4\frac{1}{4}-\frac{1}{16}$	11	$10\frac{3}{4}$	36	$7\frac{3}{4}-\frac{1}{16}$
10	$5\frac{1}{2}$	32	$1\frac{5}{8}$	11	$2\frac{1}{4}$	34	$5\frac{1}{16}$	11	11	36	$8\frac{1}{2}-\frac{1}{16}$
10	$5\frac{3}{4}$	32	$2\frac{3}{8}$	11	$2\frac{1}{2}$	34	$5\frac{7}{8}$	11	$11\frac{1}{4}$	36	$9\frac{3}{8}$
10	6	32	$3\frac{3}{8}-\frac{1}{16}$	11	$2\frac{3}{4}$	34	$6\frac{5}{8}-\frac{1}{16}$	11	$11\frac{1}{2}$	36	$10\frac{1}{8}$
10	$6\frac{1}{4}$	32	$3\frac{7}{8}-\frac{1}{16}$	11	3	34	$7\frac{3}{8}-\frac{1}{16}$	11	$11\frac{3}{4}$	36	$10\frac{7}{8}-\frac{1}{16}$
10	$6\frac{1}{2}$	32	$4\frac{3}{4}$	11	$3\frac{1}{4}$	34	$8\frac{1}{4}$	12	0	36	$11\frac{3}{4}$
10	$6\frac{3}{4}$	32	$5\frac{1}{2}$	11	$3\frac{1}{2}$	34	9	12	$0\frac{1}{4}$	37	$0\frac{1}{2}$
10	7	32	$6\frac{1}{4}-\frac{1}{16}$	11	$3\frac{3}{4}$	34	$9\frac{3}{4}-\frac{1}{16}$	12	$0\frac{1}{2}$	37	$1\frac{1}{4}-\frac{1}{16}$
10	$7\frac{1}{4}$	32	$7\frac{1}{8}$	11	4	34	$10\frac{1}{2}-\frac{1}{16}$	12	$0\frac{3}{4}$	37	$2\frac{1}{16}$
10	$7\frac{1}{2}$	32	$7\frac{7}{8}$	11	$4\frac{1}{4}$	34	$11\frac{3}{8}$	12	1	37	$2\frac{7}{8}$
10	$7\frac{3}{4}$	32	$8\frac{5}{8}-\frac{1}{16}$	11	$4\frac{1}{2}$	35	$0\frac{1}{8}$	12	$1\frac{1}{4}$	37	$3\frac{5}{8}$
10	8	32	$9\frac{3}{8}-\frac{1}{16}$	11	$4\frac{3}{4}$	35	$0\frac{7}{8}-\frac{1}{16}$	12	$1\frac{1}{2}$	37	$4\frac{3}{8}-\frac{1}{16}$
10	$8\frac{1}{4}$	32	$10\frac{1}{4}$	11	5	35	$1\frac{3}{4}$	12	$1\frac{3}{4}$	37	$5\frac{1}{4}$
10	$8\frac{1}{2}$	32	11	11	$5\frac{1}{4}$	35	$2\frac{1}{2}$	12	2	37	6
10	$8\frac{3}{4}$	32	$11\frac{3}{4}-\frac{1}{16}$	11	$5\frac{1}{2}$	35	$3\frac{1}{4}-\frac{1}{16}$	12	$2\frac{1}{4}$	37	$6\frac{3}{4}$
10	9	33	$0\frac{5}{8}$	11	$5\frac{3}{4}$	35	$4\frac{1}{16}$	12	$2\frac{1}{2}$	37	$7\frac{1}{2}-\frac{1}{16}$
10	$9\frac{1}{4}$	33	$1\frac{3}{8}$	11	6	35	$4\frac{7}{8}$	12	$2\frac{3}{4}$	37	$8\frac{3}{8}$
10	$9\frac{1}{2}$	33	$2\frac{1}{8}-\frac{1}{16}$	11	$6\frac{1}{4}$	35	$5\frac{5}{8}$	12	3	37	$9\frac{1}{8}$
10	$9\frac{3}{4}$	33	3	11	$6\frac{1}{2}$	35	$6\frac{3}{8}-\frac{1}{16}$	12	$3\frac{1}{4}$	37	$9\frac{7}{8}$
10	10	33	$3\frac{3}{4}$	11	$6\frac{3}{4}$	35	$7\frac{1}{4}$	12	$3\frac{1}{2}$	37	$10\frac{3}{4}$
10	$10\frac{1}{4}$	33	$4\frac{1}{2}$	11	7	35	8	12	$3\frac{3}{4}$	37	$11\frac{1}{2}$
10	$10\frac{1}{2}$	33	$5\frac{1}{4}-\frac{1}{16}$	11	$7\frac{1}{4}$	35	$8\frac{3}{4}-\frac{1}{16}$	12	4	38	$0\frac{1}{4}-\frac{1}{16}$
10	$10\frac{3}{4}$	33	$6\frac{1}{16}$	11	$7\frac{1}{2}$	35	$9\frac{1}{2}-\frac{1}{16}$	12	$4\frac{1}{4}$	38	$1\frac{1}{8}$
10	11	33	$6\frac{7}{8}$	11	$7\frac{3}{4}$	35	$10\frac{3}{8}$	12	$4\frac{1}{2}$	38	$1\frac{7}{8}$
10	$11\frac{1}{4}$	33	$7\frac{5}{8}-\frac{1}{16}$	11	8	35	$11\frac{1}{8}$	12	$4\frac{3}{4}$	38	$2\frac{5}{8}$
10	$11\frac{1}{2}$	33	$8\frac{3}{8}-\frac{1}{16}$	11	$8\frac{1}{4}$	35	$11\frac{7}{8}-\frac{1}{16}$	12	5	38	$3\frac{3}{8}$
10	$11\frac{3}{4}$	33	$9\frac{1}{4}$	11	$8\frac{1}{2}$	36	$0\frac{5}{8}-\frac{1}{16}$	12	$5\frac{1}{4}$	38	$4\frac{1}{8}-\frac{1}{16}$
11	0	33	10	11	$8\frac{3}{4}$	36	$1\frac{1}{2}$	12	$5\frac{1}{2}$	38	5
11	$0\frac{1}{4}$	33	$10\frac{3}{4}-\frac{1}{16}$	11	9	36	$2\frac{1}{4}-\frac{1}{16}$	12	$5\frac{3}{4}$	38	$5\frac{3}{4}-\frac{1}{16}$
11	$0\frac{1}{2}$	33	$11\frac{1}{2}-\frac{1}{16}$	11	$9\frac{1}{4}$	36	$3\frac{1}{16}$	12	6	38	$6\frac{5}{8}$
11	$0\frac{3}{4}$	34	$0\frac{3}{8}$	11	$9\frac{1}{2}$	36	$3\frac{7}{8}$	12	$6\frac{1}{4}$	38	$7\frac{3}{8}$
11	1	34	$1\frac{1}{8}-\frac{1}{16}$	11	$9\frac{3}{4}$	36	$4\frac{5}{8}$	12	$6\frac{1}{2}$	38	$8\frac{1}{8}$

DIAGONAL MEASUREMENT AT THE ROOT,  $1\frac{3}{8}$ -INCH.

Diam.		Circum.		Diam.		Circum.		Diam.		Circum.	
Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
12	$6\frac{3}{4}$	38	$8\frac{7}{8}-\frac{1}{16}$	12	$8\frac{3}{4}$	39	$3\frac{1}{4}$	12	$10\frac{3}{4}$	39	$9\frac{1}{2}$
12	7	38	$9\frac{3}{4}$	12	9	39	4	12	11	39	$10\frac{1}{4}-\frac{1}{16}$
12	$7\frac{1}{4}$	38	$10\frac{1}{2}$	12	$9\frac{1}{4}$	39	$4\frac{3}{4}-\frac{1}{16}$	12	$11\frac{1}{4}$	39	$11\frac{1}{16}$
12	$7\frac{1}{2}$	38	$11\frac{1}{4}$	12	$9\frac{1}{2}$	39	$5\frac{1}{2}-\frac{1}{16}$	12	$11\frac{1}{2}$	39	$11\frac{3}{4}-\frac{1}{16}$
12	$7\frac{3}{4}$	39	$0\frac{1}{16}$	12	$9\frac{3}{4}$	39	$6\frac{3}{8}$	12	$11\frac{3}{4}$	40	$0\frac{5}{8}$
12	8	39	$0\frac{7}{8}$	12	10	39	$7\frac{1}{8}$	13	0	40	$1\frac{3}{8}-\frac{1}{16}$
12	$8\frac{1}{4}$	39	$1\frac{5}{8}$	12	$10\frac{1}{4}$	39	$7\frac{7}{8}-\frac{1}{16}$				
12	$8\frac{1}{2}$	39	$2\frac{3}{8}-\frac{1}{16}$	12	$10\frac{1}{2}$	39	$8\frac{5}{8}-\frac{1}{16}$				

TABLE No. 6.

WEIGHT OF ONE SQUARE FOOT OF IRON,  
COPPER, AND STEEL,

FROM  $\frac{1}{16}$  INCH TO 1 INCH THICK.

TABLE No. 6.—WEIGHT OF ONE SQUARE FOOT OF  
IRON, COPPER, AND STEEL, FROM  $\frac{1}{16}$  INCH TO  
1 INCH THICK.

Thickness of Plate.	Iron.	Copper.	Steel.	Thickness of Plate.	Iron.	Copper.	Steel.
Inch. $\frac{1}{16}$	lbs. 2·5	lbs. 2·8	lbs. 2·6	Inch. $\frac{9}{16}$	lbs. 22·5	lbs. 25·8	lbs. 23·1
$\frac{1}{8}$	5	5·7	5·2	$\frac{5}{8}$	25	28·8	25·6
$\frac{3}{16}$	7·5	8·6	7·9	$\frac{11}{16}$	27·5	31·5	28·2
$\frac{1}{4}$	10	11·6	10·3	$\frac{3}{4}$	30	34·4	30·7
$\frac{5}{16}$	12·5	14·4	12·9	$\frac{13}{16}$	32·5	37·3	33·2
$\frac{3}{8}$	15	17·2	15·4	$\frac{7}{8}$	35	40·2	35·8
$\frac{7}{16}$	17·5	20·1	17·9	$\frac{15}{16}$	37·5	43·1	38·5
$\frac{1}{2}$	20	22·9	20·5	1	40	45·8	40·9

TABLE No. 7.

WEIGHT OF IRON PLATES OF ALL  
COMMON LENGTHS, BREADTHS, AND  
THICKNESSES.

FROM  $\frac{1}{16}$  TO 1 INCH IN THICKNESS, 12 INCHES TO  
48 INCHES IN BREADTH, AND 1 FOOT TO  
10 FEET 6 INCHES IN LENGTH.

TABLE No. 7.—WEIGHT OF IRON PLATES OF ALL COMMON LENGTHS, BREADTHS, AND THICKNESSES.

RULE.—To find the weight of any plate whose weight is not contained in the Table, multiply the length by the breadth, both in feet, and multiply the product by the weight of a square foot of plate of the given thickness, as given in Table No. 6. The product is the weight in pounds.

This Table will be found very useful to boiler-makers on piecework, who are paid by the hundredweight.

Breadth of Plate.	THICKNESS $\frac{1}{8}$ -INCH.											
	LENGTH IN FEET AND INCHES.											
	1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.	6 feet.	6 ft. 6 in.
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 0 2 $\frac{1}{2}$	0 0 3 $\frac{3}{4}$	0 0 5	0 0 6 $\frac{1}{4}$	0 0 7 $\frac{1}{2}$	0 0 8 $\frac{3}{4}$	0 0 10	0 0 11 $\frac{1}{4}$	0 0 12 $\frac{1}{2}$	0 0 13 $\frac{3}{4}$	0 0 15	0 0 16 $\frac{1}{4}$
15	0 0 3 $\frac{1}{4}$	0 0 4 $\frac{3}{4}$	0 0 6 $\frac{1}{4}$	0 0 7 $\frac{3}{4}$	0 0 9 $\frac{1}{2}$	0 0 11	0 0 12 $\frac{1}{2}$	0 0 14	0 0 15 $\frac{3}{4}$	0 0 17 $\frac{1}{4}$	0 0 18 $\frac{3}{4}$	0 0 20 $\frac{1}{4}$
18	0 0 3 $\frac{3}{4}$	0 0 5 $\frac{3}{4}$	0 0 7 $\frac{1}{2}$	0 0 9 $\frac{1}{2}$	0 0 11 $\frac{1}{4}$	0 0 13 $\frac{1}{4}$	0 0 15	0 0 17	0 0 18 $\frac{3}{4}$	0 0 20 $\frac{3}{4}$	0 0 22 $\frac{1}{2}$	0 0 24 $\frac{1}{2}$
21	0 0 4 $\frac{1}{2}$	0 0 6 $\frac{1}{2}$	0 0 8 $\frac{3}{4}$	0 0 11	0 0 13 $\frac{1}{4}$	0 0 15 $\frac{1}{4}$	0 0 17 $\frac{1}{2}$	0 0 19 $\frac{3}{4}$	0 0 22	0 0 24	0 0 26 $\frac{1}{4}$	0 0 28 $\frac{1}{2}$
24	0 0 5	0 0 7 $\frac{1}{2}$	0 0 10	0 0 12 $\frac{1}{2}$	0 0 15	0 0 17 $\frac{1}{2}$	0 0 20	0 0 22 $\frac{1}{2}$	0 0 25	0 0 27 $\frac{1}{2}$	0 0 30	0 0 32 $\frac{1}{2}$
27	0 0 5 $\frac{3}{4}$	0 0 8 $\frac{1}{2}$	0 0 11 $\frac{1}{4}$	0 0 14	0 0 17	0 0 19 $\frac{3}{4}$	0 0 22 $\frac{1}{2}$	0 0 25 $\frac{1}{2}$	0 0 28 $\frac{1}{4}$	0 0 31	0 0 34 $\frac{1}{2}$	0 0 38
30	0 0 6 $\frac{1}{4}$	0 0 9 $\frac{1}{2}$	0 0 12 $\frac{1}{2}$	0 0 15 $\frac{3}{4}$	0 0 18 $\frac{3}{4}$	0 0 22	0 0 25	0 0 28 $\frac{1}{4}$	0 0 31 $\frac{1}{4}$	0 0 34 $\frac{1}{2}$	0 0 38	0 0 42 $\frac{1}{2}$
33	0 0 7	0 0 10 $\frac{1}{4}$	0 0 13 $\frac{3}{4}$	0 0 17 $\frac{1}{4}$	0 0 20 $\frac{3}{4}$	0 0 24	0 0 27 $\frac{1}{2}$	0 0 31	0 0 34 $\frac{1}{2}$	0 0 38	0 0 42 $\frac{1}{2}$	0 0 47 $\frac{1}{2}$
36	0 0 7 $\frac{1}{2}$	0 0 11 $\frac{1}{4}$	0 0 15	0 0 18 $\frac{3}{4}$	0 0 22 $\frac{1}{2}$	0 0 26 $\frac{1}{4}$	0 0 30	0 0 34 $\frac{1}{2}$	0 0 39	0 0 43 $\frac{1}{2}$	0 0 48	0 0 53 $\frac{1}{2}$

WEIGHT OF PLATES.

28  
42  
32

11 3/4  
11 3/4

THICKNESS 1/8-INCH.

LENGTH IN FEET AND INCHES.

Breadth of Plate.	LENGTH IN FEET AND INCHES.											
	1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.	6 feet.	6 ft. 6 in.
in	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.	c. qrs.lbs.
12	0 0 5	0 0 7 1/2	0 0 10	0 0 12 1/2	0 0 15	0 0 17 1/2	0 0 20	0 0 22 1/2	0 0 25	0 0 27 1/2	0 1 2	0 1 4 1/2
15	0 0 6 1/4	0 0 9 1/2	0 0 12 1/2	0 0 15 1/2	0 0 18 3/4	0 0 22	0 0 25	0 0 28 1/4	0 1 3 1/4	0 1 6 1/2	0 1 9 1/2	0 1 12 1/2
18	0 0 7 1/2	0 0 11 1/4	0 0 15	0 0 18 3/4	0 0 22 1/2	0 0 26 1/4	0 1 2	0 1 5 3/4	0 1 9 1/2	0 1 13 1/4	0 1 17	0 1 20 3/4
21	0 0 8 3/4	0 0 13 1/4	0 0 17 1/2	0 0 21 3/4	0 0 26 1/4	0 1 2 1/2	0 1 7	0 1 11 1/2	0 1 15 3/4	0 1 20 1/4	0 1 24 1/2	0 2 1
24	0 0 10	0 0 15	0 0 20	0 0 25	0 1 2	0 1 7	0 1 12	0 1 17	0 1 22	0 1 27	0 2 4	0 2 9
27	0 0 11 1/4	0 0 17	0 0 22 1/2	0 0 28 1/4	0 1 5 3/4	0 1 11 1/2	0 1 17	0 1 22 3/4	0 2 0 1/4	0 2 6	0 2 11 1/2	0 2 17 1/4
30	0 0 12 1/2	0 0 18 3/4	0 0 25	0 1 3 1/4	0 1 9 1/2	0 1 15 3/4	0 1 22	0 2 0 1/4	0 2 6 1/2	0 2 12 3/4	0 2 19	0 2 25 1/4
33	0 0 13 3/4	0 0 20 3/4	0 0 27 1/2	0 1 6 1/2	0 1 13 1/4	0 1 20 1/4	0 1 27	0 2 6	0 2 12 3/4	0 2 19 1/2	0 2 26 1/2	0 3 5 1/2
36	0 0 15	0 0 22 1/2	0 1 2	0 1 9 1/2	0 1 17	0 1 24 1/2	0 2 4	0 2 11 1/2	0 2 19	0 2 26 1/2	0 3 6	0 3 13 1/2
39	0 0 16 1/4	0 0 24 1/2	0 1 4 1/2	0 1 12 1/2	0 1 20 3/4	0 2 1	0 2 9	0 2 17 1/4	0 2 25 1/4	0 3 5 1/2	0 3 13 1/2	0 3 21 1/2
42	0 0 17 1/2	0 0 26 1/4	0 1 7	0 1 15 3/4	0 1 24 1/2	0 2 5 1/4	0 2 14	0 2 22 3/4	0 3 3 1/2	0 3 12 1/4	0 3 21	0 4 1 3/4

Thickness $\frac{3}{16}$ -INCH.		LENGTH IN FEET AND INCHES.									
		1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 0 7 $\frac{1}{2}$	0 0 11 $\frac{1}{4}$	0 0 15	0 0 18 $\frac{3}{4}$	0 0 22 $\frac{1}{2}$	0 0 26 $\frac{1}{4}$	0 1 2	0 1 5 $\frac{3}{4}$	0 1 9 $\frac{1}{2}$	0 1 13 $\frac{1}{4}$	
15	0 0 9 $\frac{1}{2}$	0 0 14	0 0 18 $\frac{3}{4}$	0 0 23 $\frac{1}{2}$	0 1 0 $\frac{1}{4}$	0 1 4 $\frac{3}{4}$	0 1 9 $\frac{1}{2}$	0 1 14 $\frac{1}{4}$	0 1 19	0 1 23 $\frac{1}{2}$	
18	0 0 11 $\frac{1}{4}$	0 0 17	0 0 22 $\frac{1}{2}$	0 1 0 $\frac{1}{4}$	0 1 5 $\frac{3}{4}$	0 1 11 $\frac{1}{2}$	0 1 17	0 1 22 $\frac{3}{4}$	0 2 0 $\frac{1}{4}$	0 2 6	
21	0 0 13 $\frac{1}{4}$	0 0 19 $\frac{3}{4}$	0 0 26 $\frac{1}{4}$	0 1 4 $\frac{3}{4}$	0 1 11 $\frac{1}{2}$	0 1 18	0 1 24 $\frac{1}{2}$	0 2 3	0 2 9 $\frac{3}{4}$	0 2 16 $\frac{1}{4}$	
24	0 0 15	0 0 22 $\frac{1}{2}$	0 1 2	0 1 9 $\frac{1}{2}$	0 1 15	0 1 24 $\frac{1}{2}$	0 2 4	0 2 11 $\frac{1}{2}$	0 2 19	0 2 26 $\frac{1}{2}$	
27	0 0 17	0 0 25 $\frac{1}{4}$	0 1 5 $\frac{3}{4}$	0 1 14 $\frac{3}{4}$	0 1 22 $\frac{3}{4}$	0 2 3	0 2 11 $\frac{1}{2}$	0 2 20	0 3 0 $\frac{1}{2}$	0 3 8 $\frac{1}{2}$	
30	0 0 18 $\frac{3}{4}$	0 1 0 $\frac{1}{4}$	0 1 9 $\frac{1}{2}$	0 1 19	0 2 0 $\frac{1}{4}$	0 2 9 $\frac{3}{4}$	0 2 19	0 3 0 $\frac{1}{2}$	0 3 9 $\frac{3}{4}$	0 3 19 $\frac{1}{4}$	
33	0 0 20 $\frac{3}{4}$	0 1 3	0 1 13 $\frac{1}{4}$	0 1 23 $\frac{1}{2}$	0 2 6	0 2 16 $\frac{1}{4}$	0 2 26 $\frac{1}{2}$	0 3 8 $\frac{3}{4}$	0 3 19 $\frac{1}{4}$	1 0 1 $\frac{1}{2}$	
36	0 0 22 $\frac{1}{2}$	0 1 5 $\frac{3}{4}$	0 1 17	0 2 0 $\frac{1}{4}$	0 2 11 $\frac{1}{2}$	0 2 22 $\frac{3}{4}$	0 3 6	0 3 17 $\frac{1}{4}$	1 0 0 $\frac{1}{2}$	1 0 11 $\frac{3}{4}$	
39	0 0 24 $\frac{1}{2}$	0 1 8 $\frac{1}{2}$	0 1 20 $\frac{3}{4}$	0 2 5	0 2 17 $\frac{1}{4}$	0 3 1 $\frac{1}{4}$	0 3 13 $\frac{1}{2}$	0 3 25 $\frac{3}{4}$	1 0 10	1 0 22	
42	0 0 26 $\frac{1}{4}$	0 1 11 $\frac{1}{2}$	0 1 24 $\frac{1}{2}$	0 2 9 $\frac{3}{4}$	0 2 22 $\frac{3}{4}$	0 3 8	0 3 21	1 0 6 $\frac{1}{4}$	1 0 19 $\frac{1}{4}$	1 1 4 $\frac{1}{2}$	
45	0 1 0 $\frac{1}{4}$	0 1 14 $\frac{1}{4}$	0 2 0 $\frac{1}{4}$	0 2 14 $\frac{1}{4}$	0 3 0 $\frac{1}{2}$	0 3 14 $\frac{1}{2}$	1 0 0 $\frac{1}{2}$	1 0 14 $\frac{1}{2}$	1 1 0 $\frac{3}{4}$	1 1 14 $\frac{3}{4}$	
48	0 1 2	0 1 17	0 2 4	0 2 19	0 3 6	0 3 21	1 0 8	1 0 23	1 1 10	1 1 25	



THICKNESS,  $\frac{3}{16}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	LENGTH IN FEET AND INCHES.									
	6 feet.	6 ft. 6 in.	7 feet.	7 ft. 6 in.	8 feet.	8 ft. 6 in.	9 feet.	9 ft. 6 in.	10 feet.	10 ft. 6 in.
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 1 17	0 1 20 $\frac{3}{4}$	0 1 24 $\frac{1}{2}$	0 2 0 $\frac{1}{4}$	0 2 4	0 2 7 $\frac{3}{4}$	0 2 11 $\frac{1}{2}$	0 2 15 $\frac{1}{4}$	0 2 19	0 2 22 $\frac{3}{4}$
15	0 2 0 $\frac{1}{4}$	0 2 5	0 2 9 $\frac{3}{4}$	0 2 14 $\frac{1}{4}$	0 2 19	0 2 23 $\frac{3}{4}$	0 3 0 $\frac{1}{2}$	0 3 5	0 3 9 $\frac{3}{4}$	0 3 14 $\frac{1}{2}$
18	0 2 11 $\frac{1}{2}$	0 2 17 $\frac{1}{4}$	0 2 22 $\frac{3}{4}$	0 3 0 $\frac{1}{2}$	0 3 6	0 3 11 $\frac{3}{4}$	0 3 17 $\frac{1}{4}$	0 3 23	1 0 0 $\frac{1}{2}$	1 0 6 $\frac{1}{4}$
21	0 2 22 $\frac{3}{4}$	0 3 1 $\frac{1}{4}$	0 3 8	0 3 14 $\frac{1}{2}$	0 3 21	0 3 27 $\frac{1}{2}$	1 0 6 $\frac{1}{4}$	1 0 12 $\frac{3}{4}$	1 0 19 $\frac{1}{4}$	1 0 25 $\frac{3}{4}$
24	0 3 6	0 3 13 $\frac{1}{2}$	0 3 21	1 0 0 $\frac{1}{2}$	1 0 8	1 0 15 $\frac{1}{2}$	1 0 23	1 1 2 $\frac{1}{2}$	1 1 10	1 1 17 $\frac{1}{2}$
27	0 3 17 $\frac{1}{4}$	0 3 25 $\frac{3}{4}$	1 0 6 $\frac{1}{2}$	1 0 14 $\frac{1}{2}$	1 0 23	1 1 3 $\frac{1}{2}$	1 1 12	1 1 20	1 2 0 $\frac{3}{4}$	1 2 9 $\frac{1}{4}$
30	1 0 0 $\frac{1}{2}$	1 0 10	1 0 18 $\frac{1}{4}$	1 1 0 $\frac{3}{4}$	1 1 10	1 1 19 $\frac{1}{2}$	1 2 0 $\frac{3}{4}$	1 2 10 $\frac{1}{4}$	1 2 19 $\frac{1}{2}$	1 3 1
33	1 0 11 $\frac{3}{4}$	1 0 22	1 1 4 $\frac{1}{2}$	1 1 14 $\frac{3}{4}$	1 1 25	1 2 7 $\frac{1}{4}$	1 2 17 $\frac{3}{4}$	1 3 0	1 3 10 $\frac{1}{4}$	1 3 20 $\frac{1}{2}$
36	1 0 23	1 1 6 $\frac{1}{4}$	1 1 17 $\frac{1}{2}$	1 2 0 $\frac{3}{4}$	1 2 12	1 2 23 $\frac{1}{4}$	1 3 6 $\frac{1}{2}$	1 3 17 $\frac{3}{4}$	2 0 1	2 0 12 $\frac{1}{4}$
39	1 1 6 $\frac{1}{4}$	1 1 18 $\frac{1}{2}$	1 2 2 $\frac{3}{4}$	1 2 14 $\frac{3}{4}$	1 2 27	1 3 11 $\frac{1}{4}$	1 3 23 $\frac{1}{2}$	2 0 7 $\frac{1}{2}$	2 0 19 $\frac{3}{4}$	2 1 4
42	1 1 17 $\frac{1}{2}$	1 2 2 $\frac{3}{4}$	1 2 15 $\frac{3}{4}$	1 3 1	1 3 14	1 3 27 $\frac{1}{4}$	2 0 12 $\frac{1}{4}$	2 0 25 $\frac{1}{2}$	2 1 10 $\frac{1}{2}$	2 1 25 $\frac{3}{4}$
45	1 2 0 $\frac{3}{4}$	1 2 14 $\frac{3}{4}$	1 3 1	1 3 15	2 0 1	2 0 15	2 1 1 $\frac{1}{4}$	2 1 15 $\frac{1}{4}$	2 2 1 $\frac{1}{4}$	2 2 15 $\frac{1}{4}$
48	1 2 12	1 2 27	1 3 14	2 0 1	2 0 16	2 1 3	2 1 18	2 2 5	2 2 20	2 3 7

Breadth of Plate.		THICKNESS, $\frac{1}{4}$ -INCH.																													
		LENGTH IN FEET AND INCHES.																													
1 foot.		1 ft. 6 in.		2 feet.		2 ft. 6 in.		3 feet.		3 ft. 6 in.		4 feet.		4 ft. 6 in.		5 feet.		5 ft. 6 in.													
c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.											
12	0	0	10	0	0	15	0	0	20	0	0	25	0	1	2	0	1	7	0	1	12	0	1	17	0	1	22	0	1	27	
15	0	0	12 $\frac{1}{2}$	0	0	18 $\frac{3}{4}$	0	0	25	0	1	3 $\frac{1}{4}$	0	1	9 $\frac{1}{2}$	0	1	15 $\frac{3}{4}$	0	1	22	0	2	0 $\frac{1}{4}$	0	2	6 $\frac{1}{2}$	0	2	12 $\frac{3}{4}$	
18	0	0	15	0	0	22 $\frac{1}{2}$	0	1	2	0	1	9 $\frac{1}{2}$	0	1	17	0	1	24 $\frac{1}{2}$	0	2	4	0	2	11 $\frac{1}{2}$	0	2	19	0	2	26 $\frac{1}{2}$	
21	0	0	17 $\frac{1}{2}$	0	0	26 $\frac{1}{4}$	0	1	7	0	1	15 $\frac{3}{4}$	0	1	24 $\frac{1}{2}$	0	2	5 $\frac{1}{4}$	0	2	14	0	2	22 $\frac{3}{4}$	0	3	3 $\frac{1}{2}$	0	3	12 $\frac{1}{4}$	
24	0	0	20	0	1	2	0	1	12	0	1	22	0	2	4	0	2	14	0	2	24	0	2	3	6	0	3	16	0	3	26
27	0	0	22 $\frac{1}{2}$	0	1	5 $\frac{3}{4}$	0	1	17	0	2	0 $\frac{1}{4}$	0	2	11 $\frac{1}{2}$	0	2	22 $\frac{3}{4}$	0	3	6	0	3	17 $\frac{1}{4}$	1	0	0 $\frac{1}{2}$	1	0	11 $\frac{3}{4}$	
30	0	0	25	0	1	9 $\frac{1}{2}$	0	1	22	0	2	6 $\frac{1}{2}$	0	2	19	0	3	3 $\frac{1}{2}$	0	3	16	1	0	0 $\frac{1}{2}$	1	0	13	1	0	25 $\frac{1}{2}$	
33	0	0	27 $\frac{1}{2}$	0	1	13 $\frac{1}{4}$	0	1	27	0	2	12 $\frac{3}{4}$	0	2	26 $\frac{1}{2}$	0	3	12 $\frac{1}{4}$	0	3	26	1	0	11 $\frac{3}{4}$	1	0	11 $\frac{3}{4}$	1	0	25 $\frac{1}{2}$	
36	0	1	2	0	1	17	0	2	4	0	2	19	0	3	6	0	3	21	1	0	8	1	0	23	1	1	10	1	1	25	
39	0	1	4 $\frac{1}{2}$	0	1	20 $\frac{3}{4}$	0	2	9	0	2	25 $\frac{1}{4}$	0	3	13 $\frac{1}{2}$	1	0	1 $\frac{3}{4}$	1	0	18	1	1	6 $\frac{1}{4}$	1	1	22 $\frac{1}{2}$	1	2	10 $\frac{3}{4}$	
42	0	1	7	0	1	24 $\frac{1}{2}$	0	2	14	0	3	3 $\frac{1}{2}$	0	3	21	1	0	10 $\frac{1}{2}$	1	1	0	1	1	17 $\frac{1}{2}$	1	2	7	1	2	24 $\frac{1}{2}$	
45	0	1	9 $\frac{1}{2}$	0	2	0 $\frac{1}{4}$	0	2	19	0	3	9 $\frac{3}{4}$	1	0	0 $\frac{1}{2}$	1	0	19 $\frac{1}{4}$	1	1	10	1	1	2	0 $\frac{3}{4}$	1	2	19 $\frac{1}{2}$	1	3	10 $\frac{1}{4}$
48	0	1	12	0	2	4	0	2	24	0	3	16	1	0	8	1	1	0	1	1	20	1	1	2	12	1	3	4	1	3	24

THICKNESS,  $\frac{1}{4}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	LENGTH IN FEET AND INCHES.									
	6 feet.	6 ft. 6 in.	7 feet.	7 ft. 6 in.	8 feet.	8 ft. 6 in.	9 feet.	9 ft. 6 in.	10 feet.	10 ft. 6 in.
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 2 4	0 2 9	0 2 14	0 2 19	0 2 24	0 3 1	0 3 6	0 3 11	0 3 16	0 3 21
15	0 2 19	0 2 25 $\frac{1}{4}$	0 3 3 $\frac{1}{2}$	0 3 9 $\frac{3}{4}$	0 3 16	0 3 22 $\frac{1}{4}$	1 0 0 $\frac{1}{2}$	1 0 6 $\frac{3}{4}$	1 0 13	1 0 19 $\frac{1}{4}$
18	0 3 6	0 3 13 $\frac{1}{2}$	0 3 21	1 0 0 $\frac{1}{2}$	1 0 8	1 0 15 $\frac{1}{2}$	1 0 23	1 1 2 $\frac{1}{2}$	1 1 10	1 1 17 $\frac{1}{2}$
21	0 3 21	1 0 1 $\frac{3}{4}$	1 0 10 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 0	1 1 8 $\frac{3}{4}$	1 1 17 $\frac{1}{2}$	1 1 26 $\frac{1}{4}$	1 2 7	1 2 15 $\frac{3}{4}$
24	1 0 8	1 0 18	1 1 0	1 1 10	1 1 20	1 2 2	1 2 12	1 2 22	1 3 4	1 3 14
27	1 0 23	1 1 6 $\frac{1}{4}$	1 1 17 $\frac{1}{2}$	1 2 0 $\frac{3}{4}$	1 2 12	1 2 23 $\frac{1}{4}$	1 3 6 $\frac{1}{2}$	1 3 17 $\frac{3}{4}$	2 0 1	2 0 12 $\frac{1}{4}$
30	1 1 10	1 1 22 $\frac{1}{2}$	1 2 7	1 2 19 $\frac{1}{2}$	1 3 4	1 3 16 $\frac{1}{2}$	2 0 1	2 0 13 $\frac{1}{2}$	2 0 26	2 1 10 $\frac{1}{2}$
33	1 1 25	1 2 10 $\frac{3}{4}$	1 2 24 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$	1 3 24	2 0 9 $\frac{3}{4}$	2 0 23 $\frac{1}{2}$	2 1 9 $\frac{1}{4}$	2 1 23	2 2 8 $\frac{3}{4}$
36	1 2 12	1 2 27	1 3 14	2 0 1	2 0 16	2 1 3	2 1 18	2 2 3	2 2 20	2 3 7
39	1 2 27	1 3 15 $\frac{1}{4}$	2 0 3 $\frac{1}{2}$	2 0 19 $\frac{3}{4}$	2 1 8	2 1 24 $\frac{1}{4}$	2 2 12 $\frac{1}{2}$	2 3 0 $\frac{3}{4}$	2 3 17	3 0 5 $\frac{1}{4}$
42	1 3 14	2 0 3 $\frac{1}{2}$	2 0 21	2 1 10 $\frac{1}{2}$	2 2 0	2 2 17 $\frac{1}{2}$	2 3 7	2 3 24 $\frac{1}{2}$	3 0 14	3 1 3 $\frac{1}{2}$
45	2 0 1	2 0 19 $\frac{3}{4}$	2 1 10 $\frac{1}{2}$	2 2 1 $\frac{1}{4}$	2 2 20	2 3 10 $\frac{3}{4}$	3 0 1 $\frac{1}{2}$	3 0 20 $\frac{1}{4}$	3 1 11	3 2 1 $\frac{3}{4}$
48	2 0 16	2 1 8	2 2 0	2 2 20	2 3 12	3 0 4	3 0 24	3 1 16	3 2 8	3 3 0

Breadth of Plate.	THICKNESS, $\frac{1}{8}$ -INCH.																			
	LENGTH IN FEET AND INCHES.																			
	. 1 foot.		1 ft. 6 in.		2 feet.		2 ft. 6 in.		3 feet.		3 ft. 6 in.		4 feet.		4 ft. 6 in.		5 feet.		5 ft. 6 in.	
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 0 12 $\frac{1}{2}$	0 0 18 $\frac{3}{4}$	0 0 25	0 1 3 $\frac{1}{4}$	0 1 9 $\frac{1}{2}$	0 1 15 $\frac{3}{4}$	0 1 22	0 2 0 $\frac{1}{4}$	0 2 6 $\frac{1}{2}$	0 2 12 $\frac{3}{4}$	0 2 20	0 2 27 $\frac{1}{2}$	0 2 35	0 2 42 $\frac{1}{2}$	0 2 50	0 2 57 $\frac{1}{2}$	0 2 65	0 2 72 $\frac{1}{2}$	0 2 80	0 2 87 $\frac{1}{2}$
15	0 0 15 $\frac{3}{4}$	0 0 23 $\frac{1}{2}$	0 1 3 $\frac{1}{4}$	0 1 11	0 1 18 $\frac{3}{4}$	0 1 26 $\frac{1}{2}$	0 2 6 $\frac{1}{2}$	0 2 14 $\frac{1}{4}$	0 2 22	0 2 30	0 2 37 $\frac{1}{2}$	0 2 45	0 2 52 $\frac{1}{2}$	0 2 60	0 2 67 $\frac{1}{2}$	0 2 75	0 2 82 $\frac{1}{2}$	0 2 90	0 2 97 $\frac{1}{2}$	0 3 5
18	0 0 18 $\frac{3}{4}$	0 1 1 $\frac{1}{4}$	0 1 9 $\frac{1}{2}$	0 1 19	0 2 0 $\frac{1}{4}$	0 2 9 $\frac{3}{4}$	0 2 19	0 3 0 $\frac{1}{2}$	0 3 9	0 3 18	0 3 27	0 3 36	0 3 45	0 3 54	0 3 63	0 3 72	0 3 81	0 3 90	0 3 99	0 4 8
21	0 0 22	0 1 4 $\frac{3}{4}$	0 1 15 $\frac{3}{4}$	0 1 26 $\frac{3}{4}$	0 2 9 $\frac{3}{4}$	0 2 20 $\frac{1}{2}$	0 3 3 $\frac{1}{2}$	0 3 14 $\frac{1}{2}$	0 3 25 $\frac{1}{2}$	0 3 36	0 3 47	0 3 58	0 4 9	0 4 20	0 4 31	0 4 42	0 4 53	0 4 64	0 4 75	0 4 86
24	0 0 25	0 1 9 $\frac{1}{2}$	0 1 22	0 2 6 $\frac{1}{2}$	0 2 19	0 3 3 $\frac{1}{2}$	0 3 16	0 3 31	0 3 44	0 3 57	0 4 10	0 4 23	0 4 36	0 4 49	0 4 62	0 4 75	0 4 88	0 4 101	0 4 114	0 4 127
27	0 1 0 $\frac{1}{4}$	0 1 12 $\frac{1}{4}$	0 2 0 $\frac{1}{4}$	0 2 14 $\frac{1}{4}$	0 3 0 $\frac{1}{2}$	0 3 14 $\frac{1}{2}$	1 0 0 $\frac{1}{2}$	1 0 14 $\frac{1}{2}$	1 0 28	1 0 42	1 0 56	1 1 10	1 1 24	1 1 38	1 1 52	1 1 66	1 1 80	1 1 94	1 1 108	1 1 122
30	0 1 3 $\frac{1}{4}$	0 1 19	0 2 6 $\frac{1}{2}$	0 2 22 $\frac{1}{4}$	0 3 9 $\frac{3}{4}$	0 3 25 $\frac{1}{2}$	1 0 13	1 1 0 $\frac{3}{4}$	1 1 13 $\frac{3}{4}$	1 1 27	1 1 41	1 1 55	1 2 9	1 2 23	1 2 37	1 2 51	1 2 65	1 2 79	1 2 93	1 2 107
33	0 1 6 $\frac{1}{2}$	0 1 23 $\frac{1}{2}$	0 2 12 $\frac{3}{4}$	0 3 2	0 3 19 $\frac{1}{4}$	1 0 8 $\frac{1}{4}$	1 0 25 $\frac{1}{2}$	1 1 14 $\frac{3}{4}$	1 1 29	1 1 43	1 1 57	1 2 11	1 2 25	1 2 39	1 2 53	1 2 67	1 2 81	1 2 95	1 2 109	1 2 123
36	0 1 9 $\frac{1}{2}$	0 2 0 $\frac{1}{4}$	0 2 19	0 3 9 $\frac{3}{4}$	1 0 0 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 10	1 2 0 $\frac{3}{4}$	1 2 15	1 2 30	1 2 45	1 2 60	1 2 75	1 2 90	1 2 105	1 2 120	1 2 135	1 2 150	1 2 165	1 2 180
39	0 1 12 $\frac{3}{4}$	0 2 5	0 2 25 $\frac{1}{4}$	0 3 17 $\frac{1}{2}$	1 0 10	1 1 2 $\frac{3}{4}$	1 1 22 $\frac{1}{2}$	1 2 14 $\frac{3}{4}$	1 2 29	1 2 43	1 2 57	1 3 11	1 3 26	1 3 41	1 3 56	1 3 71	1 3 86	1 3 101	1 3 116	1 3 131
42	0 1 15 $\frac{3}{4}$	0 2 9 $\frac{3}{4}$	0 3 3 $\frac{1}{2}$	0 3 25 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 13 $\frac{1}{4}$	1 2 7	1 3 1	1 3 16	1 3 31	1 3 46	1 3 61	1 3 76	1 3 91	1 3 106	1 3 121	1 3 136	1 3 151	1 3 166	1 3 181
45	0 1 19	0 2 14 $\frac{1}{4}$	0 3 9 $\frac{3}{4}$	1 0 5 $\frac{1}{4}$	1 1 0 $\frac{3}{4}$	1 1 24	1 2 19 $\frac{1}{2}$	1 3 15	1 3 30	1 3 45	1 3 60	1 3 75	1 3 90	1 3 105	1 3 120	1 3 135	1 3 150	1 3 165	1 3 180	1 3 195
48	0 1 22	0 2 19	0 3 16	1 0 13	1 1 10	1 2 7	1 3 4	2 0 1	2 0 16	2 0 31	2 0 46	2 0 61	2 0 76	2 0 91	2 0 106	2 0 121	2 0 136	2 0 151	2 0 166	2 0 181

THICKNESS,  $\frac{1}{8}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	6 feet.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.	
	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.
in.	0	2 19	0	3 3 $\frac{1}{2}$	0	3 9 $\frac{3}{4}$	0	3 16	0	3 22 $\frac{1}{4}$	1	0 0 $\frac{1}{2}$	1	0 6 $\frac{3}{4}$	1	0 13	1	0 19 $\frac{1}{4}$
12	0	3 9 $\frac{1}{2}$	0	3 25 $\frac{1}{4}$	1	0 5 $\frac{1}{4}$	1	0 13	1	0 20 $\frac{3}{4}$	1	1 0 $\frac{1}{2}$	1	1 8 $\frac{1}{2}$	1	1 16 $\frac{1}{2}$	1	1 24 $\frac{1}{2}$
15	1	0 0 $\frac{1}{2}$	1	0 19 $\frac{1}{4}$	1	1 0 $\frac{3}{4}$	1	1 10	1	1 19 $\frac{1}{2}$	1	2 0 $\frac{3}{4}$	1	2 10 $\frac{1}{4}$	1	2 19 $\frac{1}{2}$	1	3 1
18	1	0 19 $\frac{1}{4}$	1	1 13 $\frac{1}{4}$	1	1 24	1	2 7	1	2 18	1	3 1	1	3 11 $\frac{3}{4}$	1	3 22 $\frac{3}{4}$	2	0 5 $\frac{3}{4}$
21	1	1 10	1	1 22 $\frac{1}{2}$	1	1 29 $\frac{1}{2}$	1	3 4	1	3 16 $\frac{1}{2}$	2	0 1	2	0 13 $\frac{1}{2}$	2	0 26	2	1 10 $\frac{1}{2}$
24	1	2 0 $\frac{3}{4}$	1	2 14 $\frac{3}{4}$	1	3 1	2	0 1	2	0 15	2	1 1 $\frac{1}{4}$	2	1 15 $\frac{1}{4}$	2	2 1 $\frac{1}{4}$	2	2 15 $\frac{1}{4}$
27	1	2 19 $\frac{1}{2}$	1	3 7 $\frac{1}{4}$	2	0 10 $\frac{1}{2}$	2	0 26	2	1 13 $\frac{3}{4}$	2	2 1 $\frac{1}{4}$	2	2 17	2	3 4 $\frac{1}{2}$	2	3 20 $\frac{1}{4}$
30	1	3 10 $\frac{1}{4}$	1	3 27 $\frac{1}{2}$	2	0 16 $\frac{3}{4}$	2	1 23	2	2 12 $\frac{1}{4}$	2	3 1 $\frac{1}{2}$	2	3 18 $\frac{1}{2}$	3	0 7 $\frac{3}{4}$	3	0 25
33	2	0 1	2	0 19 $\frac{3}{4}$	2	1 10 $\frac{1}{2}$	2	2 20	2	3 10 $\frac{3}{4}$	3	0 1 $\frac{1}{2}$	3	0 20 $\frac{1}{4}$	3	1 11	3	2 1 $\frac{3}{4}$
36	2	0 19 $\frac{3}{4}$	2	1 12	2	2 4 $\frac{1}{2}$	2	3 17	3	0 9 $\frac{1}{4}$	3	1 1 $\frac{3}{4}$	3	1 22	3	2 14 $\frac{1}{4}$	3	3 6 $\frac{1}{2}$
39	2	1 10 $\frac{1}{2}$	2	2 4 $\frac{1}{2}$	2	2 26 $\frac{1}{4}$	3	0 14	3	1 8	3	2 1 $\frac{3}{4}$	3	2 23 $\frac{3}{4}$	3	3 17 $\frac{1}{2}$	4	0 11 $\frac{1}{2}$
42	2	2 1 $\frac{1}{4}$	2	2 24 $\frac{3}{4}$	3	0 15 $\frac{1}{2}$	3	1 11	3	2 6 $\frac{1}{2}$	3	3 2	3	3 25 $\frac{1}{4}$	4	0 20 $\frac{3}{4}$	4	1 16 $\frac{1}{4}$
45	2	2 20	2	3 17	3	1 11	3	2 8	3	3 5	4	0 2	4	0 27	4	1 24	4	2 21

Breadth of Plate.		THICKNESS, $\frac{3}{8}$ -INCH.																	
		LENGTH IN FEET AND INCHES.																	
1 foot.		1 ft. 6 in.		2 feet.		2 ft. 6 in.		3 feet.		3 ft. 6 in.		4 feet.		4 ft. 6 in.		5 feet.		5 ft. 6 in.	
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 0 15	0 0 22 $\frac{1}{2}$	0 1 2	0 1 9 $\frac{1}{2}$	0 1 17	0 1 17	0 1 24 $\frac{1}{2}$	0 2 4	0 2 11 $\frac{1}{2}$	0 2 19	0 2 26 $\frac{1}{2}$	0 2 4	0 2 11 $\frac{1}{2}$	0 2 19	0 2 26 $\frac{1}{2}$	0 2 4	0 2 11 $\frac{1}{2}$	0 2 19	0 2 26 $\frac{1}{2}$
15	0 0 18 $\frac{3}{4}$	0 1 0	0 1 9 $\frac{1}{2}$	0 1 19	0 2 0 $\frac{1}{4}$	0 2 0 $\frac{1}{4}$	0 2 9 $\frac{1}{2}$	0 2 19	0 2 30 $\frac{1}{2}$	0 3 0 $\frac{1}{2}$	0 3 9	0 2 19	0 2 30 $\frac{1}{2}$	0 3 0 $\frac{1}{2}$	0 3 9	0 2 19	0 2 30 $\frac{1}{2}$	0 3 0 $\frac{1}{2}$	0 3 9
18	0 0 22 $\frac{1}{2}$	0 1 5 $\frac{3}{4}$	0 1 17	0 2 0 $\frac{1}{4}$	0 2 11 $\frac{1}{2}$	0 2 11 $\frac{1}{2}$	0 2 22 $\frac{3}{4}$	0 3 6	0 3 17 $\frac{1}{4}$	0 3 6	0 3 17 $\frac{1}{4}$	0 3 6	0 3 17 $\frac{1}{4}$	0 3 6	0 3 17 $\frac{1}{4}$	0 3 6	0 3 17 $\frac{1}{4}$	0 3 6	0 3 17 $\frac{1}{4}$
21	0 0 26 $\frac{1}{4}$	0 1 11 $\frac{1}{2}$	0 1 24 $\frac{1}{2}$	0 2 9 $\frac{1}{2}$	0 2 22 $\frac{3}{4}$	0 2 22 $\frac{3}{4}$	0 3 8	0 3 21	1 0 6	1 0 6	1 0 19 $\frac{1}{4}$	0 3 21	1 0 6	1 0 6	1 0 19 $\frac{1}{4}$	0 3 21	1 0 6	1 0 6	1 0 19 $\frac{1}{4}$
24	0 1 2	0 1 17	0 2 4	0 2 19	0 3 6	0 3 6	0 3 21	1 0 8	1 0 23	1 0 8	1 0 23	1 0 8	1 0 23	1 0 8	1 0 23	1 0 8	1 0 23	1 0 8	1 0 23
27	0 1 5 $\frac{3}{4}$	0 1 22 $\frac{1}{2}$	0 2 11 $\frac{1}{2}$	0 3 0 $\frac{1}{2}$	0 3 17 $\frac{1}{4}$	0 3 17 $\frac{1}{4}$	1 0 6	1 0 23	1 1 12	1 1 12	1 2 0 $\frac{3}{4}$	1 0 6	1 1 12	1 2 0 $\frac{3}{4}$	1 2 17 $\frac{1}{2}$	1 0 6	1 1 12	1 2 0 $\frac{3}{4}$	1 2 17 $\frac{1}{2}$
30	0 1 9 $\frac{1}{2}$	0 2 0 $\frac{1}{4}$	0 2 19	0 3 9 $\frac{3}{4}$	1 0 0 $\frac{1}{2}$	1 0 0 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 10	1 2 0 $\frac{3}{4}$	1 1 10	1 2 19 $\frac{1}{2}$	1 0 0 $\frac{1}{2}$	1 2 0 $\frac{3}{4}$	1 2 19 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$	1 0 0 $\frac{1}{2}$	1 2 0 $\frac{3}{4}$	1 2 19 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$
33	0 1 13 $\frac{1}{4}$	0 2 6	0 2 26 $\frac{1}{2}$	0 3 19	1 0 11 $\frac{3}{4}$	1 0 11 $\frac{3}{4}$	1 1 4 $\frac{1}{2}$	1 1 25	1 2 17 $\frac{1}{2}$	1 1 25	1 2 17 $\frac{1}{2}$	1 1 4 $\frac{1}{2}$	1 2 17 $\frac{1}{2}$	1 2 17 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$	1 1 25	1 2 17 $\frac{1}{2}$	1 2 17 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$
36	0 1 17	0 2 11 $\frac{1}{2}$	0 3 6	1 0 0 $\frac{1}{2}$	1 0 23	1 0 23	1 1 17 $\frac{1}{2}$	1 2 12	1 3 6 $\frac{1}{2}$	1 2 12	1 3 6 $\frac{1}{2}$	1 1 17 $\frac{1}{2}$	1 2 12	1 3 6 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$	1 2 12	1 3 6 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$	1 3 10 $\frac{1}{4}$
39	0 1 20 $\frac{3}{4}$	0 2 17	0 3 13 $\frac{1}{2}$	1 0 9 $\frac{3}{4}$	1 1 6 $\frac{1}{4}$	1 1 6 $\frac{1}{4}$	1 2 2 $\frac{1}{2}$	1 2 27	1 3 23 $\frac{1}{4}$	1 2 27	1 3 23 $\frac{1}{4}$	1 1 6 $\frac{1}{4}$	1 2 27	1 3 23 $\frac{1}{4}$	1 3 10 $\frac{1}{4}$	1 2 27	1 3 23 $\frac{1}{4}$	1 3 10 $\frac{1}{4}$	1 3 10 $\frac{1}{4}$
42	0 0 24 $\frac{1}{2}$	0 2 22 $\frac{3}{4}$	0 3 21	1 0 19 $\frac{1}{4}$	1 1 17 $\frac{1}{2}$	1 1 17 $\frac{1}{2}$	1 2 15 $\frac{3}{4}$	1 3 14	2 0 12 $\frac{1}{4}$	1 3 14	2 0 12 $\frac{1}{4}$	1 1 17 $\frac{1}{2}$	1 3 14	2 0 12 $\frac{1}{4}$	2 1 10 $\frac{1}{2}$	1 3 14	2 0 12 $\frac{1}{4}$	2 1 10 $\frac{1}{2}$	2 1 10 $\frac{1}{2}$
45	0 2 0 $\frac{1}{4}$	0 3 0 $\frac{1}{2}$	1 0 0 $\frac{1}{2}$	1 1 0 $\frac{1}{2}$	1 2 0 $\frac{3}{4}$	1 2 0 $\frac{3}{4}$	1 3 1	2 0 1	2 1 1	2 0 1	2 1 1	1 2 0 $\frac{3}{4}$	2 1 1	2 2 0 1	2 2 1 $\frac{1}{4}$	2 0 1	2 1 1	2 2 0 1	2 2 1 $\frac{1}{4}$
48	0 2 4	0 3 6	1 0 8	1 1 10	1 2 12	1 2 12	1 3 14	2 0 16	2 1 18	2 0 16	2 1 18	1 2 12	2 0 16	2 1 18	2 2 20	2 0 16	2 1 18	2 2 20	2 2 20

THICKNESS,  $\frac{3}{8}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.	
	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.
12	0	3 6	0	3 13 $\frac{1}{2}$	0	3 21	1	0 0 $\frac{1}{2}$	1	0 8	1	0 15 $\frac{1}{2}$	1	0 23	1	1 2 $\frac{1}{2}$	1	1 10	1	1 17 $\frac{1}{2}$
15	1	0 0 $\frac{1}{2}$	1	0 10	1	0 19 $\frac{1}{4}$	1	1 0 $\frac{1}{2}$	1	1 10	1	1 19 $\frac{1}{2}$	1	2 0 $\frac{3}{4}$	1	2 10	1	2 19 $\frac{1}{2}$	1	3 1
18	1	0 23	1	1 6 $\frac{1}{4}$	1	1 17 $\frac{1}{2}$	1	2 0 $\frac{3}{4}$	1	2 12	1	2 23 $\frac{1}{4}$	1	3 6 $\frac{1}{2}$	1	3 17 $\frac{3}{4}$	2	0 1	2	0 12 $\frac{1}{4}$
21	1	1 17 $\frac{1}{2}$	1	2 2 $\frac{1}{2}$	1	2 15 $\frac{3}{4}$	1	3 1	1	3 14	1	3 27	2	0 12 $\frac{1}{4}$	2	0 25 $\frac{1}{2}$	2	1 10 $\frac{1}{2}$	2	1 23 $\frac{1}{2}$
24	1	2 12	1	2 27	1	3 14	2	0 1	2	0 16	2	1 3	2	1 18	2	2 5	2	2 20	2	3 7
27	1	3 6 $\frac{1}{2}$	1	3 23 $\frac{1}{2}$	2	0 12 $\frac{1}{4}$	2	1 1	2	1 18	2	2 7	2	2 23 $\frac{3}{4}$	2	3 12	3	0 1 $\frac{1}{2}$	3	0 18 $\frac{1}{2}$
30	2	0 1	2	0 19 $\frac{3}{4}$	2	1 10 $\frac{1}{2}$	2	2 1 $\frac{1}{4}$	2	2 20	2	3 10 $\frac{3}{4}$	3	0 1 $\frac{1}{2}$	3	0 20 $\frac{1}{4}$	3	1 11	3	2 1 $\frac{3}{4}$
33	2	0 23 $\frac{1}{2}$	2	1 16	2	2 8 $\frac{3}{4}$	2	3 1 $\frac{1}{4}$	2	3 22	3	0 14 $\frac{1}{2}$	3	1 7 $\frac{1}{4}$	3	2 0	3	2 20 $\frac{1}{2}$	3	3 13
36	2	1 18	2	2 12 $\frac{1}{2}$	2	3 7	3	0 1 $\frac{1}{2}$	3	0 24	3	1 18 $\frac{1}{2}$	3	2 13	3	3 7 $\frac{1}{2}$	4	0 2	4	0 24 $\frac{1}{2}$
39	2	2 12 $\frac{1}{2}$	2	3 9 $\frac{3}{4}$	3	0 5 $\frac{1}{4}$	3	1 1 $\frac{1}{2}$	3	1 26	3	2 22 $\frac{1}{4}$	3	3 18 $\frac{3}{4}$	4	0 15	4	1 11 $\frac{1}{2}$	4	2 7 $\frac{3}{4}$
42	2	3 7	3	0 5 $\frac{1}{4}$	3	1 3 $\frac{1}{2}$	3	2 1 $\frac{3}{4}$	3	3 0	3	3 26 $\frac{1}{4}$	4	0 24 $\frac{1}{2}$	4	1 22 $\frac{3}{4}$	4	2 21	4	3 19 $\frac{1}{4}$
45	3	0 1 $\frac{1}{2}$	3	1 1 $\frac{1}{2}$	3	2 1 $\frac{3}{4}$	3	3 2	4	0 2	4	1 2	4	2 2 $\frac{1}{4}$	4	3 2 $\frac{1}{2}$	5	0 2 $\frac{1}{2}$	5	1 2 $\frac{1}{2}$
48	3	0 24	3	1 26	3	3 0	4	0 2	4	1 4	4	2 6	4	3 8	5	0 10	5	1 12	5	2 14

Breadth of Plate.		THICKNESS, $\frac{1}{16}$ -INCH.									
		LENGTH IN FEET AND INCHES.									
1 foot		1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.	
c. qrs. lbs.		c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	
in.	12	0 0 17 $\frac{1}{2}$	0 0 26 $\frac{1}{4}$	0 1 7	0 1 15 $\frac{3}{4}$	0 1 24 $\frac{1}{2}$	0 2 5 $\frac{1}{4}$	0 2 22 $\frac{3}{4}$	0 3 3 $\frac{1}{2}$	0 3 12 $\frac{1}{4}$	
	15	0 0 22	0 1 4 $\frac{3}{4}$	0 1 15 $\frac{3}{4}$	0 1 26 $\frac{3}{4}$	0 2 9 $\frac{3}{4}$	0 2 20 $\frac{1}{2}$	0 3 14 $\frac{1}{2}$	0 3 25 $\frac{1}{2}$	1 0 8 $\frac{1}{4}$	
	18	0 0 26 $\frac{1}{4}$	0 1 11 $\frac{1}{2}$	0 1 24 $\frac{1}{2}$	0 2 9 $\frac{3}{4}$	0 2 22 $\frac{3}{4}$	0 3 8	1 0 6 $\frac{1}{4}$	1 0 19 $\frac{1}{4}$	1 1 4 $\frac{1}{2}$	
	21	0 1 2 $\frac{3}{4}$	0 1 18	0 2 5 $\frac{1}{4}$	0 2 20 $\frac{1}{2}$	0 3 8	0 3 23	1 0 10	1 1 13 $\frac{1}{4}$	1 2 0 $\frac{1}{8}$	
	24	0 1 7	0 1 24 $\frac{1}{2}$	0 2 14	0 3 3 $\frac{1}{2}$	0 3 21	1 0 10 $\frac{1}{2}$	1 1 0	1 1 17 $\frac{1}{2}$	1 2 24 $\frac{1}{2}$	
	27	0 1 11 $\frac{1}{2}$	0 2 3	0 2 22 $\frac{3}{4}$	0 3 14 $\frac{1}{2}$	1 0 6 $\frac{1}{4}$	1 0 25 $\frac{3}{4}$	1 1 17 $\frac{1}{2}$	1 2 9	1 3 20 $\frac{1}{2}$	
	30	0 1 15 $\frac{3}{4}$	0 2 9 $\frac{3}{4}$	0 3 3 $\frac{1}{2}$	0 3 25 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 13 $\frac{1}{4}$	1 2 7	1 3 1	2 0 16 $\frac{3}{4}$	
	33	0 1 20 $\frac{1}{4}$	0 2 16 $\frac{1}{4}$	0 3 12 $\frac{1}{4}$	1 0 8 $\frac{1}{4}$	1 1 4 $\frac{1}{2}$	1 2 0 $\frac{1}{2}$	1 2 24 $\frac{1}{2}$	2 0 16 $\frac{3}{4}$	2 1 12 $\frac{1}{2}$	
	36	0 1 22 $\frac{1}{2}$	0 2 22 $\frac{3}{4}$	0 3 21	1 0 19 $\frac{1}{4}$	1 1 17 $\frac{1}{2}$	1 2 15 $\frac{3}{4}$	1 3 14	2 0 12 $\frac{1}{4}$	2 2 8 $\frac{3}{4}$	
	39	0 2 1	0 3 1 $\frac{1}{4}$	1 0 1 $\frac{3}{4}$	1 1 2 $\frac{1}{4}$	1 2 2 $\frac{3}{4}$	1 3 3	2 0 3 $\frac{1}{2}$	2 1 4	2 3 4 $\frac{3}{4}$	
	42	0 2 5 $\frac{1}{4}$	0 3 8	1 0 10 $\frac{1}{2}$	1 1 13 $\frac{1}{4}$	1 2 15 $\frac{3}{4}$	1 3 18 $\frac{1}{2}$	2 0 21	2 1 23 $\frac{3}{4}$	3 0 1	
	45	0 2 9 $\frac{3}{4}$	0 3 14 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 24	1 3 1	2 0 5 $\frac{3}{4}$	2 1 10 $\frac{1}{2}$	2 2 15 $\frac{1}{4}$	3 0 25	
	48	0 2 14	0 3 21	1 1 0	1 2 7	1 3 14	2 0 21	2 2 0	2 3 7	3 1 21	



THICKNESS,  $\frac{1}{8}$ -INCH—(continued).

Breadth of Plate.	LENGTH IN FEET AND INCHES.									
	6 feet.	6 ft. 6 in.	7 feet.	7 ft. 6 in.	8 feet.	8 ft. 6 in.	9 feet.	9 ft. 6 in.	10 feet.	10 ft. 6 in.
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 3 21	1 0 1 $\frac{3}{4}$	1 0 10 $\frac{1}{2}$	1 0 19 $\frac{1}{2}$	1 1 0	1 1 8 $\frac{3}{4}$	1 1 17 $\frac{1}{2}$	1 1 26 $\frac{1}{4}$	1 2 7	1 2 15 $\frac{3}{4}$
15	1 0 19 $\frac{1}{4}$	1 1 2	1 1 13 $\frac{1}{4}$	1 1 24	1 2 7	1 2 18	1 3 1	1 3 11 $\frac{3}{4}$	1 3 22 $\frac{3}{4}$	2 0 5 $\frac{1}{2}$
18	1 1 17 $\frac{1}{2}$	1 2 2 $\frac{3}{4}$	1 2 15 $\frac{3}{4}$	1 3 1	1 3 14	1 3 27 $\frac{1}{4}$	2 0 12 $\frac{1}{4}$	2 0 25 $\frac{1}{2}$	2 1 10 $\frac{1}{2}$	2 1 23 $\frac{3}{4}$
21	1 2 15 $\frac{3}{4}$	1 3 3	1 3 18 $\frac{1}{2}$	2 0 5 $\frac{1}{2}$	2 0 21	2 1 8 $\frac{1}{4}$	2 1 23 $\frac{3}{4}$	2 2 11	2 2 26 $\frac{1}{4}$	2 3 13 $\frac{1}{2}$
24	1 3 14	2 0 3 $\frac{1}{2}$	2 0 21	2 1 10 $\frac{1}{2}$	2 2 0	2 2 17 $\frac{1}{2}$	2 3 7	2 3 24 $\frac{1}{2}$	3 0 14	3 1 3 $\frac{1}{2}$
27	2 0 12 $\frac{1}{4}$	2 1 4	2 1 23 $\frac{3}{4}$	2 2 15 $\frac{1}{4}$	2 3 7	2 3 26 $\frac{1}{2}$	3 0 18 $\frac{1}{2}$	3 1 10	3 2 1 $\frac{3}{4}$	3 2 21 $\frac{1}{2}$
30	2 1 10 $\frac{1}{2}$	2 2 4 $\frac{1}{2}$	2 2 26 $\frac{1}{4}$	2 3 20 $\frac{1}{4}$	3 0 14	3 1 8	3 2 1 $\frac{3}{4}$	3 2 23 $\frac{3}{4}$	3 3 17 $\frac{1}{2}$	4 0 11 $\frac{1}{2}$
33	2 2 8 $\frac{3}{4}$	2 3 4 $\frac{3}{4}$	3 0 0	3 0 25	3 1 21	3 2 17	3 3 13 $\frac{1}{4}$	4 0 9 $\frac{1}{4}$	4 1 5 $\frac{1}{4}$	4 2 1 $\frac{1}{4}$
36	2 3 7	3 0 5 $\frac{1}{4}$	3 1 3 $\frac{1}{2}$	3 2 1 $\frac{3}{4}$	3 3 0	3 3 26 $\frac{1}{4}$	4 0 24 $\frac{1}{2}$	4 1 22 $\frac{3}{4}$	4 2 21	4 3 19 $\frac{1}{4}$
39	3 0 5 $\frac{1}{4}$	3 1 5 $\frac{1}{2}$	3 2 6 $\frac{1}{4}$	3 3 6 $\frac{1}{2}$	4 0 7	4 1 7 $\frac{1}{2}$	4 2 8	4 3 8 $\frac{1}{4}$	5 0 8 $\frac{3}{4}$	5 1 9
42	3 1 3 $\frac{1}{2}$	3 2 6 $\frac{1}{4}$	3 3 8 $\frac{3}{4}$	4 0 11 $\frac{1}{2}$	4 1 14	4 2 16 $\frac{3}{4}$	4 3 19 $\frac{1}{4}$	5 0 22	5 1 24 $\frac{1}{2}$	5 2 27 $\frac{1}{4}$
45	3 2 1 $\frac{3}{4}$	3 3 6 $\frac{1}{2}$	3 3 19 $\frac{1}{2}$	4 1 16 $\frac{1}{4}$	4 2 21	4 3 25 $\frac{3}{4}$	5 1 2 $\frac{3}{4}$	5 2 7 $\frac{1}{2}$	5 3 12 $\frac{1}{4}$	6 0 17
48	3 3 0	4 0 7	4 1 14	4 2 21	5 0 0	5 1 7	5 2 14	5 3 21	6 1 0	6 2 7

Breadth of Plate.	THICKNESS, $\frac{1}{2}$ -INCH.											
	LENGTH IN FEET AND INCHES.											
	1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.		
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 0 20	0 1 2	0 1 12	0 1 22	0 2 4	0 2 14	0 2 24	0 3 6	0 3 16	0 3 26	0 3 26	0 3 26
15	0 0 25	0 1 9 $\frac{1}{2}$	0 1 22	0 2 6 $\frac{1}{2}$	0 2 19	0 3 3 $\frac{1}{2}$	0 3 16	1 0 0 $\frac{1}{2}$	1 0 13	1 0 25 $\frac{1}{2}$	1 0 25 $\frac{1}{2}$	1 0 25 $\frac{1}{2}$
18	0 1 2	0 1 17	0 2 4	0 2 19	0 3 6	0 3 21	1 0 8	1 0 23	1 1 10	1 1 25	1 1 25	1 1 25
21	0 1 7	0 1 22 $\frac{1}{2}$	0 2 14	0 3 3 $\frac{1}{2}$	0 3 21	1 0 10 $\frac{1}{2}$	1 1 0	1 1 17 $\frac{1}{2}$	1 2 7	1 2 24 $\frac{1}{2}$	1 2 24 $\frac{1}{2}$	1 2 24 $\frac{1}{2}$
24	0 1 12	0 2 4	0 2 24	0 3 16	1 0 8	1 1 0	1 1 20	1 2 12	1 3 4	1 3 24	1 3 24	1 3 24
27	0 1 17	0 2 11 $\frac{1}{2}$	0 3 6	1 0 0 $\frac{1}{2}$	1 0 23	1 1 17 $\frac{1}{2}$	1 2 12	1 3 6 $\frac{1}{2}$	2 0 1	2 0 23 $\frac{1}{2}$	2 0 23 $\frac{1}{2}$	2 0 23 $\frac{1}{2}$
30	0 1 22	0 2 19	0 3 16	1 0 13	1 1 10	1 2 7	1 3 4	2 0 1	2 0 26	2 1 23	2 1 23	2 1 23
33	0 1 27	0 2 26 $\frac{1}{2}$	0 3 26	1 0 25 $\frac{1}{2}$	1 1 25	1 2 24 $\frac{1}{2}$	1 3 24	2 0 23 $\frac{1}{2}$	2 1 23	2 2 22	2 2 22	2 2 22
36	0 2 4	0 3 6	1 0 8	1 1 10	1 2 12	1 3 14	2 0 16	2 1 18	2 2 20	2 3 22	2 3 22	2 3 22
39	0 2 9	0 3 13 $\frac{1}{2}$	1 0 18	1 1 22 $\frac{1}{2}$	1 2 27	2 0 3 $\frac{1}{2}$	2 1 8	2 2 12 $\frac{1}{2}$	2 3 17	3 0 21 $\frac{1}{2}$	3 0 21 $\frac{1}{2}$	3 0 21 $\frac{1}{2}$
42	0 2 14	0 3 21	1 1 0	1 2 7	1 3 14	2 0 21	2 2 0	2 3 7	3 0 14	3 1 21	3 1 21	3 1 21
45	0 2 19	1 0 0 $\frac{1}{2}$	1 1 10	1 2 19 $\frac{1}{2}$	2 0 1	2 1 10 $\frac{1}{2}$	2 2 20	3 0 1 $\frac{1}{2}$	3 1 11	3 2 20 $\frac{1}{2}$	3 2 20 $\frac{1}{2}$	3 2 20 $\frac{1}{2}$
48	0 2 24	1 0 8	1 1 20	1 3 4	2 0 16	2 2 0	2 3 12	3 0 24	3 2 8	3 3 20	3 3 20	3 3 20

WEIGHT OF PLATES.

Breadth of Plate.		LENGTH IN FEET AND INCHES.																												
		6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.										
		c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.									
12	1	0	8	1	0	18	1	1	0	1	1	20	1	2	2	1	2	22	1	3	4	1	3	14						
15	1	1	10	1	1	22½	1	2	7	1	3	4	1	3	16½	2	0	13½	2	0	26	2	1	10½						
18	1	2	12	1	2	27	1	3	14	2	0	16	2	1	3	2	1	18	2	2	20	2	3	5						
21	1	3	14	2	0	3½	2	0	21	2	1	10½	2	2	17½	2	3	7	2	3	24½	3	0	14	3	1	3½			
24	2	0	16	2	1	8	2	2	0	2	2	20	2	3	0	4	3	0	24	3	1	16	3	2	8	3	3	0		
27	2	1	18	2	2	12½	2	3	7	3	0	1½	3	0	24	3	1	18½	3	2	13	3	3	7½	4	0	2	4	0	24½
30	2	2	20	2	3	17	3	0	14	3	1	11	3	2	8	3	3	5	4	0	2	4	0	27	4	1	24	4	2	21
33	2	3	22	3	0	21½	3	1	21	3	2	20½	3	3	20	4	0	19½	4	1	19	4	2	18½	4	3	18	5	0	17½
36	3	0	24	3	1	26	3	3	0	4	0	2	4	1	4	4	2	6	4	3	8	5	0	10	5	1	12	5	2	14
39	3	1	26	3	3	2½	4	0	7	4	1	11½	4	2	16	4	3	20½	5	0	25	5	2	1½	5	3	6	6	0	10½
42	3	3	0	4	0	7	4	1	14	4	2	21	5	0	0	5	1	7	5	2	14	5	3	21	6	1	0	6	2	7
45	4	0	2	4	1	11½	4	2	21	5	1	12	5	1	12½	6	0	3	6	1	12½	6	1	12½	6	2	22	7	0	3½
48	4	1	4	4	2	16	5	0	0	5	1	12	5	2	24	6	0	8	6	1	20	6	3	4	7	0	16	7	2	0



THICKNESS,  $\frac{9}{16}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate in.	6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.	
	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.
12	1	0 23	1	1 6 $\frac{1}{4}$	1	1 17 $\frac{1}{2}$	1	2 0 $\frac{3}{4}$	1	2 12	1	2 23 $\frac{1}{4}$	1	3 6 $\frac{1}{2}$	1	3 17 $\frac{3}{4}$	2	0 1	2	0 12 $\frac{1}{2}$
15	1	2 0 $\frac{3}{4}$	1	2 14 $\frac{3}{4}$	1	3 1	1	3 15	2	0 1	2	0 15	2	1 1 $\frac{1}{4}$	2	1 15 $\frac{1}{4}$	2	1 $\frac{1}{4}$	2	2 15 $\frac{1}{2}$
18	1	3 6 $\frac{1}{2}$	1	3 23 $\frac{1}{2}$	2	0 12 $\frac{1}{4}$	2	1 1 $\frac{1}{2}$	2	1 18	2	2 7	2	2 23 $\frac{3}{4}$	2	3 12 $\frac{3}{4}$	3	0 1 $\frac{1}{2}$	3	0 18 $\frac{1}{2}$
21	2	0 12 $\frac{1}{4}$	2	1 4	2	1 23 $\frac{3}{4}$	2	2 15 $\frac{1}{4}$	2	3 7	2	3 26 $\frac{1}{2}$	3	0 18 $\frac{1}{2}$	3	1 10	3	2 1 $\frac{3}{4}$	3	2 21 $\frac{1}{2}$
24	2	1 18	2	2 12 $\frac{1}{2}$	2	3 17	3	0 1 $\frac{1}{2}$	3	0 25	3	1 18 $\frac{1}{2}$	3	3 7 $\frac{1}{2}$	4	0 2	4	0 24 $\frac{1}{2}$	4	0 24 $\frac{1}{2}$
27	2	2 23 $\frac{3}{4}$	2	3 21	3	0 18 $\frac{1}{2}$	3	1 15 $\frac{3}{4}$	3	2 13	3	3 10 $\frac{1}{4}$	4	0 7 $\frac{3}{4}$	4	1 5	4	2 2 $\frac{1}{4}$	4	2 27 $\frac{1}{2}$
30	3	0 1 $\frac{1}{2}$	3	1 1 $\frac{3}{4}$	3	2 1 $\frac{3}{4}$	3	3 2	4	0 2	4	1 2 $\frac{1}{4}$	4	2 2 $\frac{1}{4}$	4	3 2 $\frac{1}{4}$	5	0 2 $\frac{1}{2}$	5	1 2 $\frac{3}{4}$
33	3	1 7 $\frac{1}{4}$	3	2 10 $\frac{1}{4}$	3	3 13 $\frac{1}{4}$	4	0 16	4	1 19	4	2 22	4	3 25	5	0 27 $\frac{3}{4}$	5	2 2 $\frac{3}{4}$	5	3 5 $\frac{1}{2}$
36	3	2 13	3	3 18 $\frac{3}{4}$	4	0 24 $\frac{1}{2}$	4	2 2 $\frac{1}{4}$	4	3 8	5	0 13 $\frac{3}{4}$	5	1 19 $\frac{1}{2}$	5	2 25 $\frac{1}{4}$	6	0 3	6	1 8 $\frac{3}{4}$
39	3	3 18 $\frac{3}{4}$	4	0 27 $\frac{1}{4}$	4	2 8	4	3 16 $\frac{1}{2}$	5	0 25	5	2 5 $\frac{1}{2}$	5	3 14 $\frac{1}{4}$	6	0 22 $\frac{3}{4}$	6	2 3 $\frac{1}{4}$	6	3 11 $\frac{3}{4}$
42	4	0 24 $\frac{1}{2}$	4	2 8	4	3 19 $\frac{1}{4}$	5	1 2 $\frac{3}{4}$	5	2 14	5	3 25 $\frac{1}{2}$	6	1 8 $\frac{3}{4}$	6	2 20 $\frac{1}{4}$	7	0 3 $\frac{1}{2}$	7	1 15
45	4	2 2 $\frac{1}{4}$	4	3 16 $\frac{1}{2}$	5	1 2 $\frac{3}{4}$	5	2 17	6	0 3	6	1 19 $\frac{1}{4}$	6	3 3 $\frac{1}{2}$	7	0 17 $\frac{1}{2}$	7	2 3 $\frac{3}{4}$	7	3 18
48	4	3 8	5	0 25	5	2 14	6	0 3	6	1 20	6	3 9	7	0 26	7	2 15	8	0 4	8	1 21

Breadth of Plate	THICKNESS, $\frac{5}{8}$ -INCH.													
	LENGTH IN FEET AND INCHES.													
	1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.				
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 0 25	0 1 9 $\frac{1}{2}$	0 1 22	0 2 6 $\frac{1}{2}$	0 2 19	0 3 3 $\frac{1}{2}$	0 3 16	1 0 0 $\frac{1}{2}$	1 0 13	1 0 25 $\frac{1}{2}$				
15	0 1 3 $\frac{1}{2}$	0 1 18 $\frac{3}{4}$	0 2 6 $\frac{1}{2}$	0 2 22	0 3 9 $\frac{1}{2}$	0 3 25	1 0 13	1 1 0 $\frac{1}{2}$	1 1 16 $\frac{1}{2}$	1 2 4				
18	0 1 9 $\frac{1}{2}$	0 2 0 $\frac{1}{2}$	0 2 19	0 3 9 $\frac{3}{4}$	1 0 0 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 10	1 2 0 $\frac{3}{4}$	1 2 19 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$				
21	0 1 15 $\frac{3}{4}$	0 2 9 $\frac{1}{2}$	0 3 3 $\frac{1}{2}$	0 3 25 $\frac{1}{4}$	1 0 19 $\frac{1}{4}$	1 1 13	1 2 7	1 3 0 $\frac{3}{4}$	1 3 22 $\frac{3}{4}$	2 0 16 $\frac{1}{2}$				
24	0 1 22	0 2 19	0 3 16	1 0 13	1 1 10	1 2 7	1 3 4	2 0 1	2 0 26	2 1 23				
27	0 2 0 $\frac{1}{4}$	0 3 0 $\frac{1}{4}$	1 0 0 $\frac{1}{2}$	1 1 0 $\frac{1}{2}$	1 2 0 $\frac{3}{4}$	1 3 0 $\frac{3}{4}$	2 0 1	2 1 1	2 2 1	2 3 1 $\frac{1}{4}$				
30	0 2 6 $\frac{1}{2}$	0 3 9 $\frac{3}{4}$	1 0 13	1 1 16 $\frac{1}{4}$	1 2 19 $\frac{1}{2}$	1 3 22 $\frac{3}{4}$	2 0 26	2 2 1 $\frac{1}{4}$	2 3 4 $\frac{1}{2}$	3 0 7 $\frac{3}{4}$				
33	0 2 12 $\frac{3}{4}$	0 3 19	1 0 25 $\frac{1}{2}$	1 2 3 $\frac{3}{4}$	1 3 10 $\frac{1}{4}$	2 0 16 $\frac{1}{2}$	2 1 23	2 3 1 $\frac{1}{4}$	3 0 7 $\frac{3}{4}$	3 1 14				
36	0 2 19	1 0 0 $\frac{1}{2}$	1 1 10	1 2 19 $\frac{1}{2}$	2 0 1	2 1 10 $\frac{1}{2}$	2 2 20	3 0 1 $\frac{1}{2}$	3 1 11	3 2 20 $\frac{1}{2}$				
39	0 2 25 $\frac{1}{4}$	1 0 9 $\frac{3}{4}$	1 1 22 $\frac{1}{2}$	1 3 7	2 0 19 $\frac{3}{4}$	2 2 4 $\frac{1}{4}$	2 3 17	3 1 1 $\frac{1}{2}$	3 2 14 $\frac{1}{4}$	3 3 26 $\frac{3}{4}$				
42	0 3 3 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 2 7	1 3 22 $\frac{3}{4}$	2 1 10 $\frac{1}{4}$	2 2 26 $\frac{1}{4}$	3 0 14	3 2 1 $\frac{3}{4}$	3 3 17 $\frac{1}{2}$	4 1 5 $\frac{1}{4}$				
45	0 3 9 $\frac{3}{4}$	1 1 0 $\frac{1}{2}$	1 2 19 $\frac{1}{2}$	2 0 10 $\frac{1}{4}$	2 2 1 $\frac{1}{4}$	2 3 20	3 1 11	3 3 1 $\frac{3}{4}$	4 0 20 $\frac{3}{4}$	4 2 11 $\frac{1}{2}$				
48	0 3 16	1 1 10	1 3 4	2 0 26	2 2 20	3 0 14	3 2 8	4 0 2	4 1 24	4 3 18				

THICKNESS,  $\frac{5}{8}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.	
	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.
12	1	1 10	1	1 22 $\frac{1}{2}$	1	2 7	1	2 19 $\frac{1}{2}$	1	3 4	1	3 16 $\frac{1}{2}$	2	0 1	2	0 13 $\frac{1}{2}$	2	0 26	2	1 10 $\frac{1}{2}$
15	1	2 19	1	3 7	1	3 22 $\frac{1}{2}$	2	0 10 $\frac{1}{2}$	2	0 26	2	1 13 $\frac{1}{2}$	2	2 1	2	2 17	2	3 5	2	3 21
18	2	0 1	2	0 19 $\frac{3}{4}$	2	1 10 $\frac{1}{2}$	2	2 1 $\frac{1}{4}$	2	2 20	2	3 10 $\frac{3}{4}$	3	0 1 $\frac{1}{2}$	3	0 20 $\frac{1}{4}$	3	1 11	3	2 1 $\frac{3}{4}$
21	2	1 10 $\frac{1}{2}$	2	2 4 $\frac{1}{4}$	2	2 26 $\frac{1}{4}$	2	3 20	3	0 14	3	1 7 $\frac{3}{4}$	3	2 1 $\frac{3}{4}$	3	2 23 $\frac{1}{2}$	3	3 17 $\frac{1}{2}$	4	0 11 $\frac{1}{4}$
24	2	2 20	2	3 7	3	0 14	3	1 11	3	2 8	3	3 5	4	0 2	4	0 27	4	1 24	4	2 21
27	3	0 1 $\frac{1}{2}$	3	1 1 $\frac{1}{2}$	3	2 1 $\frac{3}{4}$	3	3 1 $\frac{3}{4}$	4	0 2	4	1 2	4	2 2 $\frac{1}{4}$	4	3 2 $\frac{1}{4}$	5	0 2 $\frac{1}{2}$	5	1 2
30	3	1 11	3	2 14 $\frac{1}{4}$	3	3 17 $\frac{1}{2}$	4	0 20 $\frac{3}{4}$	4	1 24	4	2 27 $\frac{1}{4}$	5	0 2 $\frac{1}{4}$	5	1 5 $\frac{3}{4}$	5	2 9	5	3 12 $\frac{1}{4}$
33	3	2 20 $\frac{1}{2}$	3	3 26 $\frac{3}{4}$	4	1 5 $\frac{1}{4}$	4	2 11 $\frac{1}{2}$	4	3 18	5	0 24 $\frac{1}{4}$	5	2 3	5	3 9	6	0 15 $\frac{1}{2}$	6	1 21 $\frac{3}{4}$
36	4	0 2	4	1 11 $\frac{1}{2}$	4	2 21	5	0 2 $\frac{1}{2}$	5	1 12	5	2 21 $\frac{1}{2}$	6	0 3	6	1 12 $\frac{1}{2}$	6	2 22	7	0 3 $\frac{1}{2}$
39	4	1 11 $\frac{1}{2}$	4	2 24	5	0 8 $\frac{3}{4}$	5	1 21 $\frac{1}{4}$	5	3 6	6	0 18 $\frac{1}{2}$	6	2 3 $\frac{1}{4}$	6	3 15 $\frac{3}{4}$	7	1 0 $\frac{1}{2}$	7	2 13
42	4	2 21	5	0 8 $\frac{3}{4}$	5	1 24 $\frac{1}{2}$	5	3 12 $\frac{1}{4}$	6	1 0	6	2 15 $\frac{3}{4}$	7	0 3 $\frac{1}{2}$	7	1 19 $\frac{1}{4}$	7	3 7	8	0 22 $\frac{3}{4}$
45	5	0 2 $\frac{1}{2}$	5	1 21 $\frac{1}{4}$	5	3 13 $\frac{1}{4}$	6	1 3	6	2 22	7	0 12 $\frac{3}{4}$	7	2 3 $\frac{3}{4}$	7	3 22 $\frac{1}{2}$	8	1 13 $\frac{1}{2}$	8	3 4 $\frac{1}{4}$
48	5	1 12	5	3 6	6	1 0	6	2 22	7	0 16	7	2 10	8	0 4	8	1 26	8	3 20	9	1 14

Breadth of Plate.		THICKNESS, $\frac{1}{16}$ -INCH.														
		LENGTH IN FEET AND INCHES.														
		1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.					
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	
12	0 0 27 $\frac{1}{2}$	0 1 13 $\frac{1}{4}$	0 1 27	0 2 12 $\frac{3}{4}$	0 2 26 $\frac{1}{2}$	0 3 12 $\frac{1}{4}$	0 3 26	1 0 11 $\frac{3}{4}$	1 0 25 $\frac{1}{2}$	1 0 11 $\frac{3}{4}$	1 0 25 $\frac{1}{2}$	1 0 11 $\frac{3}{4}$	1 0 25 $\frac{1}{2}$	1 1 11 $\frac{1}{4}$	1 1 25 $\frac{1}{2}$	
15	0 1 6 $\frac{1}{2}$	0 1 23 $\frac{1}{2}$	0 2 12 $\frac{3}{4}$	0 3 2	0 3 19 $\frac{1}{4}$	1 0 8 $\frac{1}{4}$	1 0 25 $\frac{1}{2}$	1 1 14 $\frac{3}{4}$	1 1 28 $\frac{1}{2}$	1 1 14 $\frac{3}{4}$	1 1 28 $\frac{1}{2}$	1 1 14 $\frac{3}{4}$	1 1 28 $\frac{1}{2}$	1 2 4	1 2 21 $\frac{1}{4}$	
18	0 1 13 $\frac{1}{4}$	0 2 6	0 2 26 $\frac{1}{2}$	0 3 19 $\frac{1}{4}$	1 0 11 $\frac{3}{4}$	1 1 4 $\frac{1}{2}$	1 1 25	1 2 17 $\frac{3}{4}$	1 3 10 $\frac{1}{4}$	1 2 17 $\frac{3}{4}$	1 3 10 $\frac{1}{4}$	1 2 17 $\frac{3}{4}$	1 3 10 $\frac{1}{4}$	2 0 3	2 0 12 $\frac{3}{4}$	
21	0 1 20 $\frac{1}{4}$	0 2 16 $\frac{1}{4}$	0 3 12 $\frac{1}{4}$	1 0 8 $\frac{1}{4}$	1 1 4 $\frac{1}{2}$	1 2 0 $\frac{1}{2}$	1 2 24 $\frac{1}{2}$	1 3 20 $\frac{1}{2}$	2 0 16 $\frac{3}{4}$	1 3 20 $\frac{1}{2}$	2 0 16 $\frac{3}{4}$	1 3 20 $\frac{1}{2}$	2 0 16 $\frac{3}{4}$	2 1 12 $\frac{3}{4}$	2 1 28 $\frac{1}{2}$	
24	0 1 27	0 2 26 $\frac{1}{2}$	0 3 26	1 0 25 $\frac{1}{2}$	1 1 25	1 2 24 $\frac{1}{2}$	1 3 24	2 0 23 $\frac{1}{2}$	2 1 23	2 0 23 $\frac{1}{2}$	2 1 23	2 0 23 $\frac{1}{2}$	2 1 23	2 2 22 $\frac{1}{2}$	2 2 44 $\frac{1}{2}$	
27	0 2 6	0 3 8 $\frac{3}{4}$	1 0 11 $\frac{3}{4}$	1 1 14 $\frac{3}{4}$	1 2 17 $\frac{3}{4}$	1 3 20 $\frac{1}{2}$	2 0 23 $\frac{1}{2}$	2 1 26 $\frac{1}{4}$	2 3 1 $\frac{1}{2}$	2 1 26 $\frac{1}{4}$	2 3 1 $\frac{1}{2}$	2 1 26 $\frac{1}{4}$	2 3 1 $\frac{1}{2}$	3 0 4 $\frac{1}{4}$	3 0 14 $\frac{1}{4}$	
30	0 2 12 $\frac{3}{4}$	0 3 19 $\frac{1}{4}$	1 0 25 $\frac{1}{2}$	1 2 4	1 3 10 $\frac{1}{4}$	2 0 16 $\frac{3}{4}$	2 1 23	2 3 1 $\frac{1}{2}$	3 0 7 $\frac{3}{4}$	2 3 1 $\frac{1}{2}$	3 0 7 $\frac{3}{4}$	2 3 1 $\frac{1}{2}$	3 0 7 $\frac{3}{4}$	3 1 14 $\frac{1}{4}$	3 1 32 $\frac{1}{2}$	
33	0 2 19 $\frac{3}{4}$	1 0 1 $\frac{1}{2}$	1 1 11 $\frac{1}{4}$	1 2 21	2 0 3	2 1 12 $\frac{3}{4}$	2 2 22 $\frac{1}{2}$	3 0 4 $\frac{1}{4}$	3 1 14 $\frac{1}{4}$	3 0 4 $\frac{1}{4}$	3 1 14 $\frac{1}{4}$	3 0 4 $\frac{1}{4}$	3 1 14 $\frac{1}{4}$	3 2 24	3 2 56	
36	0 2 26 $\frac{1}{2}$	1 0 11 $\frac{3}{4}$	1 1 25	1 3 10 $\frac{1}{4}$	2 0 23 $\frac{1}{2}$	2 2 8 $\frac{3}{4}$	2 3 22	3 1 7 $\frac{1}{4}$	3 2 20 $\frac{1}{2}$	3 1 7 $\frac{1}{4}$	3 2 20 $\frac{1}{2}$	3 1 7 $\frac{1}{4}$	3 2 20 $\frac{1}{2}$	4 0 5 $\frac{3}{4}$	4 0 15 $\frac{1}{2}$	
39	0 3 5 $\frac{1}{2}$	1 0 22	1 2 10 $\frac{3}{4}$	1 3 27 $\frac{1}{4}$	2 1 16 $\frac{1}{4}$	2 3 4 $\frac{3}{4}$	3 0 21 $\frac{1}{2}$	3 2 10	3 3 27	3 2 10	3 3 27	3 2 10	3 3 27	4 1 15 $\frac{1}{2}$	4 1 36 $\frac{1}{2}$	
42	0 3 12 $\frac{1}{4}$	1 1 4 $\frac{1}{2}$	1 2 24 $\frac{1}{2}$	2 0 16 $\frac{1}{2}$	2 2 8 $\frac{3}{4}$	3 0 1	3 1 21	3 3 13 $\frac{1}{4}$	4 1 5 $\frac{1}{4}$	3 3 13 $\frac{1}{4}$	4 1 5 $\frac{1}{4}$	3 3 13 $\frac{1}{4}$	4 1 5 $\frac{1}{4}$	4 2 25 $\frac{1}{2}$	4 2 56 $\frac{1}{2}$	
45	0 3 19 $\frac{1}{4}$	1 1 14 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$	2 1 5 $\frac{3}{4}$	2 3 1 $\frac{1}{2}$	3 0 25	3 2 20 $\frac{1}{2}$	4 0 16	4 2 11 $\frac{3}{4}$	4 0 16	4 2 11 $\frac{3}{4}$	4 0 16	4 2 11 $\frac{3}{4}$	5 0 7	5 0 17	
48	0 3 26	1 1 25	1 3 24	2 1 23	2 3 20	3 1 21	3 3 20	4 1 19	4 3 18	4 1 19	4 3 18	4 1 19	4 3 18	5 1 17	5 1 38	



WEIGHT OF PLATES.

245

THICKNESS,  $\frac{1}{8}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.	
	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.
12	1	1 25	1	2 24 $\frac{1}{2}$	1	3 10 $\frac{1}{4}$	1	3 24	2	0 9 $\frac{3}{4}$	2	0 23 $\frac{1}{2}$	2	1 9 $\frac{1}{4}$	2	1 23	2	2 8 $\frac{3}{4}$	2	2 8 $\frac{3}{4}$
15	1	3 10 $\frac{1}{4}$	2	0 16 $\frac{1}{2}$	2	1 5 $\frac{3}{4}$	2	1 23	2	2 12 $\frac{1}{4}$	2	3 1 $\frac{1}{2}$	2	3 18 $\frac{1}{2}$	3	0 7 $\frac{3}{4}$	3	3 0 25	3	3 0 25
18	2	0 23 $\frac{1}{2}$	2	1 16 $\frac{1}{4}$	2	8 $\frac{3}{4}$	2	3 22	3	0 14 $\frac{3}{4}$	3	1 7 $\frac{1}{4}$	3	2 0	3	2 20 $\frac{1}{2}$	3	3 13 $\frac{1}{4}$	3	3 13 $\frac{1}{4}$
21	2	2 8 $\frac{3}{4}$	3	0 1	3	0 25	3	1 21	3	2 17	3	3 13 $\frac{1}{4}$	4	0 9 $\frac{1}{4}$	4	1 5 $\frac{1}{4}$	4	4 2 1 $\frac{1}{4}$	4	4 2 1 $\frac{1}{4}$
24	2	3 22	3	1 21	3	2 20 $\frac{1}{2}$	3	3 20	4	0 19 $\frac{1}{2}$	4	1 19	4	2 18 $\frac{1}{2}$	4	3 18	4	5 0 17 $\frac{1}{2}$	5	0 17 $\frac{1}{2}$
27	3	1 7 $\frac{1}{4}$	3	3 13 $\frac{1}{4}$	4	0 16	4	1 19	4	2 22	4	3 25	5	0 27 $\frac{3}{4}$	5	2 2 $\frac{3}{4}$	5	5 3 5 $\frac{3}{4}$	5	3 5 $\frac{3}{4}$
30	3	2 20 $\frac{1}{2}$	4	1 5 $\frac{1}{4}$	4	2 11 $\frac{3}{4}$	4	3 18	5	0 24 $\frac{1}{2}$	5	2 2 $\frac{3}{4}$	5	3 9 $\frac{1}{4}$	6	0 15 $\frac{1}{2}$	6	6 1 22	6	1 22
33	4	0 5 $\frac{3}{4}$	4	1 15 $\frac{1}{2}$	5	0 7	5	1 17	5	2 26 $\frac{3}{4}$	6	0 8 $\frac{1}{2}$	6	1 18 $\frac{1}{2}$	6	3 0 $\frac{1}{4}$	7	7 0 10	7	0 10
36	4	1 19	4	3 41 $\frac{1}{4}$	5	0 17 $\frac{1}{2}$	5	3 16	6	1 1 $\frac{1}{4}$	6	2 14 $\frac{1}{2}$	6	3 27 $\frac{3}{4}$	7	1 13	7	7 2 26 $\frac{1}{4}$	7	2 26 $\frac{1}{4}$
39	4	3 4 $\frac{1}{4}$	5	0 20 $\frac{3}{4}$	5	3 26 $\frac{1}{4}$	6	1 15	6	3 3 $\frac{3}{4}$	7	0 20 $\frac{1}{2}$	7	2 9	7	3 25 $\frac{3}{4}$	8	8 1 14 $\frac{1}{2}$	8	1 14 $\frac{1}{2}$
42	5	0 17 $\frac{1}{2}$	5	2 9 $\frac{3}{4}$	6	1 22	6	3 14	7	1 6 $\frac{1}{4}$	7	2 25 $\frac{1}{4}$	8	0 18 $\frac{1}{2}$	8	2 10 $\frac{1}{2}$	9	9 0 2 $\frac{3}{4}$	9	0 2 $\frac{3}{4}$
45	5	2 2 $\frac{3}{4}$	6	1 22	6	3 17 $\frac{1}{2}$	7	1 13	7	3 8 $\frac{1}{2}$	8	1 4 $\frac{1}{4}$	8	2 27 $\frac{3}{4}$	9	0 23 $\frac{1}{4}$	9	9 2 18 $\frac{3}{4}$	9	2 18 $\frac{3}{4}$
48	5	3 16	6	1 15	7	1 13	7	3 12	8	1 11	8	3 10	9	1 9	9	3 8	10	10 1 7	10	1 7

Breadth of Plate.	THICKNESS, $\frac{3}{8}$ -INCH.											
	LENGTH IN FEET AND INCHES.											
	1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.		
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	0 1 2	0 1 17	0 2 4	0 2 19	0 3 6	0 3 21	1 0 8	1 0 23	1 1 10	1 1 25	1 1 10	1 1 25
15	0 1 9 $\frac{1}{2}$	0 2 0 $\frac{1}{4}$	0 2 19	0 3 9 $\frac{3}{4}$	1 0 0 $\frac{1}{2}$	1 0 19 $\frac{1}{4}$	1 1 10	1 2 0 $\frac{3}{4}$	1 2 19 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$	1 2 19 $\frac{1}{2}$	1 3 10 $\frac{1}{4}$
18	0 1 17	0 2 11 $\frac{1}{2}$	0 3 6	1 0 0 $\frac{1}{2}$	1 0 23	1 1 17 $\frac{1}{2}$	1 2 12	1 3 6 $\frac{1}{2}$	2 0 1	2 0 13 $\frac{1}{2}$	2 0 1	2 0 13 $\frac{1}{2}$
21	0 1 24 $\frac{1}{2}$	0 2 23	0 3 21	1 0 19	1 1 17 $\frac{1}{2}$	1 2 16	1 3 14	2 0 12	2 1 10 $\frac{1}{2}$	2 2 9	2 0 12	2 2 9
24	0 2 4	0 3 6	1 0 8	1 1 10	1 2 12	1 3 14	2 0 16	2 1 18	2 2 20	2 3 22	2 1 18	2 2 20
27	0 2 11 $\frac{1}{2}$	0 3 17	1 0 23	1 2 1	1 3 6 $\frac{1}{2}$	2 0 12	2 1 18	2 2 24	3 0 1 $\frac{1}{2}$	3 1 7	2 2 24	3 0 1 $\frac{1}{2}$
30	0 2 19	1 0 0 $\frac{1}{2}$	1 1 10	1 2 19 $\frac{1}{2}$	2 0 1	2 1 10 $\frac{1}{2}$	2 2 20	3 0 1 $\frac{1}{2}$	3 1 11	3 2 20 $\frac{1}{2}$	3 0 1 $\frac{1}{2}$	3 2 20 $\frac{1}{2}$
33	0 2 26 $\frac{1}{2}$	1 0 12	1 1 25	1 3 10	2 0 23 $\frac{1}{2}$	2 2 8 $\frac{3}{4}$	2 3 22	3 1 7	3 2 20 $\frac{1}{2}$	4 0 5 $\frac{3}{4}$	3 1 7	3 2 20 $\frac{1}{2}$
36	0 3 6	1 0 23	1 2 12	2 0 1	2 1 18	2 3 7	3 0 24	3 2 13	4 0 2	4 1 19	3 2 13	4 0 2
39	0 3 13 $\frac{1}{2}$	1 1 6	1 2 27	2 0 19 $\frac{3}{4}$	2 2 12 $\frac{1}{2}$	3 0 5	3 1 26	3 3 18 $\frac{3}{4}$	4 1 11 $\frac{1}{2}$	4 3 4	3 3 18 $\frac{3}{4}$	4 1 11 $\frac{1}{2}$
42	0 3 21	1 1 17 $\frac{1}{2}$	1 3 14	2 1 10 $\frac{1}{2}$	2 3 7	3 1 3 $\frac{1}{2}$	3 3 0	4 0 24 $\frac{1}{2}$	4 2 21	5 0 17	4 0 24 $\frac{1}{2}$	4 2 21
45	1 0 0 $\frac{1}{2}$	1 2 0 $\frac{1}{2}$	2 0 1	2 2 1	3 0 1 $\frac{1}{2}$	3 2 2	4 0 2	4 2 2	5 0 2 $\frac{1}{2}$	5 2 3	4 2 2	5 0 2 $\frac{1}{2}$
48	1 0 8	1 2 12	2 0 16	2 2 20	3 0 24	3 3 0	4 1 4	4 3 8	5 1 12	5 3 16	4 3 8	5 1 12

THICKNESS,  $\frac{3}{4}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.	
	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.	c.	qrs. lbs.
12	1	2 12	1	2 27	1	3 14	2	0 1	2	0 16	2	1 3	2	1 18	2	2 5	2	2 20	2	3 7
15	2	0 1	2	0 19 $\frac{3}{4}$	2	1 10 $\frac{1}{2}$	2	2 1 $\frac{1}{4}$	2	2 20	2	3 10 $\frac{3}{4}$	3	0 1 $\frac{1}{2}$	3	0 20 $\frac{1}{4}$	3	1 11	3	2 1 $\frac{3}{4}$
18	2	1 18	2	2 12 $\frac{1}{2}$	2	3 7	3	0 1 $\frac{1}{2}$	3	0 24	3	1 18 $\frac{1}{2}$	3	2 13	3	3 7 $\frac{1}{2}$	4	0 2	4	0 24 $\frac{1}{2}$
21	2	3 7	3	0 5	3	1 3 $\frac{1}{2}$	3	2 2	3	3 0	3	3 26	4	0 24 $\frac{1}{2}$	4	1 23	4	2 21	4	3 19
24	3	0 24	3	1 26	3	3 0	4	0 2	4	1 4	4	2 6	4	3 8	5	0 10	5	1 12	5	2 14
27	3	2 13	3	3 19	4	0 24 $\frac{1}{2}$	4	2 2	4	3 8	5	0 14	5	1 19 $\frac{1}{2}$	5	2 24	6	0 3	6	1 9
30	4	0 2	4	1 11 $\frac{1}{2}$	4	2 21	5	0 2 $\frac{1}{2}$	5	1 2	5	2 21 $\frac{1}{2}$	6	0 3	6	1 12 $\frac{1}{2}$	6	2 22	7	0 3 $\frac{1}{2}$
33	4	1 19	4	3 4	5	0 17 $\frac{1}{2}$	5	2 2 $\frac{3}{4}$	5	3 16	6	1 1	6	2 14 $\frac{1}{2}$	7	0 0	7	1 3	7	2 26
36	4	3 8	5	0 25	5	2 14	6	0 3	6	1 2	6	3 9	7	0 26	7	2 15	8	0 4	8	1 21
39	5	0 25	5	2 17 $\frac{3}{4}$	6	0 10 $\frac{1}{2}$	6	2 3	6	3 24	7	1 16 $\frac{3}{4}$	7	3 9 $\frac{1}{2}$	8	1 2	8	2 23	9	0 15 $\frac{3}{4}$
42	5	2 14	6	0 10 $\frac{1}{2}$	6	2 7	7	0 3 $\frac{1}{2}$	7	2 0	7	3 24 $\frac{1}{2}$	8	1 21	8	3 17	9	1 14	9	3 10
45	6	0 3	6	2 3	7	0 3 $\frac{1}{2}$	7	2 4	8	0 4	8	2 4	9	0 4	9	2 4	9	2 4	10	0 5
48	6	1 20	6	3 24	7	2 0	8	0 4	8	2 8	9	0 12	9	2 16	10	0 20	10	2 24	11	1 0

Breadth of Plate.		THICKNESS, $\frac{1}{8}$ -INCH.																													
		LENGTH IN FEET AND INCHES.																													
1 foot.		1 ft. 6 in.		2 feet.		2 ft. 6 in.		3 feet.		3 ft. 6 in.		4 feet.		4 ft. 6 in.		5 feet.		5 ft. 6 in.													
c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.											
12	0	1	7	0	1	24 $\frac{1}{2}$	0	2	14	0	3	3 $\frac{1}{2}$	0	3	21	1	0	10 $\frac{1}{2}$	1	1	17 $\frac{1}{2}$	1	2	7	1	2	24 $\frac{1}{2}$				
15	0	1	15 $\frac{3}{4}$	0	2	9 $\frac{1}{2}$	0	3	3 $\frac{1}{2}$	0	3	25 $\frac{1}{4}$	1	0	19 $\frac{1}{4}$	1	1	13	1	1	3	0 $\frac{3}{4}$	1	3	22 $\frac{3}{4}$	2	0	16 $\frac{1}{2}$			
18	0	1	24 $\frac{1}{2}$	0	2	22 $\frac{3}{4}$	0	3	21	1	0	19 $\frac{1}{4}$	1	1	17 $\frac{1}{2}$	1	2	15 $\frac{3}{4}$	1	3	14	2	0	12 $\frac{1}{2}$	2	1	10 $\frac{1}{2}$	2	2	8 $\frac{3}{4}$	
21	0	2	5 $\frac{1}{4}$	0	3	7 $\frac{3}{4}$	1	0	10 $\frac{1}{2}$	1	1	13	1	2	15 $\frac{3}{4}$	1	3	18 $\frac{1}{4}$	2	0	21	2	1	23 $\frac{1}{2}$	2	2	26 $\frac{1}{4}$	3	0	0 $\frac{3}{4}$	
24	0	2	14	0	3	21	1	1	0	1	2	7	1	3	14	2	2	21	2	2	0	2	3	7	3	0	14	3	1	21	
27	0	2	22 $\frac{3}{4}$	1	0	6	1	1	17	1	3	0 $\frac{3}{4}$	2	0	12 $\frac{1}{4}$	2	1	23 $\frac{1}{2}$	2	3	7	3	0	18 $\frac{1}{4}$	3	2	1 $\frac{3}{4}$	3	3	13	
30	0	3	3 $\frac{1}{2}$	1	0	19 $\frac{1}{4}$	1	2	7	1	3	22 $\frac{3}{4}$	2	1	10 $\frac{1}{2}$	2	2	26 $\frac{1}{4}$	3	0	14	3	2	1 $\frac{3}{4}$	3	3	17 $\frac{1}{2}$	4	1	5 $\frac{1}{4}$	
33	0	3	12 $\frac{1}{4}$	1	1	4 $\frac{1}{4}$	1	2	24 $\frac{1}{2}$	1	2	16 $\frac{1}{2}$	2	2	8 $\frac{3}{4}$	2	3	0	0 $\frac{3}{4}$	3	1	21	3	3	13	4	1	5 $\frac{1}{4}$	4	2	25 $\frac{1}{4}$
36	0	3	21	1	1	17 $\frac{1}{2}$	1	3	14	2	1	10 $\frac{1}{2}$	2	3	7	3	1	3 $\frac{1}{2}$	3	3	0	4	0	24	4	2	21	5	0	17 $\frac{1}{2}$	
39	1	0	1 $\frac{3}{4}$	1	2	2 $\frac{1}{2}$	2	0	3 $\frac{1}{2}$	2	2	4 $\frac{1}{4}$	3	0	5 $\frac{1}{4}$	3	2	6	4	0	7	4	2	7 $\frac{3}{4}$	5	0	8 $\frac{3}{4}$	5	2	9 $\frac{1}{2}$	
42	1	0	10 $\frac{1}{2}$	1	2	15 $\frac{3}{4}$	2	0	21	2	2	26 $\frac{1}{4}$	3	1	3 $\frac{1}{2}$	3	3	8 $\frac{3}{4}$	4	1	14	4	3	19 $\frac{1}{4}$	5	1	24 $\frac{1}{2}$	6	0	1 $\frac{3}{4}$	
45	1	0	19 $\frac{1}{4}$	1	3	0 $\frac{3}{4}$	2	1	10 $\frac{1}{2}$	2	3	20	3	2	1 $\frac{3}{4}$	3	4	0	11 $\frac{1}{4}$	4	2	21	5	1	2 $\frac{1}{2}$	5	3	12 $\frac{1}{4}$	6	1	21 $\frac{3}{4}$
48	1	1	0	1	3	14	2	2	0	3	0	14	3	3	0	4	1	14	5	0	0	5	2	14	6	1	0	6	3	14	

THICKNESS,  $\frac{7}{8}$ -INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate.	6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		9 ft. 6 in.		10 feet.		10 ft. 6 in.	
	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.
12	1	3 14	2	0 3 $\frac{1}{2}$	2	0 21	2	1 10 $\frac{1}{2}$	2	2 0	2	2 17 $\frac{1}{2}$	2	3 7	2	3 24 $\frac{1}{2}$	3	0 14	3	1 3 $\frac{1}{2}$
15	2	1 10 $\frac{1}{2}$	2	2 4 $\frac{1}{2}$	2	2 26 $\frac{1}{4}$	2	3 20	3	0 14	3	1 7 $\frac{3}{4}$	3	2 1 $\frac{3}{4}$	3	2 23 $\frac{1}{2}$	3	3 17 $\frac{1}{2}$	4	0 11 $\frac{1}{4}$
18	2	3 7	3	0 5 $\frac{1}{4}$	3	1 3 $\frac{1}{2}$	3	2 1 $\frac{3}{4}$	3	3 0	3	3 26 $\frac{1}{4}$	4	0 24 $\frac{1}{2}$	4	1 22 $\frac{3}{4}$	4	2 21	4	3 19 $\frac{1}{4}$
21	3	1 3 $\frac{1}{2}$	3	2 6	3	3 8 $\frac{3}{4}$	4	0 11 $\frac{1}{4}$	4	1 14	4	2 16 $\frac{1}{2}$	4	3 19 $\frac{1}{4}$	5	0 21 $\frac{3}{4}$	5	1 24 $\frac{1}{2}$	5	2 27
24	3	3 0	4	0 7	4	1 14	4	2 21	5	0 0	5	1 7	5	2 14	5	3 21	6	1 0	6	2 7
27	4	0 24 $\frac{1}{2}$	4	2 7 $\frac{3}{4}$	4	3 19 $\frac{1}{4}$	5	1 2 $\frac{1}{2}$	5	2 14	5	3 25 $\frac{1}{4}$	6	1 8 $\frac{3}{4}$	6	2 20	7	0 3 $\frac{1}{2}$	7	1 14 $\frac{3}{4}$
30	4	2 21	5	0 8 $\frac{3}{4}$	5	1 24 $\frac{1}{2}$	5	3 12 $\frac{1}{4}$	6	1 0	6	2 15 $\frac{3}{4}$	7	0 3 $\frac{1}{2}$	7	1 19 $\frac{1}{4}$	7	3 7	8	0 22 $\frac{3}{4}$
33	5	0 17 $\frac{1}{2}$	5	2 9 $\frac{1}{2}$	6	0 1 $\frac{3}{4}$	6	1 21 $\frac{3}{4}$	6	3 14	7	1 6	7	2 26 $\frac{1}{4}$	8	0 18 $\frac{1}{4}$	8	2 10 $\frac{1}{4}$	9	0 2 $\frac{1}{2}$
36	5	2 14	6	0 10 $\frac{1}{2}$	6	2 7	7	0 3 $\frac{1}{2}$	7	2 0	7	3 24 $\frac{1}{2}$	8	1 21	8	3 17 $\frac{1}{2}$	9	1 14	9	3 10
39	6	0 10 $\frac{1}{2}$	6	2 11 $\frac{1}{4}$	7	0 12 $\frac{1}{4}$	7	2 13	8	0 14	8	2 14 $\frac{3}{4}$	9	0 15	9	2 16	10	0 17 $\frac{1}{2}$	10	2 18 $\frac{1}{4}$
42	6	2 7	7	0 12	7	2 17 $\frac{1}{2}$	8	0 22 $\frac{3}{4}$	8	3 0	9	1 5	9	3 10 $\frac{1}{2}$	10	1 15 $\frac{3}{4}$	10	3 21	11	1 26 $\frac{1}{4}$
45	7	0 3 $\frac{1}{2}$	7	2 13	8	0 22 $\frac{3}{4}$	8	3 4 $\frac{1}{4}$	9	1 14	9	3 23 $\frac{1}{2}$	10	2 5 $\frac{1}{4}$	11	0 14 $\frac{3}{4}$	11	2 24 $\frac{1}{2}$	12	1 6
48	7	2 0	8	0 14	8	3 0	9	1 14	10	0 0	10	2 14	11	1 0	11	3 14	12	2 0	13	0 14

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Breadth of Plate.		THICKNESS, 1-INCH.											
		LENGTH IN FEET AND INCHES.											
		1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.		
c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.		
12	0 1 12	0 2 4	0 2 24	0 3 16	1 0 8	1 1 0	1 1 0	1 1 20	1 2 12	1 3 4	1 3 4	1 3 24	
15	0 1 22	0 2 19	0 3 16	1 0 13	1 1 10	1 2 7	1 3 4	2 0 16	2 1 18	2 2 20	2 0 26	2 1 23	
18	0 2 4	0 3 6	1 0 8	1 1 10	1 2 12	1 3 14	2 0 21	2 2 0	2 3 7	3 0 14	2 2 20	2 3 22	
21	0 2 14	0 3 21	1 1 0	1 2 7	1 3 14	2 0 21	2 2 0	2 3 12	3 0 24	3 2 8	3 0 14	3 1 21	
24	0 2 24	1 0 8	1 1 20	1 3 4	2 0 16	2 2 0	2 3 7	3 0 24	3 2 13	4 0 2	3 2 8	3 3 20	
27	0 3 6	1 0 23	1 2 12	2 0 1	2 1 18	2 3 7	3 0 14	3 2 8	4 0 2	4 1 24	4 0 2	4 1 19	
30	0 3 16	1 1 10	1 3 4	2 0 26	2 2 20	3 0 14	3 2 8	4 1 24	4 0 2	4 1 24	4 1 24	4 3 18	
33	0 3 26	1 1 25	1 3 24	2 1 23	2 3 22	3 1 21	3 2 8	4 1 24	4 1 19	4 3 18	4 3 18	5 1 17	
36	1 0 8	1 2 12	2 0 16	2 2 20	3 0 24	3 3 0	4 1 4	4 2 16	5 0 25	5 1 12	5 1 12	5 3 16	
39	1 0 18	1 2 27	2 1 8	2 3 17	3 1 26	4 0 7	4 2 16	5 0 0	5 2 14	6 1 1	5 3 6	6 1 15	
42	1 1 0	1 3 14	2 2 0	3 0 14	3 3 0	4 1 14	5 0 0	5 1 12	6 0 3	6 1 1	6 1 1	6 3 14	
45	1 1 10	2 0 1	2 2 20	3 1 11	4 0 2	4 2 21	5 1 12	6 0 3	6 1 20	7 0 16	6 2 22	7 1 13	
48	1 1 20	2 0 16	2 3 12	3 2 8	4 1 4	5 0 0	5 2 24	6 1 20	7 0 16	7 0 16	7 0 16	7 3 12	

THICKNESS, 1-INCH—(continued).

LENGTH IN FEET AND INCHES.

Breadth of Plate	LENGTH IN FEET AND INCHES.									
	6 feet.	6 ft. 6 in.	7 feet.	7 ft. 6 in.	8 feet.	8 ft. 6 in.	9 feet.	9 ft. 6 in.	10 feet.	10 ft. 6 in.
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
12	2 0 16	2 1 8	2 2 0	2 2 20	2 3 12	3 0 4	3 0 24	3 1 16	3 2 8	3 3 0
15	2 2 20	2 3 17	3 0 14	3 1 11	3 2 8	3 3 5	4 0 2	4 0 27	4 1 24	4 2 21
18	3 0 24	3 1 26	3 3 0	4 0 2	4 1 4	4 2 6	4 3 8	5 0 10	5 1 12	5 2 14
21	3 3 0	4 0 7	4 1 14	4 2 21	5 0 0	5 1 7	5 2 14	5 3 21	6 1 0	6 2 7
24	4 1 4	4 2 16	5 0 0	5 1 12	5 2 24	6 0 8	6 1 20	6 3 4	7 0 16	7 2 0
27	4 3 8	5 0 25	5 2 14	6 0 3	6 1 20	6 3 9	7 0 26	7 2 15	8 0 4	8 1 21
30	5 1 12	5 3 6	6 1 0	6 2 22	7 0 16	7 2 10	8 0 4	8 1 26	8 3 20	9 1 14
33	5 3 16	6 1 15	6 3 14	7 1 13	7 3 12	8 1 11	8 3 10	9 1 9	9 3 8	10 1 7
36	6 1 20	6 3 24	7 2 0	8 0 4	8 2 8	9 0 12	9 2 16	10 0 20	10 2 24	11 1 0
39	6 3 24	7 2 5	8 0 14	8 2 23	9 1 4	9 3 13	10 1 22	11 0 3	11 2 12	12 0 21
42	7 2 0	8 0 14	8 3 0	9 1 14	10 0 0	10 2 14	11 1 0	11 3 14	12 2 0	13 0 14
45	8 0 4	8 2 23	9 1 14	10 0 5	10 2 24	11 1 15	12 0 6	12 2 25	13 1 16	14 0 7
48	8 2 8	9 1 4	10 0 0	10 2 24	11 1 20	12 0 16	12 3 12	13 2 8	14 1 4	15 0 0





TABLE No. 8.

WEIGHT OF CIRCULAR PLATES FOR  
BOILER ENDS.



TABLE No. 8.—WEIGHT OF CIRCULAR PLATES.

RULE.—Square the diameter in feet, and multiply the product by '7854 to find the area in square feet. Then multiply the area thus found by the weight of a square foot of plate of the same thickness as the plate whose weight is required, given in Table No. 6.

This Table is useful for getting the weight of boiler ends.

Thickness.	DIAMETER IN FEET AND INCHES.									
	1 foot.	1 ft. 6 in.	2 feet.	2 ft. 6 in.	3 feet.	3 ft. 6 in.	4 feet.	4 ft. 6 in.	5 feet.	5 ft. 6 in.
$\frac{1}{16}$	c. qrs. lbs. 0 0	c. qrs. lbs. 0 0	c. qrs. lbs. 0 0	c. qrs. lbs. 0 0	c. qrs. lbs. 0 0	c. qrs. lbs. 0 0	c. qrs. lbs. 0 1	c. qrs. lbs. 0 1	c. qrs. lbs. 0 1	c. qrs. lbs. 0 2
$\frac{1}{8}$	c. qrs. lbs. 0 4	c. qrs. lbs. 0 8	c. qrs. lbs. 0 15	c. qrs. lbs. 0 24	c. qrs. lbs. 0 40	c. qrs. lbs. 0 60	c. qrs. lbs. 0 84	c. qrs. lbs. 0 112	c. qrs. lbs. 0 144	c. qrs. lbs. 0 180
$\frac{3}{16}$	c. qrs. lbs. 0 6	c. qrs. lbs. 0 13	c. qrs. lbs. 0 23	c. qrs. lbs. 0 36	c. qrs. lbs. 0 54	c. qrs. lbs. 0 81	c. qrs. lbs. 0 112	c. qrs. lbs. 0 144	c. qrs. lbs. 0 180	c. qrs. lbs. 0 225
$\frac{1}{4}$	c. qrs. lbs. 0 7	c. qrs. lbs. 0 17	c. qrs. lbs. 0 32	c. qrs. lbs. 0 51	c. qrs. lbs. 0 76	c. qrs. lbs. 0 108	c. qrs. lbs. 0 144	c. qrs. lbs. 0 180	c. qrs. lbs. 0 225	c. qrs. lbs. 0 270
$\frac{5}{16}$	c. qrs. lbs. 0 10	c. qrs. lbs. 0 22	c. qrs. lbs. 0 41	c. qrs. lbs. 0 62	c. qrs. lbs. 0 87	c. qrs. lbs. 0 117	c. qrs. lbs. 0 152	c. qrs. lbs. 0 192	c. qrs. lbs. 0 237	c. qrs. lbs. 0 292
$\frac{3}{8}$	c. qrs. lbs. 0 11	c. qrs. lbs. 0 26	c. qrs. lbs. 0 49	c. qrs. lbs. 0 74	c. qrs. lbs. 0 104	c. qrs. lbs. 0 139	c. qrs. lbs. 0 180	c. qrs. lbs. 0 225	c. qrs. lbs. 0 270	c. qrs. lbs. 0 325
$\frac{7}{16}$	c. qrs. lbs. 0 13	c. qrs. lbs. 0 30	c. qrs. lbs. 0 57	c. qrs. lbs. 0 87	c. qrs. lbs. 0 122	c. qrs. lbs. 0 162	c. qrs. lbs. 0 207	c. qrs. lbs. 0 257	c. qrs. lbs. 0 312	c. qrs. lbs. 0 372
$\frac{1}{2}$	c. qrs. lbs. 0 15	c. qrs. lbs. 0 34	c. qrs. lbs. 0 65	c. qrs. lbs. 0 102	c. qrs. lbs. 0 144	c. qrs. lbs. 0 192	c. qrs. lbs. 0 246	c. qrs. lbs. 0 306	c. qrs. lbs. 0 372	c. qrs. lbs. 0 444
$\frac{5}{8}$	c. qrs. lbs. 0 17	c. qrs. lbs. 0 39	c. qrs. lbs. 0 75	c. qrs. lbs. 0 114	c. qrs. lbs. 0 159	c. qrs. lbs. 0 210	c. qrs. lbs. 0 267	c. qrs. lbs. 0 330	c. qrs. lbs. 0 399	c. qrs. lbs. 0 474
$\frac{3}{4}$	c. qrs. lbs. 0 19	c. qrs. lbs. 0 43	c. qrs. lbs. 0 83	c. qrs. lbs. 0 126	c. qrs. lbs. 0 174	c. qrs. lbs. 0 228	c. qrs. lbs. 0 288	c. qrs. lbs. 0 354	c. qrs. lbs. 0 426	c. qrs. lbs. 0 504
$\frac{7}{8}$	c. qrs. lbs. 0 21	c. qrs. lbs. 0 48	c. qrs. lbs. 0 93	c. qrs. lbs. 0 141	c. qrs. lbs. 0 192	c. qrs. lbs. 0 246	c. qrs. lbs. 0 306	c. qrs. lbs. 0 372	c. qrs. lbs. 0 444	c. qrs. lbs. 0 522
$\frac{15}{16}$	c. qrs. lbs. 0 23	c. qrs. lbs. 0 53	c. qrs. lbs. 0 101	c. qrs. lbs. 0 153	c. qrs. lbs. 0 207	c. qrs. lbs. 0 264	c. qrs. lbs. 0 324	c. qrs. lbs. 0 390	c. qrs. lbs. 0 462	c. qrs. lbs. 0 540
$1''$	c. qrs. lbs. 0 25	c. qrs. lbs. 0 58	c. qrs. lbs. 0 111	c. qrs. lbs. 0 168	c. qrs. lbs. 0 228	c. qrs. lbs. 0 291	c. qrs. lbs. 0 357	c. qrs. lbs. 0 426	c. qrs. lbs. 0 498	c. qrs. lbs. 0 576

Thickness.	DIAMETER IN FEET AND INCHES.																				
	6 feet.		6 ft. 6 in.		7 feet.		7 ft. 6 in.		8 feet.		8 ft. 6 in.		9 feet.		10 feet.		11 feet.		12 feet.		
	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	
$\frac{1}{16}$	0 2	$14\frac{3}{4}$	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
$\frac{3}{8}$	1 1	$1\frac{1}{2}$	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
$\frac{1}{16}$	1 3	16	2 0	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
$\frac{1}{4}$	2 2	$2\frac{3}{4}$	2 3	24	3 3	$21\frac{3}{4}$	4 1	$26\frac{3}{4}$	—	—	—	—	—	—	—	—	—	—	—	—	—
$\frac{5}{16}$	3 0	17 $\frac{1}{2}$	3 2	22	4 3	$20\frac{1}{4}$	5 2	$12\frac{1}{4}$	—	—	—	—	—	—	—	—	—	—	—	—	—
$\frac{3}{8}$	3 1	10	4 1	$21\frac{3}{4}$	5 3	$18\frac{3}{4}$	6 2	26	6 1	$9\frac{1}{2}$	7 0	11	—	—	—	—	—	—	—	—	—
$\frac{1}{8}$	4 1	19	5 0	$20\frac{3}{4}$	6 3	17	7 3	$11\frac{3}{4}$	7 2	$11\frac{1}{4}$	8 2	2	10 2	2 1	$2\frac{1}{4}$	14 3	$10\frac{3}{4}$	17 2	19	—	—
$\frac{1}{2}$	5 0	$5\frac{1}{2}$	5 3	$19\frac{1}{2}$	6 3	$13\frac{1}{2}$	7 3	$15\frac{1}{2}$	8 3	$25\frac{1}{4}$	10 0	12	11 1	17 12	3 3	15 3	3 19	0 10	22 2	$24\frac{1}{2}$	—
$\frac{1}{16}$	5 2	$20\frac{1}{4}$	6 2	$18\frac{1}{2}$	7 2	$25\frac{3}{4}$	8 3	14	10 0	12	11 1	17	12 2	$18\frac{3}{4}$	14 0	22 17	2 2	21 0	$23\frac{1}{2}$	25 0	$27\frac{1}{2}$
$\frac{3}{8}$	6 1	$6\frac{3}{4}$	7 1	$17\frac{1}{2}$	8 2	10	9 3	$12\frac{1}{4}$	11 0	$24\frac{1}{2}$	12 2	$18\frac{3}{4}$	14 0	22 17	2 2	21 0	$23\frac{1}{2}$	25 0	$27\frac{1}{2}$	3 4	—
$\frac{1}{16}$	6 3	$21\frac{1}{2}$	8 0	$16\frac{1}{2}$	9 1	$22\frac{1}{4}$	10 3	$12\frac{3}{4}$	12 1	$8\frac{3}{4}$	13 3	$20\frac{3}{4}$	15 2	$13\frac{1}{4}$	19 1	$3\frac{3}{4}$	23 1	$9\frac{1}{4}$	27 3	4	—
$\frac{3}{4}$	7 2	$8\frac{1}{4}$	8 3	$15\frac{1}{2}$	10 1	$6\frac{1}{2}$	11 3	$9\frac{1}{4}$	13 1	$23\frac{3}{4}$	15 0	$22\frac{1}{2}$	17 0	$4\frac{1}{4}$	21 0	4	25 1	23	30 1	5	—
$\frac{1}{16}$	8 0	$22\frac{3}{4}$	9 2	$14\frac{1}{4}$	11 0	$18\frac{1}{2}$	12 3	$7\frac{1}{2}$	14 2	$9\frac{1}{2}$	16 1	$24\frac{1}{4}$	18 1	$23\frac{1}{4}$	22 3	$4\frac{1}{4}$	27 2	$8\frac{1}{2}$	32 3	7	—
$\frac{7}{8}$	8 3	$9\frac{1}{2}$	10 1	$13\frac{1}{4}$	12 0	$2\frac{3}{4}$	13 3	$6\frac{1}{4}$	15 2	$23\frac{1}{4}$	17 2	$26\frac{1}{4}$	19 3	14	24 2	$4\frac{3}{4}$	29 2	22	$35\frac{1}{4}$	10 $\frac{1}{4}$	—
$\frac{1}{16}$	9 1	$24\frac{1}{4}$	11 0	$12\frac{1}{4}$	12 3	15	14 3	$4\frac{1}{2}$	16 3	$8\frac{3}{4}$	19 0	$0\frac{1}{4}$	21 1	$5\frac{1}{4}$	26 1	5	31 3	$7\frac{1}{2}$	38 1	27	—
1	10 0	11	11 3	$11\frac{1}{4}$	13 2	$27\frac{1}{4}$	15 3	3	17 3	$22\frac{1}{2}$	20 1	$2\frac{1}{4}$	22 2	$24\frac{1}{4}$	28 0	$5\frac{1}{2}$	33 3	21	40 1	16	—

TABLE No 9.

WEIGHT OF COPPER PLATES.

TABLE No. 10.

WEIGHT OF STEEL PLATES.



TABLE No. 9.—WEIGHT OF COPPER PLATES.

RULE.—Multiply the number of square feet in the plate by the weight of one square foot for the given thickness, in Table No. 6.

		SQUARE FEET.								
Thickness.		1	2	3	4	5	6	7	8	9
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
$\frac{5}{16}$	0 0 14 $\frac{1}{2}$	0 1 0 $\frac{3}{4}$	0 1 15 $\frac{1}{4}$	0 2 1 $\frac{1}{2}$	0 2 16	0 3 2 $\frac{1}{2}$	0 3 16	1 0 3 $\frac{1}{4}$	1 0 17 $\frac{1}{2}$	
$\frac{3}{8}$	0 0 17 $\frac{1}{4}$	0 1 6 $\frac{1}{2}$	0 1 23 $\frac{1}{2}$	0 2 12 $\frac{3}{4}$	0 3 2	0 3 19 $\frac{1}{4}$	1 0 8 $\frac{1}{2}$	1 0 25 $\frac{1}{2}$	1 1 14 $\frac{3}{4}$	
$\frac{1}{16}$	0 0 20	0 1 12 $\frac{1}{4}$	0 2 4 $\frac{1}{4}$	0 2 24 $\frac{1}{4}$	0 3 16 $\frac{1}{2}$	1 0 8 $\frac{1}{2}$	1 1 0 $\frac{3}{4}$	1 1 20 $\frac{3}{4}$	1 2 13	
$\frac{1}{2}$	0 0 23	0 1 18	0 2 13	0 3 8	1 0 3	1 0 26	1 1 21	1 2 16	1 3 11	

		SQUARE FEET.								
Thickness.		10	11	12	13	14	15	16	17	18
in.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
$\frac{5}{16}$	1 1 4	1 1 18 $\frac{1}{2}$	1 2 4 $\frac{3}{4}$	1 2 19 $\frac{1}{4}$	1 3 5 $\frac{1}{2}$	1 3 20	2 0 6 $\frac{1}{2}$	2 0 20 $\frac{3}{4}$	2 1 7 $\frac{1}{4}$	
$\frac{3}{8}$	1 2 4	1 2 21 $\frac{1}{4}$	1 3 10 $\frac{1}{4}$	1 3 27 $\frac{1}{2}$	2 0 16 $\frac{3}{4}$	2 1 3	2 1 23 $\frac{1}{4}$	2 2 12 $\frac{1}{2}$	2 3 1 $\frac{1}{2}$	
$\frac{1}{16}$	1 3 5	1 3 25	2 0 17 $\frac{1}{4}$	2 1 9 $\frac{1}{4}$	2 2 1 $\frac{1}{2}$	2 2 21	2 3 13 $\frac{1}{2}$	3 0 5 $\frac{3}{4}$	3 0 25 $\frac{3}{4}$	
$\frac{1}{2}$	2 0 6	2 1 1	2 1 24	2 2 19	2 3 14	3 0 9	3 1 4	3 1 27	3 2 22	

TABLE No. 10.—WEIGHT OF STEEL PLATES.

		SQUARE FEET.								
Thickness.		1	2	3	4	5	6	7	8	9
in.		c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
$\frac{1}{4}$		0 0 10 $\frac{1}{4}$	0 0 20 $\frac{1}{2}$	0 1 3	0 1 13 $\frac{1}{4}$	0 1 23 $\frac{1}{2}$	0 2 5 $\frac{3}{4}$	0 2 16	0 2 26 $\frac{1}{2}$	0 3 8 $\frac{3}{4}$
$\frac{5}{16}$		0 0 13	0 0 25 $\frac{3}{4}$	0 1 10 $\frac{3}{4}$	0 1 23 $\frac{1}{2}$	0 2 8 $\frac{1}{2}$	0 2 21 $\frac{1}{2}$	0 3 6 $\frac{1}{4}$	0 3 19 $\frac{1}{4}$	1 0 4
$\frac{3}{8}$		0 0 15 $\frac{1}{2}$	0 1 2 $\frac{3}{4}$	0 1 18 $\frac{1}{4}$	0 2 5 $\frac{1}{2}$	0 2 21	0 3 8 $\frac{1}{2}$	0 3 23 $\frac{3}{4}$	1 0 11 $\frac{1}{4}$	1 0 26 $\frac{1}{2}$
$\frac{7}{16}$		0 0 18	0 1 7 $\frac{3}{4}$	0 1 25 $\frac{3}{4}$	0 2 15 $\frac{1}{2}$	0 3 5 $\frac{1}{2}$	0 3 23 $\frac{1}{2}$	1 0 13 $\frac{1}{4}$	1 1 3 $\frac{1}{4}$	1 1 21
$\frac{1}{2}$		0 0 20 $\frac{1}{2}$	0 1 13	0 2 5 $\frac{1}{2}$	0 2 26	0 3 18 $\frac{1}{2}$	1 0 11	1 1 3 $\frac{1}{2}$	1 1 24	1 2 16 $\frac{1}{2}$
		SQUARE FEET.								
Thickness.		10	11	12	13	14	15	16	17	18
in.		c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
$\frac{1}{4}$		0 3 19	1 0 1 $\frac{1}{4}$	1 0 11 $\frac{1}{2}$	1 0 22	1 1 4 $\frac{1}{4}$	1 1 14 $\frac{1}{2}$	1 1 24 $\frac{3}{4}$	1 2 7	1 2 17 $\frac{1}{2}$
$\frac{5}{16}$		1 0 17	1 1 2	1 1 14 $\frac{3}{4}$	1 1 27 $\frac{3}{4}$	1 2 12 $\frac{1}{2}$	1 2 25 $\frac{1}{2}$	1 3 10 $\frac{1}{2}$	1 3 23 $\frac{1}{4}$	2 0 8 $\frac{1}{4}$
$\frac{3}{8}$		1 1 14	1 2 1 $\frac{1}{2}$	1 2 16 $\frac{3}{4}$	1 3 4 $\frac{1}{4}$	1 3 19 $\frac{1}{2}$	2 0 7	2 0 22 $\frac{1}{2}$	2 1 9 $\frac{3}{4}$	2 1 25 $\frac{1}{4}$
$\frac{7}{16}$		1 2 11	1 3 1	1 3 18 $\frac{3}{4}$	2 0 8 $\frac{3}{4}$	2 0 26 $\frac{1}{2}$	2 1 16 $\frac{1}{2}$	2 2 6 $\frac{1}{2}$	2 2 24 $\frac{1}{4}$	2 3 14 $\frac{1}{4}$
$\frac{1}{2}$		1 3 9	2 0 1 $\frac{1}{2}$	2 0 22	2 1 14 $\frac{1}{2}$	2 2 7	2 2 27 $\frac{1}{2}$	2 3 20	3 0 12 $\frac{1}{2}$	3 1 5



TABLE No. 11.

WEIGHT OF ROUND BAR-IRON.

TABLE No. 11.—WEIGHT OF ROUND BAR-IRON.

RULE.—Multiply the square of the diameter by 2.62. The product is the weight in lbs. of one foot. The weights in the Table are given to the nearest  $\frac{1}{4}$  lb. The Table is useful for finding the weight of stay-rods in boilers.

Diameter. Inches.	LENGTH IN FEET.										
	1	2	3	4	5	6	7	8	9	10	
$\frac{3}{4}$	0 0	1 $\frac{1}{2}$	0 3	0 4 $\frac{1}{2}$	0 6	0 7 $\frac{1}{4}$	0 8 $\frac{3}{4}$	0 10 $\frac{1}{4}$	0 11 $\frac{3}{4}$	0 13 $\frac{1}{4}$	0 14 $\frac{3}{4}$
$\frac{7}{8}$	0 0	2 0	0 4	0 6	0 8	0 10	0 12	0 14	0 16	0 18	0 20
1	0 0	2 $\frac{3}{4}$	0 5 $\frac{1}{4}$	0 7 $\frac{3}{4}$	0 10 $\frac{1}{2}$	0 13	0 15 $\frac{3}{4}$	0 18 $\frac{1}{4}$	0 21	0 23 $\frac{1}{2}$	0 26 $\frac{1}{4}$
1 $\frac{1}{8}$	0 0	3 $\frac{1}{4}$	0 6 $\frac{1}{2}$	0 9 $\frac{1}{2}$	0 13 $\frac{1}{4}$	0 16 $\frac{1}{2}$	0 20	0 23 $\frac{3}{4}$	0 26 $\frac{1}{2}$	0 1 2 0	1 5 $\frac{1}{4}$
1 $\frac{1}{4}$	0 0	4 0	0 8 $\frac{1}{4}$	0 12 $\frac{1}{4}$	0 16 $\frac{3}{4}$	0 20 $\frac{1}{2}$	0 24 $\frac{1}{2}$	1 0 $\frac{1}{2}$	1 4 $\frac{3}{4}$	0 1 8 $\frac{3}{4}$	1 13
1 $\frac{3}{8}$	0 0	5 0	0 10	0 15	0 19 $\frac{3}{4}$	0 24 $\frac{3}{4}$	0 1 2 $\frac{3}{4}$	1 6 $\frac{1}{2}$	1 11 $\frac{1}{2}$	0 1 18 $\frac{1}{2}$	1 21 $\frac{1}{2}$
1 $\frac{1}{2}$	0 0	5 $\frac{3}{4}$	0 11 $\frac{3}{4}$	0 17 $\frac{3}{4}$	0 23 $\frac{1}{2}$	0 1 1 $\frac{1}{2}$	1 7 $\frac{1}{4}$	1 13 $\frac{1}{4}$	1 19	0 1 25	0 2 3
1 $\frac{5}{8}$	0 0	7 0	0 13 $\frac{3}{4}$	0 20 $\frac{3}{4}$	0 27 $\frac{3}{4}$	0 1 6 $\frac{1}{2}$	1 13 $\frac{1}{2}$	1 20 $\frac{1}{2}$	1 27 $\frac{1}{4}$	0 2 7	0 2 13 $\frac{1}{4}$
1 $\frac{3}{4}$	0 0	8 0	0 16	0 24	0 1 4	1 12	1 20	2 0	2 8	0 2 16 $\frac{1}{4}$	0 2 24 $\frac{1}{4}$
1 $\frac{7}{8}$	0 0	9 $\frac{1}{4}$	0 18 $\frac{1}{2}$	0 27 $\frac{1}{2}$	1 8 $\frac{3}{4}$	1 18	1 27 $\frac{1}{2}$	2 8 $\frac{1}{2}$	2 17 $\frac{1}{2}$	0 2 26 $\frac{3}{4}$	0 3 8 $\frac{1}{4}$
2	0 0	10 $\frac{1}{2}$	0 21	1 3 $\frac{1}{2}$	1 13	1 24 $\frac{1}{2}$	2 6 $\frac{3}{4}$	2 17 $\frac{1}{4}$	2 27 $\frac{3}{4}$	0 3 10 $\frac{1}{4}$	0 3 21
2 $\frac{1}{8}$	0 0	11 $\frac{3}{4}$	0 23 $\frac{1}{2}$	1 7 $\frac{1}{2}$	1 19 $\frac{1}{4}$	2 3	2 15	2 26 $\frac{3}{4}$	3 10 $\frac{1}{2}$	0 3 22 $\frac{1}{2}$	0 6 $\frac{1}{2}$
2 $\frac{1}{4}$	0 0	13 $\frac{1}{4}$	0 26 $\frac{1}{2}$	1 11 $\frac{3}{4}$	1 25	2 10 $\frac{1}{4}$	2 23 $\frac{1}{2}$	3 8 $\frac{3}{4}$	3 22	1 0 7 $\frac{1}{4}$	0 20 $\frac{3}{4}$
2 $\frac{3}{8}$	0 0	14 $\frac{3}{4}$	1 1 $\frac{1}{2}$	1 16 $\frac{1}{4}$	2 3	2 17 $\frac{3}{4}$	3 4 $\frac{1}{2}$	3 19 $\frac{1}{4}$	4 0 6	1 0 21	1 1 8
2 $\frac{1}{2}$	0 0	16 $\frac{1}{2}$	1 4 $\frac{3}{4}$	2 10 $\frac{1}{2}$	2 10 $\frac{1}{2}$	2 25 $\frac{1}{2}$	3 14 $\frac{1}{4}$	0 2 $\frac{1}{2}$	1 0 19	1 1 7 $\frac{1}{4}$	1 1 24
2 $\frac{5}{8}$	0 0	18	1 8	2 16	2 16 $\frac{1}{4}$	3 6 $\frac{1}{4}$	0 3 24 $\frac{1}{4}$	0 14 $\frac{1}{4}$	1 1 4 $\frac{1}{4}$	1 1 21 $\frac{1}{4}$	1 2 12 $\frac{1}{2}$
2 $\frac{3}{4}$	0 0	19 $\frac{3}{4}$	1 11 $\frac{1}{2}$	2 3 $\frac{1}{2}$	3 15	1 0 6 $\frac{1}{4}$	0 6 $\frac{1}{4}$	0 26 $\frac{1}{4}$	1 18 $\frac{1}{2}$	1 1 20 $\frac{1}{4}$	1 3 2 $\frac{1}{4}$
2 $\frac{7}{8}$	0 0	21 $\frac{1}{2}$	1 15 $\frac{1}{2}$	2 9	3 24 $\frac{1}{4}$	1 0 17 $\frac{3}{4}$	0 17 $\frac{3}{4}$	1 11 $\frac{1}{4}$	2 5	1 2 26 $\frac{3}{4}$	1 3 20

TABLE No. 12.

WEIGHT OF SQUARE BAR-IRON.

TABLE No. 12.—WEIGHT OF SQUARE BAR-IRON.

RULE.—Multiply the sectional area in inches by 3.33. The product is the weight, in lbs, of one foot. The weights in the Table are given to the nearest  $\frac{1}{4}$  lb. The Table is useful for finding the weight of foundation-rings, fire-door-rings, &c., in locomotive boilers and donkey boilers.

Side of Square. Inches.	LENGTH IN FEET.															
	1	2	3	4	5	6	7	8	9	10						
$\frac{3}{4}$	0 0	0 3 $\frac{3}{4}$	0 0	0 7 $\frac{1}{2}$	0 0	0 9 $\frac{1}{2}$	0 0	0 11 $\frac{1}{4}$	0 0	0 13	0 0	0 15	0 0	0 17	0 0	0 18 $\frac{3}{4}$
$\frac{7}{8}$	0 0	0 2 $\frac{1}{2}$	0 0	0 10 $\frac{1}{4}$	0 0	0 12 $\frac{3}{4}$	0 0	0 15 $\frac{1}{4}$	0 0	0 17 $\frac{3}{4}$	0 0	0 20 $\frac{1}{2}$	0 0	0 23	0 0	0 25 $\frac{1}{2}$
1	0 0	0 3 $\frac{1}{4}$	0 0	0 13 $\frac{1}{4}$	0 0	0 16 $\frac{1}{2}$	0 0	0 20	0 0	0 23 $\frac{1}{4}$	0 0	0 26 $\frac{1}{2}$	0 0	1 2	0 0	1 5 $\frac{1}{4}$
1 $\frac{1}{8}$	0 0	0 4 $\frac{1}{4}$	0 0	0 16 $\frac{3}{4}$	0 0	0 21	0 0	0 25 $\frac{1}{4}$	0 0	1 1 $\frac{1}{2}$	0 0	1 5 $\frac{3}{4}$	0 0	1 10	0 0	1 14 $\frac{1}{4}$
1 $\frac{1}{4}$	0 0	0 5 $\frac{1}{4}$	0 0	0 20 $\frac{1}{4}$	0 0	0 26	0 0	1 3 $\frac{1}{4}$	0 0	1 8 $\frac{1}{2}$	0 0	1 13 $\frac{1}{2}$	0 0	1 18 $\frac{3}{4}$	0 0	2 4
1 $\frac{3}{8}$	0 0	0 6 $\frac{1}{4}$	0 0	0 25 $\frac{1}{4}$	0 0	1 3 $\frac{1}{2}$	0 0	1 9 $\frac{3}{4}$	0 0	1 16	0 0	1 22 $\frac{1}{2}$	0 0	2 0 $\frac{3}{4}$	0 0	2 7
1 $\frac{1}{2}$	0 0	0 7 $\frac{1}{2}$	0 0	0 22 $\frac{1}{2}$	0 0	1 9 $\frac{1}{2}$	0 0	1 17	0 0	1 24 $\frac{1}{2}$	0 0	2 4	0 0	2 11 $\frac{1}{2}$	0 0	2 19
1 $\frac{5}{8}$	0 0	0 8 $\frac{3}{4}$	0 0	0 26 $\frac{1}{2}$	0 0	1 7 $\frac{3}{4}$	0 0	1 16	0 0	1 24 $\frac{3}{4}$	0 0	2 5 $\frac{1}{2}$	0 0	2 23 $\frac{1}{4}$	0 0	3 4
1 $\frac{3}{4}$	0 0	0 10 $\frac{1}{4}$	0 0	1 2 $\frac{3}{4}$	0 0	1 12 $\frac{3}{4}$	0 0	1 23	0 0	2 5 $\frac{1}{4}$	0 0	2 15 $\frac{1}{2}$	0 0	3 7 $\frac{3}{4}$	0 0	3 18
1 $\frac{7}{8}$	0 0	0 11 $\frac{1}{4}$	0 0	1 18 $\frac{3}{4}$	0 0	1 7	0 0	1 18 $\frac{3}{4}$	0 0	2 2 $\frac{1}{2}$	0 0	2 14 $\frac{1}{2}$	0 0	3 21 $\frac{1}{2}$	0 0	4 5
2	0 0	0 13 $\frac{1}{4}$	0 0	1 25 $\frac{1}{4}$	0 0	1 12	0 0	2 19 $\frac{1}{4}$	0 0	3 6 $\frac{1}{4}$	0 0	3 22 $\frac{1}{2}$	0 0	4 8	0 0	5 1 $\frac{1}{4}$
2 $\frac{1}{8}$	0 0	0 15	0 0	1 17	0 0	1 17	0 0	2 11 $\frac{1}{2}$	0 0	3 0 $\frac{1}{4}$	0 0	3 17 $\frac{1}{4}$	0 0	4 6	0 0	5 10 $\frac{1}{2}$
2 $\frac{1}{4}$	0 0	0 16 $\frac{3}{4}$	0 0	1 22 $\frac{1}{2}$	0 0	1 22 $\frac{1}{2}$	0 0	3 10	0 0	4 0 $\frac{3}{4}$	0 0	4 19 $\frac{1}{2}$	0 0	5 1	0 0	6 2 $\frac{3}{4}$
2 $\frac{3}{8}$	0 0	0 18 $\frac{3}{4}$	0 0	1 19 $\frac{1}{4}$	0 0	2 0 $\frac{1}{2}$	0 0	3 20	0 0	4 12 $\frac{3}{4}$	0 0	5 1	0 0	6 19 $\frac{1}{4}$	0 0	8 12
2 $\frac{1}{2}$	0 0	0 20 $\frac{3}{4}$	0 0	2 27 $\frac{1}{4}$	0 0	2 6 $\frac{1}{2}$	0 0	3 20	0 0	5 12 $\frac{3}{4}$	0 0	6 26 $\frac{1}{2}$	0 0	8 10 $\frac{1}{2}$	0 0	10 2
2 $\frac{5}{8}$	0 0	0 23	0 0	3 7 $\frac{3}{4}$	0 0	2 12 $\frac{3}{4}$	0 0	3 23 $\frac{1}{4}$	0 0	5 2 $\frac{3}{4}$	0 0	6 8 $\frac{1}{4}$	0 0	8 5 $\frac{1}{2}$	0 0	10 2 $\frac{3}{4}$
2 $\frac{3}{4}$	0 0	0 25 $\frac{1}{4}$	0 0	3 16 $\frac{3}{4}$	0 0	2 19 $\frac{1}{2}$	0 0	3 16 $\frac{3}{4}$	0 0	5 11	0 0	6 24 $\frac{1}{2}$	0 0	8 24	0 0	10 2 $\frac{3}{4}$
2 $\frac{7}{8}$	0 0	0 27 $\frac{1}{2}$	0 0	3 26	0 0	2 26 $\frac{1}{2}$	0 0	3 25 $\frac{1}{4}$	0 0	5 25 $\frac{1}{4}$	0 0	6 31 $\frac{1}{2}$	0 0	8 32	0 0	10 2 $\frac{3}{4}$
3	0 1	2 0	0 3	4 0	0 8	1 10	0 1	1 10	0 1	2 12	0 1	2 12	0 1	3 14	0 2	4 2

TABLE No. 13.

WEIGHT OF FLAT BAR-IRON.

FROM  $1'' \times \frac{1}{4}''$  TO  $6'' \times 1''$ , AND FROM 1 FOOT TO  
10 FEET IN LENGTH.

TABLE No. 13.—WEIGHT OF FLAT BAR-IRON.

**RULE.**—Multiply the sectional area in square inches by 3.33. The product is the weight of one foot in pounds. Or, multiply the sectional area in square  $\frac{1}{16}$  inches by .052 for the weight of one foot in pounds. The weights in the Table are given to the nearest  $\frac{1}{4}$  lb.

The Table is useful for finding the weight of butt-straps in boiler-making.

Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
1	0 0 $\frac{3}{4}$	0 0 $1\frac{1}{2}$	0 0 $2\frac{1}{2}$	0 0 $3\frac{1}{4}$	0 0 $4\frac{1}{4}$	0 0 5	0 0 $5\frac{3}{4}$	0 0 $6\frac{1}{2}$	0 0 $7\frac{1}{2}$	0 0 $8\frac{1}{4}$
1	0 0 $1\frac{1}{4}$	0 0 $2\frac{1}{2}$	0 0 $3\frac{3}{4}$	0 0 5	0 0 $6\frac{1}{4}$	0 0 $7\frac{1}{2}$	0 0 $8\frac{3}{4}$	0 0 10	0 0 $11\frac{1}{4}$	0 0 $12\frac{1}{2}$
1	0 0 $1\frac{3}{4}$	0 0 $3\frac{1}{4}$	0 0 5	0 0 $6\frac{3}{4}$	0 0 $8\frac{1}{4}$	0 0 10	0 0 $11\frac{3}{4}$	0 0 $13\frac{1}{4}$	0 0 15	0 0 $16\frac{3}{4}$
$1\frac{1}{8}$	0 0 1	0 0 $1\frac{3}{4}$	0 0 $2\frac{3}{4}$	0 0 $3\frac{3}{4}$	0 0 $4\frac{1}{2}$	0 0 $5\frac{1}{2}$	0 0 $6\frac{1}{2}$	0 0 $7\frac{1}{2}$	0 0 $8\frac{1}{2}$	0 0 $9\frac{1}{2}$
$1\frac{1}{4}$	0 0 $1\frac{1}{2}$	0 0 $2\frac{3}{4}$	0 0 4	0 0 $5\frac{1}{2}$	0 0 7	0 0 $8\frac{1}{2}$	0 0 $9\frac{3}{4}$	0 0 $11\frac{1}{2}$	0 0 $12\frac{3}{4}$	0 0 14
$1\frac{1}{2}$	0 0 $1\frac{3}{4}$	0 0 3	0 0 $5\frac{1}{2}$	0 0 $7\frac{1}{2}$	0 0 $9\frac{1}{4}$	0 0 $11\frac{1}{4}$	0 0 13	0 0 $15\frac{1}{2}$	0 0 17	0 0 $18\frac{3}{4}$
$1\frac{3}{4}$	0 0 2	0 0 $4\frac{1}{2}$	0 0 7	0 0 $9\frac{1}{4}$	0 0 $11\frac{3}{4}$	0 0 13	0 0 $16\frac{1}{4}$	0 0 $18\frac{3}{4}$	0 0 21	0 0 $23\frac{1}{2}$
$1\frac{7}{8}$	0 0 2	0 0 4	0 0 8	0 0 11	0 0 $14\frac{1}{4}$	0 0 17	0 0 20	0 0 $23\frac{1}{4}$	0 0 26	0 0 $29\frac{1}{4}$
$1\frac{1}{2}$	0 0 2	0 0 4	0 0 8	0 0 11	0 0 $14\frac{1}{2}$	0 0 17	0 0 20	0 0 $23\frac{1}{2}$	0 0 26	0 0 $29\frac{1}{2}$
$1\frac{1}{4}$	0 0 2	0 0 4	0 0 8	0 0 11	0 0 $15\frac{1}{2}$	0 0 18	0 0 $21\frac{1}{2}$	0 0 24	0 0 27	0 0 30
$1\frac{3}{8}$	0 0 3	0 0 6	0 0 12	0 0 15	0 0 $18\frac{1}{2}$	0 0 21	0 0 $24\frac{1}{2}$	0 0 27	0 0 30	0 0 33
$1\frac{1}{2}$	0 0 3	0 0 6	0 0 12	0 0 15	0 0 $19\frac{1}{2}$	0 0 22	0 0 $25\frac{1}{2}$	0 0 28	0 0 31	0 0 34
$1\frac{3}{4}$	0 0 4	0 0 8	0 0 16	0 0 21	0 0 $26\frac{1}{2}$	0 0 31	0 0 $36\frac{1}{2}$	0 0 41	0 0 46	0 0 51

Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
1 1/2	0 0 1 3/4	0 0 3 1/2	0 0 5 1/4	0 0 6 3/4	0 0 8 1/2	0 0 10 1/4	0 0 12	0 0 13 1/2	0 0 15 1/2	0 0 17 1/4
1 3/8	0 0 2 1/4	0 0 4 1/2	0 0 6 3/4	0 0 9 1/4	0 0 11 1/2	0 0 13 3/4	0 0 16	0 0 18 1/4	0 0 20 1/2	0 0 23
1 5/8	0 0 2 3/4	0 0 5 1/2	0 0 8 1/2	0 0 11 1/2	0 0 14 1/2	0 0 17 1/2	0 0 20	0 0 23	0 0 25 3/4	0 0 28 3/4
1 7/8	0 0 3 1/4	0 0 6 3/4	0 0 10 1/4	0 0 13 3/4	0 0 17 1/4	0 0 20 1/2	0 0 24	0 0 27 1/2	0 1 3	0 1 6 1/2
1 9/8	0 0 3 3/4	0 0 7 1/2	0 0 11 1/2	0 0 15	0 0 18 3/4	0 0 22 1/2	0 0 26 1/4	0 0 30	0 0 34 1/4	0 0 38 3/4
1 1 1/8	0 0 4 1/4	0 0 8 1/2	0 0 12 1/2	0 0 16 1/2	0 0 20 1/2	0 0 24 1/2	0 0 28 1/2	0 0 32 1/2	0 0 36 1/2	0 0 40 1/2
1 1 3/8	0 0 4 3/4	0 0 9 3/4	0 0 14 1/4	0 0 18 1/4	0 0 22 1/4	0 0 26 1/4	0 0 30 1/4	0 0 34 1/4	0 0 38 1/4	0 0 42 1/4
1 1 5/8	0 0 5 1/4	0 0 10 1/2	0 0 15 1/2	0 0 20 1/2	0 0 25 1/2	0 0 30 1/2	0 0 35 1/2	0 0 40 1/2	0 0 45 1/2	0 0 50 1/2
1 1 7/8	0 0 5 3/4	0 0 11 1/4	0 0 16 1/4	0 0 21 1/4	0 0 26 1/4	0 0 31 1/4	0 0 36 1/4	0 0 41 1/4	0 0 46 1/4	0 0 51 1/4
1 1 9/8	0 0 6 1/4	0 0 12 1/2	0 0 18 1/2	0 0 24 1/2	0 0 30 1/2	0 0 36 1/2	0 0 42 1/2	0 0 48 1/2	0 0 54 1/2	0 0 60 1/2
1 1 11/8	0 0 6 3/4	0 0 13 1/4	0 0 19 1/4	0 0 25 1/4	0 0 31 1/4	0 0 37 1/4	0 0 43 1/4	0 0 49 1/4	0 0 55 1/4	0 0 61 1/4
1 1 13/8	0 0 7 1/4	0 0 14 1/2	0 0 21 1/2	0 0 28 1/2	0 0 35 1/2	0 0 42 1/2	0 0 49 1/2	0 0 56 1/2	0 0 63 1/2	0 0 70 1/2
1 1 15/8	0 0 7 3/4	0 0 15 1/4	0 0 22 1/4	0 0 29 1/4	0 0 36 1/4	0 0 43 1/4	0 0 50 1/4	0 0 57 1/4	0 0 64 1/4	0 0 71 1/4
1 1 17/8	0 0 8 1/4	0 0 16 1/2	0 0 24 1/2	0 0 32 1/2	0 0 40 1/2	0 0 48 1/2	0 0 56 1/2	0 0 64 1/2	0 0 72 1/2	0 0 80 1/2
1 1 19/8	0 0 8 3/4	0 0 17 1/4	0 0 25 1/4	0 0 33 1/4	0 0 41 1/4	0 0 49 1/4	0 0 57 1/4	0 0 65 1/4	0 0 73 1/4	0 0 81 1/4
1 1 21/8	0 0 9 1/4	0 0 18 1/2	0 0 26 1/2	0 0 34 1/2	0 0 42 1/2	0 0 50 1/2	0 0 58 1/2	0 0 66 1/2	0 0 74 1/2	0 0 82 1/2
1 1 23/8	0 0 9 3/4	0 0 19 1/4	0 0 27 1/4	0 0 35 1/4	0 0 43 1/4	0 0 51 1/4	0 0 59 1/4	0 0 67 1/4	0 0 75 1/4	0 0 83 1/4
1 1 25/8	0 0 10 1/4	0 0 20 1/2	0 0 28 1/2	0 0 36 1/2	0 0 44 1/2	0 0 52 1/2	0 0 60 1/2	0 0 68 1/2	0 0 76 1/2	0 0 84 1/2
1 1 27/8	0 0 10 3/4	0 0 21 1/4	0 0 29 1/4	0 0 37 1/4	0 0 45 1/4	0 0 53 1/4	0 0 61 1/4	0 0 69 1/4	0 0 77 1/4	0 0 85 1/4
1 1 29/8	0 0 11 1/4	0 0 22 1/2	0 0 30 1/2	0 0 38 1/2	0 0 46 1/2	0 0 54 1/2	0 0 62 1/2	0 0 70 1/2	0 0 78 1/2	0 0 86 1/2
1 1 31/8	0 0 11 3/4	0 0 23 1/4	0 0 31 1/4	0 0 39 1/4	0 0 47 1/4	0 0 55 1/4	0 0 63 1/4	0 0 71 1/4	0 0 79 1/4	0 0 87 1/4
1 1 33/8	0 0 12 1/4	0 0 24 1/2	0 0 32 1/2	0 0 40 1/2	0 0 48 1/2	0 0 56 1/2	0 0 64 1/2	0 0 72 1/2	0 0 80 1/2	0 0 88 1/2
1 1 35/8	0 0 12 3/4	0 0 25 1/4	0 0 33 1/4	0 0 41 1/4	0 0 49 1/4	0 0 57 1/4	0 0 65 1/4	0 0 73 1/4	0 0 81 1/4	0 0 89 1/4
1 1 37/8	0 0 13 1/4	0 0 26 1/2	0 0 34 1/2	0 0 42 1/2	0 0 50 1/2	0 0 58 1/2	0 0 66 1/2	0 0 74 1/2	0 0 82 1/2	0 0 90 1/2
1 1 39/8	0 0 13 3/4	0 0 27 1/4	0 0 35 1/4	0 0 43 1/4	0 0 51 1/4	0 0 59 1/4	0 0 67 1/4	0 0 75 1/4	0 0 83 1/4	0 0 91 1/4
1 1 41/8	0 0 14 1/4	0 0 28 1/2	0 0 36 1/2	0 0 44 1/2	0 0 52 1/2	0 0 60 1/2	0 0 68 1/2	0 0 76 1/2	0 0 84 1/2	0 0 92 1/2
1 1 43/8	0 0 14 3/4	0 0 29 1/4	0 0 37 1/4	0 0 45 1/4	0 0 53 1/4	0 0 61 1/4	0 0 69 1/4	0 0 77 1/4	0 0 85 1/4	0 0 93 1/4
1 1 45/8	0 0 15 1/4	0 0 30 1/2	0 0 38 1/2	0 0 46 1/2	0 0 54 1/2	0 0 62 1/2	0 0 70 1/2	0 0 78 1/2	0 0 86 1/2	0 0 94 1/2
1 1 47/8	0 0 15 3/4	0 0 31 1/4	0 0 39 1/4	0 0 47 1/4	0 0 55 1/4	0 0 63 1/4	0 0 71 1/4	0 0 79 1/4	0 0 87 1/4	0 0 95 1/4
1 1 49/8	0 0 16 1/4	0 0 32 1/2	0 0 40 1/2	0 0 48 1/2	0 0 56 1/2	0 0 64 1/2	0 0 72 1/2	0 0 80 1/2	0 0 88 1/2	0 0 96 1/2
1 1 51/8	0 0 16 3/4	0 0 33 1/4	0 0 41 1/4	0 0 49 1/4	0 0 57 1/4	0 0 65 1/4	0 0 73 1/4	0 0 81 1/4	0 0 89 1/4	0 0 97 1/4
1 1 53/8	0 0 17 1/4	0 0 34 1/2	0 0 42 1/2	0 0 50 1/2	0 0 58 1/2	0 0 66 1/2	0 0 74 1/2	0 0 82 1/2	0 0 90 1/2	0 0 98 1/2
1 1 55/8	0 0 17 3/4	0 0 35 1/4	0 0 43 1/4	0 0 51 1/4	0 0 59 1/4	0 0 67 1/4	0 0 75 1/4	0 0 83 1/4	0 0 91 1/4	0 0 99 1/4
1 1 57/8	0 0 18 1/4	0 0 36 1/2	0 0 44 1/2	0 0 52 1/2	0 0 60 1/2	0 0 68 1/2	0 0 76 1/2	0 0 84 1/2	0 0 92 1/2	0 0 100 1/2
1 1 59/8	0 0 18 3/4	0 0 37 1/4	0 0 45 1/4	0 0 53 1/4	0 0 61 1/4	0 0 69 1/4	0 0 77 1/4	0 0 85 1/4	0 0 93 1/4	0 0 101 1/4
1 1 61/8	0 0 19 1/4	0 0 38 1/2	0 0 46 1/2	0 0 54 1/2	0 0 62 1/2	0 0 70 1/2	0 0 78 1/2	0 0 86 1/2	0 0 94 1/2	0 0 102 1/2
1 1 63/8	0 0 19 3/4	0 0 39 1/4	0 0 47 1/4	0 0 55 1/4	0 0 63 1/4	0 0 71 1/4	0 0 79 1/4	0 0 87 1/4	0 0 95 1/4	0 0 103 1/4
1 1 65/8	0 0 20 1/4	0 0 40 1/2	0 0 48 1/2	0 0 56 1/2	0 0 64 1/2	0 0 72 1/2	0 0 80 1/2	0 0 88 1/2	0 0 96 1/2	0 0 104 1/2
1 1 67/8	0 0 20 3/4	0 0 41 1/4	0 0 49 1/4	0 0 57 1/4	0 0 65 1/4	0 0 73 1/4	0 0 81 1/4	0 0 89 1/4	0 0 97 1/4	0 0 105 1/4
1 1 69/8	0 0 21 1/4	0 0 42 1/2	0 0 50 1/2	0 0 58 1/2	0 0 66 1/2	0 0 74 1/2	0 0 82 1/2	0 0 90 1/2	0 0 98 1/2	0 0 106 1/2
1 1 71/8	0 0 21 3/4	0 0 43 1/4	0 0 51 1/4	0 0 59 1/4	0 0 67 1/4	0 0 75 1/4	0 0 83 1/4	0 0 91 1/4	0 0 99 1/4	0 0 107 1/4
1 1 73/8	0 0 22 1/4	0 0 44 1/2	0 0 52 1/2	0 0 60 1/2	0 0 68 1/2	0 0 76 1/2	0 0 84 1/2	0 0 92 1/2	0 0 100 1/2	0 0 108 1/2
1 1 75/8	0 0 22 3/4	0 0 45 1/4	0 0 53 1/4	0 0 61 1/4	0 0 69 1/4	0 0 77 1/4	0 0 85 1/4	0 0 93 1/4	0 0 101 1/4	0 0 109 1/4
1 1 77/8	0 0 23 1/4	0 0 46 1/2	0 0 54 1/2	0 0 62 1/2	0 0 70 1/2	0 0 78 1/2	0 0 86 1/2	0 0 94 1/2	0 0 102 1/2	0 0 110 1/2
1 1 79/8	0 0 23 3/4	0 0 47 1/4	0 0 55 1/4	0 0 63 1/4	0 0 71 1/4	0 0 79 1/4	0 0 87 1/4	0 0 95 1/4	0 0 103 1/4	0 0 111 1/4
1 1 81/8	0 0 24 1/4	0 0 48 1/2	0 0 56 1/2	0 0 64 1/2	0 0 72 1/2	0 0 80 1/2	0 0 88 1/2	0 0 96 1/2	0 0 104 1/2	0 0 112 1/2
1 1 83/8	0 0 24 3/4	0 0 49 1/4	0 0 57 1/4	0 0 65 1/4	0 0 73 1/4	0 0 81 1/4	0 0 89 1/4	0 0 97 1/4	0 0 105 1/4	0 0 113 1/4
1 1 85/8	0 0 25 1/4	0 0 50 1/2	0 0 58 1/2	0 0 66 1/2	0 0 74 1/2	0 0 82 1/2	0 0 90 1/2	0 0 98 1/2	0 0 106 1/2	0 0 114 1/2
1 1 87/8	0 0 25 3/4	0 0 51 1/4	0 0 59 1/4	0 0 67 1/4	0 0 75 1/4	0 0 83 1/4	0 0 91 1/4	0 0 99 1/4	0 0 107 1/4	0 0 115 1/4
1 1 89/8	0 0 26 1/4	0 0 52 1/2	0 0 60 1/2	0 0 68 1/2	0 0 76 1/2	0 0 84 1/2	0 0 92 1/2	0 0 100 1/2	0 0 108 1/2	0 0 116 1/2
1 1 91/8	0 0 26 3/4	0 0 53 1/4	0 0 61 1/4	0 0 69 1/4	0 0 77 1/4	0 0 85 1/4	0 0 93 1/4	0 0 101 1/4	0 0 109 1/4	0 0 117 1/4
1 1 93/8	0 0 27 1/4	0 0 54 1/2	0 0 62 1/2	0 0 70 1/2	0 0 78 1/2	0 0 86 1/2	0 0 94 1/2	0 0 102 1/2	0 0 110 1/2	0 0 118 1/2
1 1 95/8	0 0 27 3/4	0 0 55 1/4	0 0 63 1/4	0 0 71 1/4	0 0 79 1/4	0 0 87 1/4	0 0 95 1/4	0 0 103 1/4	0 0 111 1/4	0 0 119 1/4
1 1 97/8	0 0 28 1/4	0 0 56 1/2	0 0 64 1/2	0 0 72 1/2	0 0 80 1/2	0 0 88 1/2	0 0 96 1/2	0 0 104 1/2	0 0 112 1/2	0 0 120 1/2
1 1 99/8	0 0 28 3/4	0 0 57 1/4	0 0 65 1/4	0 0 73 1/4	0 0 81 1/4	0 0 89 1/4	0 0 97 1/4	0 0 105 1/4	0 0 113 1/4	0 0 121 1/4
1 1 101/8	0 0 29 1/4	0 0 58 1/2	0 0 66 1/2	0 0 74 1/2	0 0 82 1/2	0 0 90 1/2	0 0 98 1/2	0 0 106 1/2	0 0 114 1/2	0 0 122 1/2
1 1 103/8	0 0 29 3/4	0 0 59 1/4	0 0 67 1/4	0 0 75 1/4	0 0 83 1/4	0 0 91 1/4	0 0 99 1/4	0 0 107 1/4	0 0 115 1/4	0 0 123 1/4
1 1 105/8	0 0 30 1/4	0 0 60 1/2	0 0 68 1/2	0 0 76 1/2	0 0 84 1/2	0 0 92 1/2	0 0 100 1/2	0 0 108 1/2	0 0 116 1/2	0 0 124 1/2
1 1 107/8	0 0 30 3/4	0 0 61 1/4	0 0 69 1/4	0 0 77 1/4	0 0 85 1/4	0 0 93 1/4	0 0 101 1/4	0 0 109 1/4	0 0 117 1/4	0 0 125 1/4
1 1 109/8	0 0 31 1/4	0 0 62 1/2	0 0 70 1/2	0 0 78 1/2	0 0 86 1/2	0 0 94 1/2	0 0 102 1/2	0 0 110 1/2	0 0 118 1/2	0 0 126 1/2
1 1 111/8	0 0 31 3/4	0 0 63 1/4	0 0 71 1/4	0 0 79 1/4	0 0 87 1/4	0 0 95 1/4	0 0 103 1/4	0 0 111 1/4	0 0 119 1/4	0 0 127 1/4
1 1 113/8	0 0 32 1/4	0 0 64 1/2	0 0 72 1/2	0 0 80 1/2	0 0 88 1/2	0 0 96 1/2	0 0 104 1/2	0 0 112 1/2	0 0 120 1/2	0 0 128 1/2
1 1 115/8	0 0 32 3/4	0 0 65 1/4	0 0 73 1/4	0 0 81 1/4	0 0 89 1/4	0 0 97 1/4	0 0 105 1/4	0 0 113 1/4	0 0 121 1/4	0 0 129 1/4
1 1 117/8	0 0 33 1/4	0 0 66 1/2	0 0 74 1/2	0 0 82 1/2	0 0 90 1/2	0 0 98 1/2	0 0 106 1/2	0 0 114 1/2	0 0 122 1/2	0 0 130 1/2
1 1 119/8	0 0 33 3/4	0 0 67 1/4	0 0 75 1/4	0 0 83 1/4	0 0 91 1/4	0 0 99 1/4	0 0 107 1/4	0 0 115 1/4	0 0 123 1/4	0 0 131 1/4
1 1 121/8	0 0 34 1/4	0 0 68 1/2	0 0 76 1/2	0 0 84 1/2	0 0 92 1/2	0 0 100 1/2	0 0 108 1/2	0 0 116 1/2	0 0 124 1/2	0 0 132 1/2
1 1 123/8	0 0 34 3/4	0 0 69 1/4	0 0 77 1/4	0						

Breadth and Thickness.	LENGTH IN FEET.																													
	1	2	3	4	5	6	7	8	9	10																				
Inches.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.	c. qrs.	lbs.																
1 1/8	0	3	0	0	5 3/4	0	8 3/4	0	11 1/2	0	14 1/2	0	17 1/2	0	20 1/4	0	23 1/4	0	26 1/4	0	1	1 1/4								
1 1/4	0	0	3 1/2	0	0	7 1/4	0	11	0	14 1/2	0	19 1/4	0	21 3/4	0	25 1/2	0	1	1	0	1	4 3/4	0	1	8 1/2					
1 1/2	0	0	4 1/4	0	0	8 3/4	0	13	0	17 1/2	0	22	0	26 1/4	0	1	2 1/2	0	1	7	0	1	11 1/2	0	1	15 3/4				
1 3/4	0	0	5	0	0	10	0	15 1/4	0	20 1/2	0	25 1/2	0	1	2 1/2	0	1	7 1/2	0	1	12 3/4	0	1	17 3/4	0	1	23			
1 7/8	0	0	1 1/2	0	0	3	0	4 1/2	0	6 1/4	0	7 3/4	0	9 1/2	0	11	0	14	0	12 1/2	0	0	14	0	0	15 1/2	0	0	15 1/2	
1 7/8	0	0	2 1/4	0	0	4 1/2	0	7	0	9 1/4	0	11 1/2	0	14	0	16 1/4	0	18 1/2	0	21	0	0	18 1/2	0	0	21	0	0	23 1/2	
1 7/8	0	0	3 1/4	0	0	6 1/4	0	9 1/4	0	12 1/2	0	15 1/2	0	18 3/4	0	21 3/4	0	25	0	1	0	0	1	0	0	1	0	0	1	3 1/4
1 7/8	0	0	4	0	0	7 3/4	0	11 3/4	0	14 1/2	0	19 1/2	0	23 1/2	0	27 1/4	0	1	3 3/4	0	1	3 3/4	0	1	7	0	1	11		
1 7/8	0	0	4 1/2	0	0	9 1/4	0	14	0	18 3/4	0	23 1/2	0	1	0	1	2 3/4	0	1	9 1/2	0	1	14 1/2	0	1	19				
1 7/8	0	0	5 1/2	0	0	11	0	16 1/2	0	22	0	27 1/4	0	1	4 1/4	0	1	10 1/4	0	1	16	0	1	21 1/2	0	1	26 3/4			
2	0	0	1 1/2	0	0	3 1/4	0	5	0	6 1/2	0	8 1/4	0	10	0	11 3/4	0	13 1/4	0	15	0	0	13 1/4	0	0	15	0	0	16 3/4	
2	0	0	2 1/2	0	0	5	0	7 1/2	0	10	0	12 1/2	0	15	0	17 1/2	0	20	0	23 1/4	0	0	20	0	0	22 1/2	0	0	25	
2	0	0	3 1/4	0	0	6 1/2	0	10	0	13 1/4	0	16 1/2	0	20	0	23 1/4	0	26 3/4	0	1	2	0	0	26 3/4	0	1	2	0	1	4 1/4
2	0	0	4	0	0	8 1/4	0	12 1/2	0	16 1/2	0	20 1/2	0	25	0	1	1	5 1/4	0	1	5 1/4	0	1	9 1/2	0	1	13 1/2			
2	0	0	5	0	0	10	0	15	0	20	0	25	0	1	2	0	1	7	0	1	12	0	1	17	0	1	22			
2	0	0	5 3/4	0	0	11 1/2	0	17 1/2	0	23 1/4	0	1	1	1	7	0	1	12 3/4	0	1	18 1/2	0	1	24 1/2	0	1	29			
2	0	0	6 1/2	0	0	13 1/4	0	20	0	26 1/2	0	1	5 1/4	0	1	18 1/2	0	1	25 1/2	0	2	4	0	2	10 3/4					
2 1/8	0	0	1 3/4	0	0	3 1/2	0	5 1/4	0	7	0	8 3/4	0	10 1/2	0	12 1/2	0	14 1/4	0	16	0	0	14 1/4	0	0	16	0	0	17 3/4	



Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
2 1/8	0 0	2 1/4 0	0 5 1/4	0 8	0 10 1/2	0 13 1/4	0 16	0 18 1/2	0 21 1/4	0 23 3/4
2 3/8	0 0	3 1/2 0	0 10 3/4	0 14	0 17 1/2	0 21 1/4	0 24 3/4	0 28 1/2	0 32	0 35 3/4
2 1/2	0 0	4 1/2 0	0 13 1/4	0 17 1/2	0 22	0 26 1/2	0 31	0 35 1/2	0 40	0 44 1/4
2 7/8	0 0	5 1/4 0	0 16	0 21 1/4	0 26 1/2	0 32	0 37 1/2	0 43 1/2	0 49 1/4	0 55 1/4
2 3/4	0 0	6 1/4 0	0 18 1/2	0 24 3/4	0 31	0 38	0 45 1/2	0 53 1/2	0 61 1/4	0 69 3/4
2 1/4	0 0	7 0 0	0 21 1/4	0 28 1/4	0 36	0 44 1/2	0 53 1/2	0 62 1/2	0 72 1/4	0 82 1/4
2 1/8	0 0	1 3/4 0	0 3 3/4	0 5 1/2	0 7 1/4	0 9 1/4	0 11 1/4	0 13	0 15	0 16 3/4
2 3/4	0 0	2 3/4 0	0 5 1/2	0 8 1/2	0 11 1/4	0 14	0 17	0 19 3/4	0 22 1/2	0 25 1/4
2 1/4	0 0	3 3/4 0	0 7 1/2	0 11 1/4	0 15	0 18 3/4	0 22 1/2	0 26 1/4	0 30 1/4	0 34 1/4
2 1/8	0 0	4 1/4 0	0 9 1/4	0 14	0 18 3/4	0 23 1/2	0 28 1/2	0 34	0 40 1/4	0 46 1/4
2 3/8	0 0	5 1/4 0	0 11 1/4	0 16 3/4	0 22 1/2	0 29	0 36 1/2	0 44 1/2	0 52 1/2	0 61 1/4
2 1/4	0 0	6 1/2 0	0 13	0 19 1/2	0 26 1/4	0 33 1/4	0 41 1/4	0 49 1/2	0 58 1/2	0 67 1/2
2 3/4	0 0	7 1/2 0	0 15	0 22 1/2	0 30	0 38 1/2	0 47 1/2	0 57 1/2	0 68 1/2	0 79 1/2
2 1/8	0 0	2 0 0	0 4	0 6	0 7 3/4	0 9 3/4	0 11 3/4	0 13 3/4	0 15 3/4	0 17 3/4
2 3/8	0 0	3 0 0	0 6	0 8 3/4	0 11 3/4	0 14 3/4	0 17 3/4	0 20 3/4	0 23 3/4	0 26 3/4
2 1/2	0 0	4 0 0	0 8	0 11 3/4	0 15 3/4	0 19 3/4	0 23 3/4	0 28 3/4	0 33 3/4	0 39 3/4
2 3/4	0 0	5 0 0	0 10	0 14 3/4	0 19 3/4	0 24 3/4	0 30 3/4	0 36 3/4	0 43 3/4	0 51 3/4
2 1/8	0 0	6 0 0	0 11 3/4	0 17 3/4	0 23 3/4	0 30 3/4	0 38 3/4	0 46 3/4	0 55 3/4	0 64 3/4

Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
2 3/8	0 0 7	0 0 13 3/4	0 0 20 3/4	0 0 27 1/2	0 1 6 1/2	0 1 13 1/2	0 1 20 1/4	0 1 27 1/2	0 2 6 1/4	0 2 13 1/4
2 5/8	0 0 8	0 0 15 3/4	0 0 23 3/4	0 1 3 3/4	0 1 11 1/2	0 1 19 1/2	0 1 27 1/2	0 2 7 1/4	0 2 15 1/4	0 2 23 1/4
2 7/8	0 0 2	0 0 4 1/4	0 0 6 1/4	0 0 8 1/4	0 0 10 1/2	0 0 12 1/2	0 0 14 1/2	0 0 16 1/2	0 0 18 3/4	0 0 20 3/4
2 1/2	0 0 3	0 0 6 1/4	0 0 9 1/4	0 0 12 1/2	0 0 15 1/2	0 0 18 3/4	0 0 22	0 0 25	0 1 0	0 1 3 1/4
2 1/2	0 0 4 1/4	0 0 8 1/4	0 0 12 1/2	0 0 16 1/2	0 0 20 3/4	0 0 25	0 1 1 1/4	0 1 5 1/4	0 1 9 1/2	0 1 13 1/2
2 1/2	0 0 5 1/4	0 0 10 1/2	0 0 15 1/2	0 0 20 3/4	0 0 26	0 1 3 1/4	0 1 8 1/2	0 1 13 1/2	0 1 18 3/4	0 1 24
2 1/2	0 0 6 1/4	0 0 12 1/2	0 0 18 3/4	0 0 25	0 1 3 1/4	0 1 9 1/2	0 1 15 3/4	0 2 2 1/2	0 2 7 1/4	0 2 12 1/2
2 1/2	0 0 7 1/4	0 0 14 1/2	0 0 22	0 1 1 1/4	0 1 8 1/2	0 1 15 3/4	0 2 3	0 2 10 3/4	0 2 17 1/2	0 2 24 1/2
2 1/2	0 0 8 1/4	0 0 16 3/4	0 0 25	0 1 5 1/4	0 1 13 3/4	0 2 2 1/2	0 2 10 3/4	0 2 17 1/2	0 2 24 1/2	0 2 31 1/2
2 3/8	0 0 2	0 0 4 1/4	0 0 6 1/2	0 0 8 3/4	0 0 11	0 0 13	0 0 15 1/4	0 0 17 1/2	0 0 19 3/4	0 0 21 3/4
2 3/8	0 0 3 1/4	0 0 6 1/2	0 0 9 3/4	0 0 13	0 0 16 1/4	0 0 19 1/2	0 0 23	0 0 26 1/4	0 1 1 1/2	0 1 4 1/2
2 3/8	0 0 4 1/4	0 0 8 3/4	0 0 13	0 0 17 1/2	0 0 21 3/4	0 0 26 1/4	0 1 2 1/2	0 1 7	0 1 11 1/2	0 1 15 1/2
2 3/8	0 0 5 1/2	0 0 11	0 0 16 1/4	0 0 21 3/4	0 0 27 1/4	0 1 4 3/4	0 1 10 1/4	0 1 15 3/4	0 2 3	0 2 9 1/2
2 3/8	0 0 6 1/2	0 0 13	0 0 19 1/2	0 0 26 1/4	0 1 4 3/4	0 1 11 1/4	0 1 17 3/4	0 2 4 1/2	0 2 12 3/4	0 2 20 1/2
2 3/8	0 0 7 1/2	0 0 15 1/4	0 0 23	0 1 2 1/2	0 1 10 1/4	0 1 17 3/4	0 2 5 1/2	0 2 11 1/2	0 2 18 3/4	0 3 3 1/4
2 3/8	0 0 8 3/4	0 0 17 1/2	0 0 26 1/4	0 1 7	0 1 15 3/4	0 2 5 1/4	0 2 11 1/4	0 2 17 1/4	0 3 8 1/4	0 4 2 1/4
2 3/8	0 0 2 1/4	0 0 4 1/2	0 0 6 3/4	0 0 9 1/4	0 0 11 1/2	0 0 13 1/2	0 0 16	0 0 18 1/4	0 0 20 1/2	0 0 22 3/4
2 3/8	0 0 3 1/2	0 0 6 3/4	0 0 10 1/4	0 0 13 3/4	0 0 17 1/4	0 0 20 1/2	0 0 24	0 0 27 1/2	0 1 3	0 1 6 1/4

Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
2 $\frac{3}{4}$ X	0 0 4 $\frac{1}{2}$ 0	0 0 9 $\frac{1}{2}$ 0	0 0 13 $\frac{3}{4}$ 0	0 0 18 $\frac{1}{4}$ 0	0 0 22 $\frac{3}{4}$ 0	0 0 27 $\frac{1}{2}$ 0	1 4 0 1 8 $\frac{1}{2}$ 0	1 8 $\frac{1}{2}$ 0 1 13 $\frac{1}{4}$ 0	1 13 $\frac{1}{4}$ 0 1 17 $\frac{3}{4}$ 0	1 17 $\frac{3}{4}$ 0 1 23 $\frac{1}{2}$ 0
2 $\frac{3}{8}$ X	0 0 5 $\frac{3}{8}$ 0	0 0 11 $\frac{1}{2}$ 0	0 0 17 $\frac{1}{4}$ 0	0 0 22 $\frac{3}{4}$ 0	0 1 0 $\frac{1}{2}$ 0	1 6 $\frac{1}{4}$ 0 1 17 $\frac{3}{4}$ 0	1 12 0 1 17 $\frac{3}{4}$ 0	1 17 $\frac{3}{4}$ 0 1 23 $\frac{1}{2}$ 0	1 23 $\frac{1}{2}$ 0 1 29 $\frac{1}{4}$ 0	2 1 $\frac{1}{4}$ 0 2 7 $\frac{1}{2}$ 0
2 $\frac{1}{2}$ X	0 0 6 $\frac{3}{4}$ 0	0 0 13 $\frac{3}{4}$ 0	0 0 20 $\frac{1}{2}$ 0	0 0 27 $\frac{1}{2}$ 0	0 1 6 $\frac{1}{2}$ 0	1 13 $\frac{1}{4}$ 0 1 27 0	1 20 0 1 27 0	1 27 0 1 34 0	1 34 0 1 41 0	2 12 $\frac{3}{4}$ 0 2 24 $\frac{1}{2}$ 0
2 $\frac{1}{4}$ X	0 0 8 0	0 0 16 $\frac{1}{4}$ 0	0 0 24 $\frac{1}{4}$ 0	0 1 4 $\frac{1}{4}$ 0	0 1 12 0	1 20 0 1 27 0	2 0 $\frac{1}{4}$ 0 2 8 $\frac{1}{4}$ 0	2 8 $\frac{1}{4}$ 0 2 16 $\frac{1}{4}$ 0	2 16 $\frac{1}{4}$ 0 2 24 $\frac{1}{2}$ 0	2 24 $\frac{1}{2}$ 0 2 32 0
2 $\frac{3}{16}$ X 1	0 0 9 $\frac{1}{4}$ 0	0 0 18 $\frac{1}{4}$ 0	0 0 27 $\frac{1}{2}$ 0	0 1 8 $\frac{3}{4}$ 0	0 1 18 0	0 1 27 0 1 36 0	0 16 $\frac{3}{4}$ 0 0 19 0	0 19 0 0 21 $\frac{1}{2}$ 0	0 21 $\frac{1}{2}$ 0 0 23 $\frac{1}{4}$ 0	0 23 $\frac{1}{4}$ 0 0 25 $\frac{1}{2}$ 0
2 $\frac{1}{8}$ X	0 0 2 $\frac{1}{4}$ 0	0 0 4 $\frac{3}{8}$ 0	0 0 7 $\frac{1}{4}$ 0	0 0 9 $\frac{1}{2}$ 0	0 0 12 0	0 0 14 $\frac{1}{4}$ 0	0 25 $\frac{1}{4}$ 0 1 0 $\frac{3}{4}$ 0	1 0 $\frac{3}{4}$ 0 1 1 $\frac{1}{4}$ 0	1 1 $\frac{1}{4}$ 0 1 2 $\frac{1}{4}$ 0	1 2 $\frac{1}{4}$ 0 1 3 $\frac{1}{4}$ 0
2 $\frac{1}{16}$ X	0 0 3 $\frac{1}{2}$ 0	0 0 7 $\frac{1}{4}$ 0	0 0 10 $\frac{3}{4}$ 0	0 0 14 $\frac{1}{4}$ 0	0 0 18 0	0 0 21 $\frac{1}{2}$ 0	0 34 0 1 5 $\frac{1}{2}$ 0	1 10 $\frac{1}{4}$ 0 1 15 0	1 15 0 1 20 0	1 19 $\frac{3}{4}$ 0 1 24 $\frac{1}{2}$ 0
2 $\frac{1}{32}$ X	0 0 4 $\frac{3}{8}$ 0	0 0 9 $\frac{1}{2}$ 0	0 0 14 $\frac{1}{4}$ 0	0 0 19 0	0 0 24 0	0 1 0 $\frac{1}{2}$ 0 1 8 0	1 14 0 1 20 0	1 20 0 1 26 0	1 26 0 1 32 0	1 32 0 1 38 0
2 $\frac{1}{64}$ X	0 0 6 0	0 0 12 0	0 0 18 0	0 0 24 0	0 1 2 0	1 8 0 1 15 0	1 14 0 1 22 $\frac{1}{4}$ 0	1 22 $\frac{1}{4}$ 0 1 29 $\frac{1}{2}$ 0	1 29 $\frac{1}{2}$ 0 1 37 0	1 37 0 1 44 0
2 $\frac{1}{128}$ X	0 0 7 $\frac{1}{4}$ 0	0 0 14 $\frac{1}{2}$ 0	0 0 21 $\frac{1}{2}$ 0	0 1 0 $\frac{3}{4}$ 0	1 8 0	1 15 0 1 22 $\frac{1}{4}$ 0	1 22 $\frac{1}{4}$ 0 1 29 $\frac{1}{2}$ 0	1 29 $\frac{1}{2}$ 0 1 37 0	1 37 0 1 44 0	1 44 0 1 51 0
2 $\frac{1}{256}$ X	0 0 8 $\frac{1}{4}$ 0	0 0 16 $\frac{1}{2}$ 0	0 0 25 $\frac{1}{4}$ 0	1 5 $\frac{1}{2}$ 0	1 14 0	1 22 $\frac{1}{4}$ 0 1 29 $\frac{1}{2}$ 0	1 29 $\frac{1}{2}$ 0 1 37 0	1 37 0 1 44 0	1 44 0 1 51 0	1 51 0 1 58 0
2 $\frac{1}{512}$ X 1	0 0 9 $\frac{1}{2}$ 0	0 0 19 $\frac{1}{4}$ 0	1 0 $\frac{3}{4}$ 0	1 10 $\frac{1}{4}$ 0	1 20 0	1 29 $\frac{1}{2}$ 0 1 37 0	1 37 0 1 44 0	1 44 0 1 51 0	1 51 0 1 58 0	1 58 0 1 65 0
3 X	0 0 2 $\frac{1}{2}$ 0	0 0 5 0	0 0 7 $\frac{1}{2}$ 0	0 0 10 0	0 0 12 $\frac{1}{2}$ 0	0 0 15 0 0 18 $\frac{1}{2}$ 0	0 26 $\frac{1}{4}$ 0 1 2 0	1 2 0 1 7 0	1 7 0 1 12 0	1 12 0 1 17 0
3 X	0 0 3 $\frac{3}{4}$ 0	0 0 7 $\frac{1}{2}$ 0	0 0 11 $\frac{1}{4}$ 0	0 0 15 0	0 0 18 $\frac{3}{4}$ 0	0 0 22 $\frac{1}{2}$ 0 1 2 0	1 2 0 1 7 0	1 7 0 1 12 0	1 12 0 1 17 0	1 17 0 1 22 0
3 X	0 0 5 0	0 0 10 0	0 0 15 0	0 0 20 0	0 0 25 0	0 1 3 $\frac{1}{4}$ 0 1 9 $\frac{1}{2}$ 0	1 9 $\frac{1}{2}$ 0 1 15 $\frac{1}{2}$ 0	1 15 $\frac{1}{2}$ 0 1 21 $\frac{1}{2}$ 0	1 21 $\frac{1}{2}$ 0 1 27 $\frac{1}{2}$ 0	1 27 $\frac{1}{2}$ 0 1 33 $\frac{1}{2}$ 0
3 X	0 0 6 $\frac{1}{4}$ 0	0 0 12 $\frac{1}{2}$ 0	0 0 18 $\frac{3}{4}$ 0	0 0 25 0	0 1 3 $\frac{1}{4}$ 0	1 9 $\frac{1}{2}$ 0 1 17 0	1 17 0 1 24 $\frac{1}{2}$ 0	1 24 $\frac{1}{2}$ 0 1 31 $\frac{1}{2}$ 0	1 31 $\frac{1}{2}$ 0 1 38 $\frac{1}{2}$ 0	1 38 $\frac{1}{2}$ 0 1 45 $\frac{1}{2}$ 0
3 X	0 0 7 $\frac{1}{2}$ 0	0 0 15 0	0 0 22 $\frac{1}{2}$ 0	1 2 0	1 9 $\frac{1}{2}$ 0	1 17 0 1 24 $\frac{1}{2}$ 0	1 24 $\frac{1}{2}$ 0 1 31 $\frac{1}{2}$ 0	1 31 $\frac{1}{2}$ 0 1 38 $\frac{1}{2}$ 0	1 38 $\frac{1}{2}$ 0 1 45 $\frac{1}{2}$ 0	1 45 $\frac{1}{2}$ 0 1 52 $\frac{1}{2}$ 0
3 X	0 0 8 $\frac{3}{4}$ 0	0 0 17 $\frac{1}{2}$ 0	0 0 26 $\frac{1}{4}$ 0	1 7 0	1 15 $\frac{1}{2}$ 0	1 24 $\frac{1}{2}$ 0 1 31 $\frac{1}{2}$ 0	1 31 $\frac{1}{2}$ 0 1 38 $\frac{1}{2}$ 0	1 38 $\frac{1}{2}$ 0 1 45 $\frac{1}{2}$ 0	1 45 $\frac{1}{2}$ 0 1 52 $\frac{1}{2}$ 0	1 52 $\frac{1}{2}$ 0 1 59 $\frac{1}{2}$ 0

WEIGHT OF FLAT BAR IRON.

Breadth, and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
Inches.										
3	0 0 10	0 0 20	0 1 2	0 1 12	0 1 22	0 2 4	0 2 14	0 2 24	0 3 6	0 3 16
3 1/8	0 0 2 1/2	0 0 5 1/4	0 0 7 3/4	0 0 10 1/2	0 0 13	0 0 15 1/2	0 0 18 1/4	0 0 20 3/4	0 0 23 1/2	0 0 26
3 1/4	0 0 4	0 0 7 3/4	0 0 11 3/4	0 0 15 1/2	0 0 19 1/2	0 0 23 1/2	0 0 27 1/4	0 1 3 1/4	0 1 7	0 1 11
3 1/2	0 0 5 1/4	0 0 10 1/2	0 0 16 1/2	0 0 20 3/4	0 0 26	0 1 3 1/4	0 1 8 1/2	0 1 13 1/2	0 1 18 3/4	0 1 24
3 3/8	0 0 6 1/2	0 0 13	0 0 19 1/2	0 0 26	0 1 4 1/2	0 1 11	0 1 17 1/2	0 1 24	0 2 3 1/2	0 2 9
3 3/4	0 0 7 3/4	0 0 15 1/2	0 0 23 1/2	0 1 3 1/4	0 1 11	0 1 18 3/4	0 1 26 1/2	0 2 6 1/2	0 2 14 1/4	0 2 22
3 7/8	0 0 9	0 0 18 1/4	0 0 27 1/4	0 1 8 1/2	0 1 17 1/2	0 1 26 1/2	0 2 7 3/4	0 2 16 3/4	0 2 26	0 3 7
3 1 1/8	0 0 10 1/2	0 0 20 3/4	0 1 3 1/4	0 1 13 1/2	0 1 26	0 2 9	0 2 19 3/4	0 3 2 1/2	0 3 13 1/4	0 3 24 1/4
3 1/4	0 0 2 3/4	0 0 5 1/2	0 0 8 1/4	0 0 10 3/4	0 0 13 1/2	0 0 16 1/4	0 0 19	0 0 21 1/2	0 0 24 1/4	0 0 27
3 1/2	0 0 4	0 0 8	0 0 12 1/4	0 0 16 1/4	0 0 20 1/4	0 0 24 1/4	0 1 0 1/4	0 1 4 1/2	0 1 8 1/2	0 1 12 1/2
3 3/4	0 0 5 1/2	0 0 10 3/4	0 0 16 1/4	0 0 21 3/4	0 0 27 1/4	0 1 4 1/2	0 1 10	0 1 15 1/2	0 1 21	0 1 26 1/2
3 7/8	0 0 6 3/4	0 0 13 1/2	0 0 20 1/4	0 0 27 1/4	0 1 5 3/4	0 1 12 1/2	0 1 19 1/4	0 1 26	0 2 4 3/4	0 2 11 1/2
3 1 1/4	0 0 8 1/4	0 0 16 1/4	0 0 24 3/4	0 1 4 1/2	0 1 12 3/4	0 1 20 3/4	0 2 1	0 2 9	0 2 17 1/4	0 2 25 1/2
3 1 1/2	0 0 9 1/2	0 0 19	0 1 0 1/4	0 1 10	0 1 19 1/2	0 2 0 3/4	0 2 10 1/4	0 2 19 3/4	0 3 1 1/4	0 3 10 1/2
3 1 3/4	0 0 10 3/4	0 0 21 1/2	0 1 4 3/4	0 1 15 1/4	0 1 26	0 2 9	0 2 19 3/4	0 3 2 1/4	0 3 13 1/4	0 3 24 1/4
3 3/8	0 0 2 3/4	0 0 5 1/2	0 0 8 1/4	0 0 11 1/4	0 0 14	0 0 16 3/4	0 0 19 1/2	0 0 22 1/2	0 0 25 1/2	0 1 0
3 3/4	0 0 4 1/4	0 0 8 1/2	0 0 12 1/2	0 0 16 3/4	0 0 21	0 0 25 1/4	0 1 1 1/2	0 1 5 1/2	0 1 9 3/4	0 1 14
3 7/8	0 0 5 1/2	0 0 11 1/4	0 0 16 3/4	0 0 22 1/2	0 1 0	0 1 5 3/4	0 1 11 1/4	0 1 17	0 1 21 1/2	0 2 0 1/4

Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
$3\frac{3}{8}$	0 0 7	0 0 14	0 0 21	0 1 0	0 1 7	0 1 14	0 1 21 $\frac{1}{4}$	0 2 0 $\frac{1}{4}$	0 2 7 $\frac{1}{4}$	0 2 14 $\frac{1}{4}$
$3\frac{5}{8}$	0 0 8 $\frac{1}{2}$	0 0 16 $\frac{3}{4}$	0 0 25 $\frac{1}{4}$	0 1 5 $\frac{1}{2}$	0 1 14	0 1 22 $\frac{1}{2}$	0 2 3	0 2 10 $\frac{1}{4}$	0 2 19 $\frac{3}{4}$	0 2 26 $\frac{1}{4}$
$3\frac{7}{8}$	0 0 9 $\frac{3}{4}$	0 0 19 $\frac{1}{2}$	0 1 1 $\frac{1}{2}$	0 1 11 $\frac{1}{4}$	0 1 21	0 2 3	0 2 12 $\frac{1}{2}$	0 2 22 $\frac{1}{2}$	0 3 4 $\frac{1}{4}$	0 3 14 $\frac{1}{4}$
$3\frac{7}{8}$ X 1	0 0 11 $\frac{1}{4}$	0 0 22 $\frac{1}{2}$	0 1 5 $\frac{1}{2}$	0 1 17	0 2 0 $\frac{1}{4}$	0 2 11 $\frac{1}{4}$	0 2 22 $\frac{3}{4}$	0 3 5 $\frac{3}{4}$	0 3 17	0 0 0 $\frac{1}{2}$
$3\frac{1}{2}$	0 0 3	0 0 5 $\frac{3}{4}$	0 0 8 $\frac{3}{4}$	0 0 11 $\frac{1}{2}$	0 0 14 $\frac{1}{2}$	0 0 17 $\frac{1}{2}$	0 0 20 $\frac{1}{4}$	0 0 23 $\frac{1}{4}$	0 0 26 $\frac{1}{4}$	0 1 1
$3\frac{1}{2}$ X 3	0 0 4 $\frac{1}{4}$	0 0 8 $\frac{3}{4}$	0 0 13	0 0 17 $\frac{1}{2}$	0 0 21 $\frac{3}{4}$	0 0 26 $\frac{1}{4}$	0 1 2 $\frac{1}{2}$	0 1 7	0 1 11 $\frac{1}{2}$	0 1 15 $\frac{3}{4}$
$3\frac{1}{2}$ X 4	0 0 5 $\frac{3}{4}$	0 0 11 $\frac{3}{4}$	0 0 17 $\frac{1}{2}$	0 1 1	0 1 8 $\frac{1}{2}$	0 1 15 $\frac{1}{2}$	0 1 23	0 1 18 $\frac{3}{4}$	0 1 24 $\frac{1}{2}$	0 2 2 $\frac{1}{4}$
$3\frac{1}{2}$ X 5	0 0 7 $\frac{1}{4}$	0 0 14 $\frac{1}{2}$	0 0 21 $\frac{3}{4}$	0 1 7	0 1 15 $\frac{3}{4}$	0 1 24 $\frac{1}{2}$	0 2 5 $\frac{1}{4}$	0 2 21 $\frac{1}{4}$	0 2 9 $\frac{1}{2}$	0 2 16 $\frac{3}{4}$
$3\frac{1}{2}$ X 6	0 0 8 $\frac{3}{4}$	0 0 17 $\frac{1}{2}$	0 0 26 $\frac{1}{4}$	0 1 7	0 1 15 $\frac{3}{4}$	0 1 24 $\frac{1}{2}$	0 2 5 $\frac{1}{4}$	0 2 21 $\frac{1}{4}$	0 2 22 $\frac{1}{2}$	0 3 3 $\frac{1}{2}$
$3\frac{1}{2}$ X 7	0 0 10 $\frac{1}{4}$	0 0 20 $\frac{1}{2}$	0 1 2 $\frac{1}{2}$	0 1 12 $\frac{3}{4}$	0 1 23	0 2 5 $\frac{3}{4}$	0 2 15 $\frac{1}{2}$	0 2 25 $\frac{1}{2}$	0 3 7 $\frac{3}{4}$	0 3 18
$3\frac{1}{2}$ X 8	0 0 11 $\frac{3}{4}$	0 0 23 $\frac{1}{4}$	0 1 7	0 1 18 $\frac{1}{2}$	0 2 2 $\frac{1}{4}$	0 2 14	0 2 25 $\frac{3}{4}$	0 3 9 $\frac{1}{4}$	0 3 21	0 0 5 $\frac{1}{2}$
$3\frac{1}{2}$ X 9	0 0 3	0 0 6	0 0 9	0 0 12	0 0 15	0 0 18	0 0 21	0 0 24	0 0 27	0 1 2
$3\frac{1}{2}$ X 10	0 0 4 $\frac{1}{2}$	0 0 9	0 0 13 $\frac{1}{2}$	0 0 18	0 0 22 $\frac{1}{2}$	0 0 27 $\frac{1}{4}$	0 1 3 $\frac{1}{2}$	0 1 8 $\frac{1}{4}$	0 1 12 $\frac{1}{2}$	0 1 17 $\frac{1}{4}$
$3\frac{5}{8}$	0 0 6	0 0 12	0 0 18	0 0 24	0 1 2 $\frac{1}{4}$	0 1 8 $\frac{1}{4}$	0 1 14 $\frac{1}{4}$	0 1 20 $\frac{1}{4}$	0 1 26 $\frac{1}{4}$	0 2 4 $\frac{1}{4}$
$3\frac{5}{8}$ X 1	0 0 7 $\frac{1}{2}$	0 0 15	0 0 22 $\frac{1}{2}$	0 1 2 $\frac{1}{4}$	0 1 9 $\frac{3}{4}$	0 1 17 $\frac{1}{4}$	0 1 24 $\frac{3}{4}$	0 2 4 $\frac{1}{2}$	0 2 11 $\frac{3}{4}$	0 2 19 $\frac{1}{2}$
$3\frac{5}{8}$ X 2	0 0 9	0 0 18	0 0 27	0 1 8 $\frac{1}{4}$	0 1 17 $\frac{1}{4}$	0 1 26 $\frac{1}{4}$	0 2 7 $\frac{1}{4}$	0 2 16 $\frac{1}{4}$	0 2 25 $\frac{1}{4}$	0 3 6 $\frac{1}{2}$
$3\frac{5}{8}$ X 3	0 0 10 $\frac{1}{2}$	0 0 21	0 1 3 $\frac{1}{2}$	0 1 14 $\frac{1}{4}$	0 1 24 $\frac{3}{4}$	0 2 7 $\frac{1}{4}$	0 2 17 $\frac{3}{4}$	0 3 0 $\frac{1}{2}$	0 3 11	0 3 21 $\frac{1}{2}$
$3\frac{5}{8}$ X 4	0 0 12	0 0 24	0 1 8 $\frac{1}{4}$	0 1 20 $\frac{1}{4}$	0 2 4 $\frac{1}{4}$	0 2 16 $\frac{1}{4}$	0 3 0 $\frac{1}{2}$	0 3 12 $\frac{1}{2}$	0 3 24 $\frac{1}{2}$	0 0 8 $\frac{1}{2}$

Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
$3\frac{3}{4}$	0 0 3	0 0 6 $\frac{1}{4}$	0 0 9 $\frac{1}{2}$	0 0 12 $\frac{1}{2}$	0 0 15 $\frac{1}{2}$	0 0 18 $\frac{3}{4}$	0 0 21 $\frac{3}{4}$	0 0 25	0 0 28 $\frac{1}{2}$	0 0 31 $\frac{1}{4}$
$3\frac{1}{2}$	0 0 4 $\frac{1}{2}$	0 0 9 $\frac{1}{4}$	0 0 14	0 0 18 $\frac{3}{4}$	0 0 23 $\frac{1}{2}$	0 0 28 $\frac{1}{2}$	0 0 33 $\frac{1}{2}$	0 0 39	0 0 44 $\frac{1}{2}$	0 0 49 $\frac{1}{2}$
$3\frac{1}{4}$	0 0 6 $\frac{1}{4}$	0 0 12 $\frac{1}{2}$	0 0 18 $\frac{3}{4}$	0 0 25	0 0 31 $\frac{1}{4}$	0 0 37 $\frac{1}{2}$	0 0 43 $\frac{1}{2}$	0 0 50	0 0 56 $\frac{1}{2}$	0 0 62 $\frac{1}{2}$
$3\frac{1}{8}$	0 0 7 $\frac{3}{8}$	0 0 15 $\frac{1}{2}$	0 0 23 $\frac{1}{2}$	0 0 31 $\frac{1}{4}$	0 0 39	0 0 46 $\frac{1}{2}$	0 0 54 $\frac{1}{2}$	0 0 62	0 0 70	0 0 77 $\frac{1}{2}$
$3\frac{1}{8}$	0 0 9 $\frac{1}{4}$	0 0 18 $\frac{1}{2}$	0 0 27	0 0 36	0 0 45	0 0 54	0 0 63	0 0 72	0 0 81	0 0 90
$3\frac{1}{8}$	0 0 11	0 0 21 $\frac{3}{4}$	0 0 32 $\frac{1}{2}$	0 0 43	0 0 54	0 0 64 $\frac{1}{2}$	0 0 75	0 0 85 $\frac{1}{2}$	0 0 96	0 0 106 $\frac{1}{2}$
$3\frac{1}{8}$	0 0 12 $\frac{1}{2}$	0 0 25	0 0 37 $\frac{1}{2}$	0 0 50	0 0 62 $\frac{1}{2}$	0 0 75	0 0 87 $\frac{1}{2}$	0 0 100	0 0 112 $\frac{1}{2}$	0 0 125
$3\frac{1}{8}$	0 0 3 $\frac{1}{4}$	0 0 6 $\frac{1}{2}$	0 0 10	0 0 13 $\frac{1}{4}$	0 0 16 $\frac{3}{4}$	0 0 20	0 0 23 $\frac{1}{4}$	0 0 26 $\frac{3}{4}$	0 0 30	0 0 33 $\frac{1}{4}$
4	0 0 5	0 0 10	0 0 15	0 0 20	0 0 25	0 0 30	0 0 35	0 0 40	0 0 45	0 0 50
4	0 0 6 $\frac{1}{2}$	0 0 13 $\frac{1}{4}$	0 0 20	0 0 26 $\frac{3}{4}$	0 0 33 $\frac{1}{2}$	0 0 40	0 0 46 $\frac{1}{2}$	0 0 53	0 0 60	0 0 66 $\frac{1}{2}$
4	0 0 8 $\frac{1}{4}$	0 0 16 $\frac{1}{2}$	0 0 25	0 0 34	0 0 43	0 0 52	0 0 61	0 0 70	0 0 79	0 0 88
4	0 0 10	0 0 20	0 0 30	0 0 40	0 0 50	0 0 60	0 0 70	0 0 80	0 0 90	0 0 100
4	0 0 11 $\frac{3}{4}$	0 0 23 $\frac{1}{4}$	0 0 35	0 0 47	0 0 59	0 0 71	0 0 83	0 0 95	0 0 107	0 0 119
4	0 0 13 $\frac{1}{4}$	0 0 26 $\frac{1}{2}$	0 0 39	0 0 52	0 0 65	0 0 78	0 0 91	0 0 104	0 0 117	0 0 130
4	0 0 3 $\frac{1}{2}$	0 0 7	0 0 10 $\frac{1}{2}$	0 0 14 $\frac{1}{4}$	0 0 18 $\frac{1}{2}$	0 0 22 $\frac{1}{4}$	0 0 26 $\frac{1}{2}$	0 0 30 $\frac{1}{4}$	0 0 34 $\frac{1}{2}$	0 0 38 $\frac{1}{4}$
4	0 0 5 $\frac{1}{4}$	0 0 10 $\frac{1}{2}$	0 0 16	0 0 21 $\frac{1}{4}$	0 0 26 $\frac{1}{2}$	0 0 31 $\frac{1}{4}$	0 0 36 $\frac{1}{2}$	0 0 41 $\frac{1}{4}$	0 0 46 $\frac{1}{2}$	0 0 51 $\frac{1}{4}$
4	0 0 7	0 0 14	0 0 21 $\frac{1}{4}$	0 0 28 $\frac{1}{2}$	0 0 35 $\frac{1}{2}$	0 0 42 $\frac{1}{2}$	0 0 50	0 0 57 $\frac{1}{2}$	0 0 64 $\frac{1}{2}$	0 0 71 $\frac{1}{2}$
4	0 0 8 $\frac{1}{4}$	0 0 17 $\frac{1}{2}$	0 0 26	0 0 35	0 0 44	0 0 53	0 0 62	0 0 71	0 0 80	0 0 89

Breadth and Thickness.	LENGTH IN FEET.									
	1	2	3	4	5	6	7	8	9	10
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.
4 1/4 x 3/4	0 0 10 1/2	0 0 21 1/4	0 1 4	0 1 14 1/2	0 1 25	0 2 7 3/4	0 2 18 1/2	0 3 1	0 3 11 1/2	0 3 22
4 1/4 x 7/8	0 0 12 1/4	0 0 24 3/4	0 1 9 1/4	0 1 21 3/4	0 2 6	0 2 18 1/2	0 3 2 3/4	0 3 15 1/4	0 3 27 1/2	1 0 11 3/4
4 1/4 x 1	0 0 14 1/4	0 1 0 1/4	0 1 14 1/2	0 2 0 1/2	0 2 14 3/4	0 3 1	0 3 15 1/4	0 1 1 1/4	0 1 15 1/2	1 1 1 1/2
4 1/2 x 1/4	0 0 3 3/4	0 0 7 1/2	0 0 11 1/4	0 0 15	0 0 18 3/4	0 0 22 1/2	0 0 26 1/4	0 1 2	0 1 5 3/4	0 1 9 1/2
4 1/2 x 1/2	0 0 7 1/2	0 0 15	0 0 22 1/2	0 1 2	0 1 9 1/2	0 1 17	0 1 24 1/2	0 2 4	0 2 11 1/2	0 2 19
4 1/2 x 3/4	0 0 11 1/4	0 0 22 1/2	0 1 5 3/4	0 1 17	0 2 0 1/4	0 2 11 1/2	0 2 22 1/2	0 3 6	0 3 17	1 0 0 1/4
4 1/2 x 1	0 0 15	0 1 2	0 1 17	0 2 4	0 2 19	0 3 6	0 3 21	1 0 8	1 0 23	1 1 10
4 3/4 x 1/4	0 0 4	0 0 8	0 0 11 3/4	0 0 15 3/4	0 0 19 3/4	0 0 23 3/4	0 0 27 1/2	0 1 3 1/2	0 1 7 1/2	0 1 11 1/2
4 3/4 x 1/2	0 0 8	0 0 15 3/4	0 0 23 3/4	0 1 3 1/2	0 1 11 1/2	0 1 19 1/2	0 1 27 1/4	0 2 7 1/4	0 2 15	0 2 23
4 3/4 x 3/4	0 0 11 3/4	0 0 23 3/4	0 1 7 1/2	0 1 19 1/2	0 2 3 1/4	0 2 15	0 2 27	0 3 10 3/4	0 3 22 1/2	1 0 6 1/2
4 3/4 x 1	0 0 15 3/4	0 1 3 1/2	0 1 19 1/2	0 2 7 1/4	0 2 23	0 3 11	0 3 26 3/4	1 0 14 1/2	1 1 2 1/4	1 1 18 1/4
5 x 1/4	0 0 4 1/4	0 0 8 1/4	0 0 12 1/2	0 0 16 1/2	0 0 20 3/4	0 0 25	0 1 1 1/4	0 1 5 1/4	0 1 9 1/2	0 1 13 1/2
5 x 1/2	0 0 8 1/4	0 0 16 1/2	0 0 25	0 1 5 1/4	0 1 13 3/4	0 1 22	0 2 2 1/4	0 2 10 3/4	0 2 19	0 2 27 1/2
5 x 3/4	0 0 12 1/2	0 0 25	0 1 9 1/2	0 1 22	0 2 6 1/2	0 2 19	0 3 3 1/2	0 3 16	1 0 0 1/2	1 0 13 1/2
5 x 1	0 0 16 1/2	0 1 5 1/4	0 1 22	0 2 9 1/2	0 2 27 3/4	0 3 16	1 0 4 1/2	1 0 21 1/4	1 1 10	1 1 26 1/2
5 1/4 x 1/4	0 0 4 1/4	0 0 8 3/4	0 0 13	0 0 17 1/2	0 0 21 3/4	0 0 26 1/4	0 1 2 1/2	0 1 7	0 1 11 1/2	0 1 15 3/4
5 1/4 x 1/2	0 0 8 3/4	0 0 17 1/2	0 0 26 1/4	0 1 7	0 1 15 3/4	0 1 24 1/2	0 2 5 1/4	0 2 14	0 2 22 3/4	0 3 3 1/2
5 1/4 x 3/4	0 0 13	0 0 26 1/4	0 1 11 1/4	0 1 24 1/2	0 2 9 1/2	0 2 22 1/2	0 3 8	0 3 21	1 0 6	1 0 19

Breadth. and Thickness.	LENGTH IN FEET.																													
	1		2		3		4		5		6		7		8		9		10											
	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.	c.	qrs.	lbs.									
$5\frac{1}{4}$ X 1	0	0	$17\frac{1}{2}$	0	1	7	0	1	$24\frac{1}{2}$	0	2	14	0	3	$31\frac{1}{2}$	0	3	21	1	0	10	1	1	17	1	2	7			
$5\frac{1}{2}$ X $\frac{1}{4}$	0	0	$4\frac{1}{2}$	0	0	$9\frac{1}{4}$	0	0	$13\frac{3}{4}$	0	0	$18\frac{1}{4}$	0	0	$27\frac{1}{2}$	0	0	$27\frac{1}{2}$	0	1	4	0	1	$8\frac{1}{2}$	0	1	$13\frac{1}{4}$	0	1	$17\frac{3}{4}$
$5\frac{1}{2}$ X $\frac{1}{2}$	0	0	$9\frac{3}{4}$	0	0	$18\frac{1}{2}$	0	0	$27\frac{1}{2}$	0	1	$8\frac{1}{2}$	0	1	$17\frac{3}{4}$	0	1	27	0	2	8	0	2	$17\frac{1}{4}$	0	2	$26\frac{1}{8}$	0	3	$7\frac{1}{2}$
$5\frac{1}{2}$ X $\frac{3}{4}$	0	0	$13\frac{3}{4}$	0	0	$27\frac{1}{2}$	0	1	$13\frac{1}{4}$	0	1	27	0	2	$12\frac{3}{4}$	0	2	$26\frac{1}{2}$	0	3	$12\frac{1}{4}$	0	3	26	1	0	$11\frac{3}{4}$	1	0	$25\frac{3}{4}$
$5\frac{1}{2}$ X 1	0	0	$18\frac{1}{4}$	0	1	$8\frac{3}{4}$	0	1	27	0	2	$17\frac{1}{4}$	0	3	$7\frac{1}{2}$	0	3	26	1	0	$16\frac{1}{2}$	1	1	$6\frac{3}{4}$	1	1	25	1	2	15
$5\frac{3}{4}$ X $\frac{1}{4}$	0	0	$4\frac{3}{4}$	0	0	$9\frac{1}{2}$	0	0	$14\frac{1}{4}$	0	0	$19\frac{1}{4}$	0	0	24	0	1	$0\frac{3}{4}$	0	1	$5\frac{1}{2}$	0	1	$10\frac{1}{4}$	0	1	15	0	1	20
$5\frac{3}{4}$ X $\frac{1}{2}$	0	0	$9\frac{1}{2}$	0	0	$19\frac{1}{4}$	0	1	$0\frac{3}{4}$	0	1	$10\frac{1}{2}$	0	1	20	0	2	$1\frac{1}{2}$	0	2	11	0	2	$20\frac{3}{4}$	0	3	$2\frac{1}{4}$	0	3	12
$5\frac{3}{4}$ X $\frac{3}{4}$	0	0	$14\frac{1}{2}$	0	1	$0\frac{3}{4}$	0	1	15	0	2	$1\frac{1}{2}$	0	2	16	0	3	$2\frac{1}{4}$	0	3	$16\frac{1}{2}$	1	0	3	1	0	$17\frac{1}{2}$	1	1	$5\frac{3}{4}$
$5\frac{3}{4}$ X 1	0	0	$19\frac{1}{4}$	0	1	$10\frac{1}{4}$	0	2	$1\frac{1}{2}$	0	2	$20\frac{3}{4}$	0	3	$11\frac{3}{4}$	1	0	3	1	0	22	1	1	$13\frac{1}{4}$	1	2	$4\frac{1}{2}$	1	2	$23\frac{1}{2}$
6 X $\frac{1}{4}$	0	0	5	0	0	10	0	0	15	0	0	20	0	0	25	0	1	2	0	1	7	0	1	12	0	1	17	0	1	22
6 X $\frac{1}{2}$	0	0	10	0	0	20	0	1	2	0	1	12	0	1	22	0	2	4	0	2	14	0	2	24	0	3	6	0	3	16
6 X $\frac{3}{4}$	0	0	15	0	1	2	0	1	17	0	2	4	0	2	19	0	3	6	0	3	21	1	0	8	1	0	23	1	1	10
6 X 1	0	0	20	0	1	12	0	2	4	0	2	24	0	3	16	1	0	8	1	1	0	1	1	20	1	2	12	1	3	4



TABLE No. 14.

WEIGHT OF ANGLE-IRON AND T-IRON.

TABLE No. 14.—WEIGHT OF ANGLE-IRON AND T-IRON.

RULE.—Add the outside breadths of the flanges in inches together, and from the sum subtract one thickness of the flange, multiply the remainder by the thickness, and by 3.33. The product is the weight in pounds of 1 foot length.

The weights in the Table are given to the nearest  $\frac{1}{4}$  lb.

Size of Angle-Iron.	LENGTH IN FEET.																			
	1	2	3	4	5	6	7	8	9	10										
Inches.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.	c. qrs. lbs.										
$1 \times 1 \times \frac{3}{16}$	0	$1\frac{1}{4}$	0	$2\frac{1}{4}$	0	$3\frac{1}{2}$	0	$4\frac{1}{2}$	0	$5\frac{3}{4}$	0	$6\frac{3}{4}$	0	8	0	9	0	$10\frac{1}{4}$	0	$11\frac{1}{4}$
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{4}$	0	$1\frac{3}{4}$	0	$3\frac{3}{4}$	0	$5\frac{1}{2}$	0	$7\frac{1}{2}$	0	$9\frac{1}{4}$	0	$11\frac{1}{4}$	0	13	0	15	0	$16\frac{3}{4}$	0	$18\frac{3}{4}$
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{4}$	0	$2\frac{1}{4}$	0	$4\frac{1}{2}$	0	$6\frac{3}{4}$	0	$9\frac{1}{4}$	0	$11\frac{1}{2}$	0	$13\frac{3}{4}$	0	16	0	$18\frac{1}{4}$	0	$20\frac{1}{2}$	0	$22\frac{3}{4}$
$1\frac{3}{4} \times 1\frac{3}{4} \times \frac{5}{16}$	0	$3\frac{1}{4}$	0	$6\frac{1}{2}$	0	10	0	$13\frac{1}{4}$	0	$16\frac{1}{2}$	0	$19\frac{3}{4}$	0	$23\frac{1}{4}$	0	$26\frac{1}{2}$	0	$29\frac{1}{4}$	0	$32\frac{1}{4}$
$2 \times 2 \times \frac{5}{16}$	0	$3\frac{3}{4}$	0	$7\frac{1}{2}$	0	$11\frac{1}{2}$	0	$15\frac{1}{4}$	0	$19\frac{1}{4}$	0	23	0	$26\frac{3}{4}$	0	30	0	$33\frac{1}{4}$	0	$36\frac{1}{2}$
$2\frac{1}{4} \times 2\frac{1}{4} \times \frac{3}{8}$	0	$5\frac{1}{4}$	0	$10\frac{1}{4}$	0	$15\frac{1}{2}$	0	$20\frac{1}{2}$	0	$25\frac{3}{4}$	0	30	0	$35\frac{1}{4}$	0	40	0	$45\frac{1}{4}$	0	$50\frac{1}{2}$
$2\frac{1}{2} \times 2\frac{1}{2} \times \frac{7}{16}$	0	$6\frac{1}{2}$	0	$13\frac{1}{4}$	0	20	0	$26\frac{1}{2}$	0	$33\frac{1}{4}$	0	$40\frac{1}{4}$	0	$47\frac{1}{2}$	0	$54\frac{1}{2}$	0	$61\frac{1}{2}$	0	$68\frac{1}{2}$
$2\frac{3}{4} \times 2\frac{3}{4} \times \frac{7}{16}$	0	$7\frac{1}{2}$	0	$14\frac{3}{4}$	0	$22\frac{1}{4}$	0	$30\frac{1}{4}$	0	$38\frac{3}{4}$	0	$47\frac{1}{4}$	0	$56\frac{1}{4}$	0	$65\frac{1}{4}$	0	$74\frac{1}{4}$	0	$83\frac{1}{2}$
$3 \times 3 \times \frac{1}{2}$	0	$9\frac{1}{4}$	0	$18\frac{1}{2}$	0	$27\frac{1}{2}$	0	$37\frac{1}{2}$	0	$47\frac{1}{2}$	0	$57\frac{1}{2}$	0	$67\frac{1}{2}$	0	$77\frac{1}{2}$	0	$87\frac{1}{2}$	0	$97\frac{1}{2}$
$3\frac{1}{4} \times 3\frac{1}{4} \times \frac{5}{8}$	0	$12\frac{1}{4}$	0	$24\frac{1}{2}$	0	$36\frac{3}{4}$	0	$49\frac{1}{4}$	0	$62\frac{1}{4}$	0	$75\frac{1}{4}$	0	$88\frac{1}{4}$	0	$101\frac{1}{4}$	0	$114\frac{1}{4}$	0	$127\frac{1}{4}$
$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{3}{4}$	0	$15\frac{1}{2}$	0	$31\frac{1}{2}$	0	$47\frac{1}{2}$	0	$63\frac{1}{2}$	0	$79\frac{1}{2}$	0	$95\frac{1}{2}$	0	$111\frac{1}{2}$	0	$127\frac{1}{2}$	0	$143\frac{1}{2}$	0	$159\frac{1}{2}$
$3\frac{3}{4} \times 3\frac{3}{4} \times \frac{3}{4}$	0	$16\frac{3}{4}$	0	$33\frac{1}{2}$	0	$50\frac{3}{4}$	0	$67\frac{3}{4}$	0	$84\frac{3}{4}$	0	$101\frac{3}{4}$	0	$118\frac{3}{4}$	0	$135\frac{3}{4}$	0	$152\frac{3}{4}$	0	$169\frac{3}{4}$
$4 \times 4 \times \frac{3}{4}$	0	$18\frac{1}{4}$	0	$36\frac{1}{2}$	0	$54\frac{1}{2}$	0	$72\frac{1}{2}$	0	$90\frac{1}{2}$	0	$108\frac{1}{2}$	0	$126\frac{1}{2}$	0	$144\frac{1}{2}$	0	$162\frac{1}{2}$	0	$180\frac{1}{2}$

TABLES Nos. 15 AND 16.  
BRASS TUBES AND IRON TUBES.

TABLE No. 17.  
ROUND COPPER RODS.

## TABLES Nos. 15 AND 16.—WEIGHT OF BRASS TUBES, AND IRON TUBES.

RULE.—From the square of the outside diameter in inches subtract the square of the inside diameter; and multiply the remainder by 2.82 for Brass Tubes, and by 2.63 for Iron Tubes.

TABLE No. 15.—BRASS TUBES.

Outside Diam.	THICKNESS BY WIRE GAUGE AND IN PARTS OF AN INCH.				
	9 B.W.G. $\frac{5}{32}$ bore.	10 B.W.G. $\frac{1}{8}$ full.	11 B.W.G. $\frac{1}{8}$ bore.	12 B.W.G. $\frac{7}{64}$	13 B.W.G. $\frac{3}{32}$ full.
inches.	lbs.	lbs.	lbs.	lbs.	lbs.
$1\frac{3}{8}$	2.10	1.92	1.74	1.59	1.40
$1\frac{1}{2}$	2.32	2.11	1.92	1.75	1.54
$1\frac{5}{8}$	2.52	2.30	2.09	1.90	1.68
$1\frac{3}{4}$	2.73	2.50	2.26	2.06	1.81
$1\frac{7}{8}$	2.95	2.69	2.44	2.22	1.95
2	3.17	2.89	2.61	2.37	2.08

TABLE No. 16. IRON TUBES.

Outside Diam.	THICKNESS IN PARTS OF AN INCH.			Outside Diam.	THICKNESS IN PARTS OF AN INCH.		
	$\frac{1}{8}$ thick.	$\frac{3}{16}$ thick.	$\frac{1}{4}$ thick.		$\frac{1}{8}$ thick.	$\frac{3}{16}$ thick.	$\frac{1}{4}$ thick.
inches.	lbs.	lbs.	lbs.	inches.	lbs.	lbs.	lbs.
2	2.47	3.58	4.61	$2\frac{3}{4}$	3.46	5.06	6.58
$2\frac{1}{8}$	2.63	3.88	4.94	$2\frac{7}{8}$	3.61	5.30	6.91
$2\frac{1}{4}$	2.79	4.07	5.27	3	3.78	5.55	7.24
$2\frac{3}{8}$	2.96	4.32	5.59	$3\frac{1}{8}$	3.95	5.80	7.57
$2\frac{1}{2}$	3.14	4.57	5.92	$3\frac{1}{4}$	4.12	6.05	7.90
$2\frac{5}{8}$	3.29	4.81	6.25				

TABLE No. 17.—WEIGHT OF ROUND COPPER RODS.

RULE.—Multiply the square of the diameter in inches by 3.02. The product is the weight in lbs. of one foot.

Diam.	1 ft. long.	Diam.	1 ft. long.	Diam.	1 ft. long.
inch.	lbs.	inch.	lbs.	inch.	lbs.
$\frac{5}{8}$	1.17	$\frac{7}{8}$	2.31	$1\frac{1}{8}$	3.82
$\frac{11}{16}$	1.42	$\frac{15}{16}$	2.65	$1\frac{3}{16}$	4.26
$\frac{3}{4}$	1.69	1	3.02	$1\frac{1}{4}$	4.71
$\frac{13}{16}$	1.99	$1\frac{1}{16}$	3.41		

TABLE No. 18.  
STRENGTH OF CHAINS.

TABLE No. 19.  
STRENGTH OF COMMON ROPES.

TABLE No. 18.—STRENGTH OF CHAINS.

RULE.—Divide the square of the diameter in eighths of an inch by 10; the product is the working load in tons. Or, multiply the square of the diameter in sixteenths of an inch by 10; the product is the breaking strength in tons.

Diameter of Iron in Link.	WORKING LOAD.			BREAKING LOAD.		
	tons.	cwts.	qrs.	tons.	cwts.	qrs.
inch.						
$\frac{1}{4}$	0	8	2	1	13	1
$\frac{5}{16}$	0	12	2	2	10	0
$\frac{3}{8}$	0	18	0	3	12	0
$\frac{7}{16}$	1	4	2	4	18	0
$\frac{1}{2}$	1	12	0	6	8	0
$\frac{9}{16}$	2	0	2	8	2	0
$\frac{5}{8}$	2	10	0	10	0	0
$\frac{3}{4}$	3	12	0	14	8	0

TABLE No. 19.—STRENGTH OF COMMON ROPES.

RULE.—Multiply the square of the circumference in inches by .08; the product is the working load. Or, multiply the square of the circumference in inches by .2; the product is the breaking strength in tons.

Circum.	WORKING LOAD.				BREAKING LOAD.		
	tons.	cwts.	qrs.	lbs.	tons.	cwts.	qrs.
inches.							
2	0	6	1	17	0	16	0
$2\frac{1}{4}$	0	8	0	11	1	0	0
$2\frac{1}{2}$	0	10	0	0	1	5	0
$2\frac{3}{4}$	0	12	0	11	1	10	1
3	0	14	0	6	1	16	0
$3\frac{1}{4}$	0	16	3	17	2	2	1
$3\frac{1}{2}$	0	19	2	11	2	9	0
$3\frac{3}{4}$	1	2	2	0	2	16	1
4	1	5	2	11	3	4	0

TABLE No. 20.

POUNDS AVOIRDUPOIS REDUCED TO  
CWTS., QUARTERS, AND POUNDS.

TABLE No. 20.—POUNDS AVOIRDUPOIS REDUCED TO CWTS., QRS., AND LBS.

This Table is useful either for converting Pounds into Cwts., or Cwts. into Pounds.

lbs.	c. qrs.	lbs.	lbs.	c. qrs.	lbs.	lbs.	c. qrs.	lbs.							
28	0	1	0	62	0	2	6	96	0	3	12	130	1	0	18
29	0	1	1	63	0	2	7	97	0	3	13	131	1	0	19
30	0	1	2	64	0	2	8	98	0	3	14	132	1	0	20
31	0	1	3	65	0	2	9	99	0	3	15	133	1	0	21
32	0	1	4	66	0	2	10	100	0	3	16	134	1	0	22
33	0	1	5	67	0	2	11	101	0	3	17	135	1	0	23
34	0	1	6	68	0	2	12	102	0	3	18	136	1	0	24
35	0	1	7	69	0	2	13	103	0	3	19	137	1	0	25
36	0	1	8	70	0	2	14	104	0	3	20	138	1	0	26
37	0	1	9	71	0	2	15	105	0	3	21	139	1	0	27
38	0	1	10	72	0	2	16	106	0	3	22	140	1	1	0
39	0	1	11	73	0	2	17	107	0	3	23	141	1	1	1
40	0	1	12	74	0	2	18	108	0	3	24	142	1	1	2
41	0	1	13	75	0	2	19	109	0	3	25	143	1	1	3
42	0	1	14	76	0	2	20	110	0	3	26	144	1	1	4
43	0	1	15	77	0	2	21	111	0	3	27	145	1	1	5
44	0	1	16	78	0	2	22	112	1	0	0	146	1	1	6
45	0	1	17	79	0	2	23	113	1	0	1	147	1	1	7
46	0	1	18	80	0	2	24	114	1	0	2	148	1	1	8
47	0	1	19	81	0	2	25	115	1	0	3	149	1	1	9
48	0	1	20	82	0	2	26	116	1	0	4	150	1	1	10
49	0	1	21	83	0	2	27	117	1	0	5	151	1	1	11
50	0	1	22	84	0	3	0	118	1	0	6	152	1	1	12
51	0	1	23	85	0	3	1	119	1	0	7	153	1	1	13
52	0	1	24	86	0	3	2	120	1	0	8	154	1	1	14
53	0	1	25	87	0	3	3	121	1	0	9	155	1	1	15
54	0	1	26	88	0	3	4	122	1	0	10	156	1	1	16
55	0	1	27	89	0	3	5	123	1	0	11	157	1	1	17
56	0	2	0	90	0	3	6	124	1	0	12	158	1	1	18
57	0	2	1	91	0	3	7	125	1	0	13	159	1	1	19
58	0	2	2	92	0	3	8	126	1	0	14	160	1	1	20
59	0	2	3	93	0	3	9	127	1	0	15	161	1	1	21
60	0	2	4	94	0	3	10	128	1	0	16	162	1	1	22
61	0	2	5	95	0	3	11	129	1	0	17	163	1	1	23



REDUCED TO CWTS., QRS., AND LBS. 285

lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.
164	1	1	24	209	1	3	13	254	2	1	2	299	2	2	19
165	1	1	25	210	1	3	14	255	2	1	3	300	2	2	20
166	1	1	26	211	1	3	15	256	2	1	4	301	2	2	21
167	1	1	27	212	1	3	16	257	2	1	5	302	2	2	22
168	1	2	0	213	1	3	17	258	2	1	6	303	2	2	23
169	1	2	1	214	1	3	18	259	2	1	7	304	2	2	24
170	1	2	2	215	1	3	19	260	2	1	8	305	2	2	25
171	1	2	3	216	1	3	20	261	2	1	9	306	2	2	26
172	1	2	4	217	1	3	21	262	2	1	10	307	2	2	27
173	1	2	5	218	1	3	22	263	2	1	11	308	2	3	0
174	1	2	6	219	1	3	23	264	2	1	12	309	2	3	1
175	1	2	7	220	1	3	24	265	2	1	13	310	2	3	2
176	1	2	8	221	1	3	25	266	2	1	14	311	2	3	3
177	1	2	9	222	1	3	26	267	2	1	15	312	2	3	4
178	1	2	10	223	1	3	27	268	2	1	16	313	2	3	5
179	1	2	11	224	2	0	0	269	2	1	17	314	2	3	6
180	1	2	12	225	2	0	1	270	2	1	18	315	2	3	7
181	1	2	13	226	2	0	2	271	2	1	19	316	2	3	8
182	1	2	14	227	2	0	3	272	2	1	20	317	2	3	9
183	1	2	15	228	2	0	4	273	2	1	21	318	2	3	10
184	1	2	16	229	2	0	5	274	2	1	22	319	2	3	11
185	1	2	17	230	2	0	6	275	2	1	23	320	2	3	12
186	1	2	18	231	2	0	7	276	2	1	24	321	2	3	13
187	1	2	19	232	2	0	8	277	2	1	25	322	2	3	14
188	1	2	20	233	2	0	9	278	2	1	26	323	2	3	15
189	1	2	21	234	2	0	10	279	2	1	27	324	2	3	16
190	1	2	22	235	2	0	11	280	2	2	0	325	2	3	17
191	1	2	23	236	2	0	12	281	2	2	1	326	2	3	18
192	1	2	24	237	2	0	13	282	2	2	2	327	2	3	19
193	1	2	25	238	2	0	14	283	2	2	3	328	2	3	20
194	1	2	26	239	2	0	15	284	2	2	4	329	2	3	21
195	1	2	27	240	2	0	16	285	2	2	5	330	2	3	22
196	1	3	0	241	2	0	17	286	2	2	6	331	2	3	23
197	1	3	1	242	2	0	18	287	2	2	7	332	2	3	24
198	1	3	2	243	2	0	19	288	2	2	8	333	2	3	25
199	1	3	3	244	2	0	20	289	2	2	9	334	2	3	26
200	1	3	4	245	2	0	21	290	2	2	10	335	2	3	27
201	1	3	5	246	2	0	22	291	2	2	11	336	3	0	0
202	1	3	6	247	2	0	23	292	2	2	12	337	3	0	1
203	1	3	7	248	2	0	24	293	2	2	13	338	3	0	2
204	1	3	8	249	2	0	25	294	2	2	14	339	3	0	3
205	1	3	9	250	2	0	26	295	2	2	15	340	3	0	4
206	1	3	10	251	2	0	27	296	2	2	16	341	3	0	5
207	1	3	11	252	2	1	0	297	2	2	17	342	3	0	6
208	1	3	12	253	2	1	1	298	2	2	18	343	3	0	7

lbs.	c. qrs.	lbs.	lbs.	c. qrs.	lbs.	ll s.	c. qrs.	lbs.	lbs.	c. qrs.	lbs.				
344	3	0	8	389	3	1	25	434	3	3	14	479	4	1	3
345	3	0	9	390	3	1	26	435	3	3	15	480	4	1	4
346	3	0	10	391	3	1	27	436	3	3	16	481	4	1	5
347	3	0	11	392	3	2	0	437	3	3	17	482	4	1	6
348	3	0	12	393	3	2	1	438	3	3	18	483	4	1	7
349	3	0	13	394	3	2	2	439	3	3	19	484	4	1	8
350	3	0	14	395	3	2	3	440	3	3	20	485	4	1	9
351	3	0	15	396	3	2	4	441	3	3	21	486	4	1	10
352	3	0	16	397	3	2	5	442	3	3	22	487	4	1	11
353	3	0	17	398	3	2	6	443	3	3	23	488	4	1	12
354	3	0	18	399	3	2	7	444	3	3	24	489	4	1	13
355	3	0	19	400	3	2	8	445	3	3	25	490	4	1	14
356	3	0	20	401	3	2	9	446	3	3	26	491	4	1	15
357	3	0	21	402	3	2	10	447	3	3	27	492	4	1	16
358	3	0	22	403	3	2	11	448	4	0	0	493	4	1	17
359	3	0	23	404	3	2	12	449	4	0	1	494	4	1	18
360	3	0	24	405	3	2	13	450	4	0	2	495	4	1	19
361	3	0	25	406	3	2	14	451	4	0	3	496	4	1	20
362	3	0	26	407	3	2	15	452	4	0	4	497	4	1	21
363	3	0	27	408	3	2	16	453	4	0	5	498	4	1	22
364	3	1	0	409	3	2	17	454	4	0	6	499	4	1	23
365	3	1	1	410	3	2	18	455	4	0	7	500	4	1	24
366	3	1	2	411	3	2	19	456	4	0	8	501	4	1	25
367	3	1	3	412	3	2	20	457	4	0	9	502	4	1	26
368	3	1	4	413	3	2	21	458	4	0	10	503	4	1	27
369	3	1	5	414	3	2	22	459	4	0	11	504	4	2	0
370	3	1	6	415	3	2	23	460	4	0	12	505	4	2	1
371	3	1	7	416	3	2	24	461	4	0	13	506	4	2	2
372	3	1	8	417	3	2	25	462	4	0	14	507	4	2	3
373	3	1	9	418	3	2	26	463	4	0	15	508	4	2	4
374	3	1	10	419	3	2	27	464	4	0	16	509	4	2	5
375	3	1	11	420	3	3	0	465	4	0	17	510	4	2	6
376	3	1	12	421	3	3	1	466	4	0	18	511	4	2	7
377	3	1	13	422	3	3	2	467	4	0	19	512	4	2	8
378	3	1	14	423	3	3	3	468	4	0	20	513	4	2	9
379	3	1	15	424	3	3	4	469	4	0	21	514	4	2	10
380	3	1	16	425	3	3	5	470	4	0	22	515	4	2	11
381	3	1	17	426	3	3	6	471	4	0	23	516	4	2	12
382	3	1	18	427	3	3	7	472	4	0	24	517	4	2	13
383	3	1	19	428	3	3	8	473	4	0	25	518	4	2	14
384	3	1	20	429	3	3	9	474	4	0	26	519	4	2	15
385	3	1	21	430	3	3	10	475	4	0	27	520	4	2	16
386	3	1	22	431	3	3	11	476	4	1	0	521	4	2	17
387	3	1	23	432	3	3	12	477	4	1	1	522	4	2	18
388	3	1	24	433	3	3	13	478	4	1	2	523	4	2	19

lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.
524	4	2	20	569	5	0	9	614	5	1	26	659	5	3	15
525	4	2	21	570	5	0	10	615	5	1	27	660	5	3	16
526	4	2	22	571	5	0	11	616	5	2	0	661	5	3	17
527	4	2	23	572	5	0	12	617	5	2	1	662	5	3	18
528	4	2	24	573	5	0	13	618	5	2	2	663	5	3	19
529	4	2	25	574	5	0	14	619	5	2	3	664	5	3	20
530	4	2	26	575	5	0	15	620	5	2	4	665	5	3	21
531	4	2	27	576	5	0	16	621	5	2	5	666	5	3	22
532	4	3	0	577	5	0	17	622	5	2	6	667	5	3	23
533	4	3	1	578	5	0	18	623	5	2	7	668	5	3	24
534	4	3	2	579	5	0	19	624	5	2	8	669	5	3	25
535	4	3	3	580	5	0	20	625	5	2	9	670	5	3	26
536	4	3	4	581	5	0	21	626	5	2	10	671	5	3	27
537	4	3	5	582	5	0	22	627	5	2	11	672	6	0	0
538	4	3	6	583	5	0	23	628	5	2	12	673	6	0	1
539	4	3	7	584	5	0	24	629	5	2	13	674	6	0	2
540	4	3	8	585	5	0	25	630	5	2	14	675	6	0	3
541	4	3	9	586	5	0	26	631	5	2	15	676	6	0	4
542	4	3	10	587	5	0	27	632	5	2	16	677	6	0	5
543	4	3	11	588	5	1	0	633	5	2	17	678	6	0	6
544	4	3	12	589	5	1	1	634	5	2	18	679	6	0	7
545	4	3	13	590	5	1	2	635	5	2	19	680	6	0	8
546	4	3	14	591	5	1	3	636	5	2	20	681	6	0	9
547	4	3	15	592	5	1	4	637	5	2	21	682	6	0	10
548	4	3	16	593	5	1	5	638	5	2	22	683	6	0	11
549	4	3	17	594	5	1	6	639	5	2	23	684	6	0	12
550	4	3	18	595	5	1	7	640	5	2	24	685	6	0	13
551	4	3	19	596	5	1	8	641	5	2	25	686	6	0	14
552	4	3	20	597	5	1	9	642	5	2	26	687	6	0	15
553	4	3	21	598	5	1	10	643	5	2	27	688	6	0	16
554	4	3	22	599	5	1	11	644	5	3	0	689	6	0	17
555	4	3	23	600	5	1	12	645	5	3	1	690	6	0	18
556	4	3	24	601	5	1	13	646	5	3	2	691	6	0	19
557	4	3	25	602	5	1	14	647	5	3	3	692	6	0	20
558	4	3	26	603	5	1	15	648	5	3	4	693	6	0	21
559	4	3	27	604	5	1	16	649	5	3	5	694	6	0	22
560	5	0	0	605	5	1	17	650	5	3	6	695	6	0	23
561	5	0	1	606	5	1	18	651	5	3	7	696	6	0	24
562	5	0	2	607	5	1	19	652	5	3	8	697	6	0	25
563	5	0	3	608	5	1	20	653	5	3	9	698	6	0	26
564	5	0	4	609	5	1	21	654	5	3	10	699	6	0	27
565	5	0	5	610	5	1	22	655	5	3	11	700	6	1	0
566	5	0	6	611	5	1	23	656	5	3	12	701	6	1	1
567	5	0	7	612	5	1	24	657	5	3	13	702	6	1	2
568	5	0	8	613	5	1	25	658	5	3	14	703	6	1	3

lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.				
704	6	1	4	749	6	2	21	794	7	0	10	839	7	1	27
705	6	1	5	750	6	2	22	795	7	0	11	840	7	2	0
706	6	1	6	751	6	2	23	796	7	0	12	841	7	2	1
707	6	1	7	752	6	2	24	797	7	0	13	842	7	2	2
708	6	1	8	753	6	2	25	798	7	0	14	843	7	2	3
709	6	1	9	754	6	2	26	799	7	0	15	844	7	2	4
710	6	1	10	755	6	2	27	800	7	0	16	845	7	2	5
711	6	1	11	756	6	3	0	801	7	0	17	846	7	2	6
712	6	1	12	757	6	3	1	802	7	0	18	847	7	2	7
713	6	1	13	758	6	3	2	803	7	0	19	848	7	2	8
714	6	1	14	759	6	3	3	804	7	0	20	849	7	2	9
715	6	1	15	760	6	3	4	805	7	0	21	850	7	2	10
716	6	1	16	761	6	3	5	806	7	0	22	851	7	2	11
717	6	1	17	762	6	3	6	807	7	0	23	852	7	2	12
718	6	1	18	763	6	3	7	808	7	0	24	853	7	2	13
719	6	1	19	764	6	3	8	809	7	0	25	854	7	2	14
720	6	1	20	765	6	3	9	810	7	0	26	855	7	2	15
721	6	1	21	766	6	3	10	811	7	0	27	856	7	2	16
722	6	1	22	767	6	3	11	812	7	1	0	857	7	2	17
723	6	1	23	768	6	3	12	813	7	1	1	858	7	2	18
724	6	1	24	769	6	3	13	814	7	1	2	859	7	2	19
725	6	1	25	770	6	3	14	815	7	1	3	860	7	2	20
726	6	1	26	771	6	3	15	816	7	1	4	861	7	2	21
727	6	1	27	772	6	3	16	817	7	1	5	862	7	2	22
728	6	2	0	773	6	3	17	818	7	1	6	863	7	2	23
729	6	2	1	774	6	3	18	819	7	1	7	864	7	2	24
730	6	2	2	775	6	3	19	820	7	1	8	865	7	2	25
731	6	2	3	776	6	3	20	821	7	1	9	866	7	2	26
732	6	2	4	777	6	3	21	822	7	1	10	867	7	2	27
733	6	2	5	778	6	3	22	823	7	1	11	868	7	3	0
734	6	2	6	779	6	3	23	824	7	1	12	869	7	3	1
735	6	2	7	780	6	3	24	825	7	1	13	870	7	3	2
736	6	2	8	781	6	3	25	826	7	1	14	871	7	3	3
737	6	2	9	782	6	3	26	827	7	1	15	872	7	3	4
738	6	2	10	783	6	3	27	828	7	1	16	873	7	3	5
739	6	2	11	784	7	0	0	829	7	1	17	874	7	3	6
740	6	2	12	785	7	0	1	830	7	1	18	875	7	3	7
741	6	2	13	786	7	0	2	831	7	1	19	876	7	3	8
742	6	2	14	787	7	0	3	832	7	1	20	877	7	3	9
743	6	2	15	788	7	0	4	833	7	1	21	878	7	3	10
744	6	2	16	789	7	0	5	834	7	1	22	879	7	3	11
745	6	2	17	790	7	0	6	835	7	1	23	880	7	3	12
746	6	2	18	791	7	0	7	836	7	1	24	881	7	3	13
747	6	2	19	792	7	0	8	837	7	1	25	882	7	3	14
748	6	2	20	793	7	0	9	838	7	1	26	883	7	3	15

REDUCED TO CWTS., QRS., AND LBS. 289

lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.				
884	7	3	16	929	8	1	5	974	8	2	22	1019	9	0	11
885	7	3	17	930	8	1	6	975	8	2	23	1020	9	0	12
886	7	3	18	931	8	1	7	976	8	2	24	1021	9	0	13
887	7	3	19	932	8	1	8	977	8	2	25	1022	9	0	14
888	7	3	20	933	8	1	9	978	8	2	26	1023	9	0	15
889	7	3	21	934	8	1	10	979	8	2	27	1024	9	0	16
890	7	3	22	935	8	1	11	980	8	3	0	1025	9	0	17
891	7	3	23	936	8	1	12	981	8	3	1	1026	9	0	18
892	7	3	24	937	8	1	13	982	8	3	2	1027	9	0	19
893	7	3	25	938	8	1	14	983	8	3	3	1028	9	0	20
894	7	3	26	939	8	1	15	984	8	3	4	1029	9	0	21
895	7	3	27	940	8	1	16	985	8	3	5	1030	9	0	22
896	8	0	0	941	8	1	17	986	8	3	6	1031	9	0	23
897	8	0	1	942	8	1	18	987	8	3	7	1032	9	0	24
898	8	0	2	943	8	1	19	988	8	3	8	1033	9	0	25
899	8	0	3	944	8	1	20	989	8	3	9	1034	9	0	26
900	8	0	4	945	8	1	21	990	8	3	10	1035	9	0	27
901	8	0	5	946	8	1	22	991	8	3	11	1036	9	1	0
902	8	0	6	947	8	1	23	992	8	3	12	1037	9	1	1
903	8	0	7	948	8	1	24	993	8	3	13	1038	9	1	2
904	8	0	8	949	8	1	25	994	8	3	14	1039	9	1	3
905	8	0	9	950	8	1	26	995	8	3	15	1040	9	1	4
906	8	0	10	951	8	1	27	996	8	3	16	1041	9	1	5
907	8	0	11	952	8	2	0	997	8	3	17	1042	9	1	6
908	8	0	12	953	8	2	1	998	8	3	18	1043	9	1	7
909	8	0	13	954	8	2	2	999	8	3	19	1044	9	1	8
910	8	0	14	955	8	2	3	1000	8	3	20	1045	9	1	9
911	8	0	15	956	8	2	4	1001	8	3	21	1046	9	1	10
912	8	0	16	957	8	2	5	1002	8	3	22	1047	9	1	11
913	8	0	17	958	8	2	6	1003	8	3	23	1048	9	1	12
914	8	0	18	959	8	2	7	1004	8	3	24	1049	9	1	13
915	8	0	19	960	8	2	8	1005	8	3	25	1050	9	1	14
916	8	0	20	961	8	2	9	1006	8	3	26	1051	9	1	15
917	8	0	21	962	8	2	10	1007	8	3	27	1052	9	1	16
918	8	0	22	963	8	2	11	1008	9	0	0	1053	9	1	17
919	8	0	23	964	8	2	12	1009	9	0	1	1054	9	1	18
920	8	0	24	965	8	2	13	1010	9	0	2	1055	9	1	19
921	8	0	25	966	8	2	14	1011	9	0	3	1056	9	1	20
922	8	0	26	967	8	2	15	1012	9	0	4	1057	9	1	21
923	8	0	27	968	8	2	16	1013	9	0	5	1058	9	1	22
924	8	1	0	969	8	2	17	1014	9	0	6	1059	9	1	23
925	8	1	1	970	8	2	18	1015	9	0	7	1060	9	1	24
926	8	1	2	971	8	2	19	1016	9	0	8	1061	9	1	25
927	8	1	3	972	8	2	20	1017	9	0	9	1062	9	1	26
928	8	1	4	973	8	2	21	1018	9	0	10	1063	9	1	27

lbs.	c. qrs.	lbs.	lbs.	c. qrs.	lbs.	lbs.	c. qrs.	lbs.	lbs.	c. qrs.	lbs.				
1064	9	2	0	1109	9	3	17	1154	10	1	6	1199	10	2	23
1065	9	2	1	1110	9	3	18	1155	10	1	7	1200	10	2	24
1066	9	2	2	1111	9	3	19	1156	10	1	8	1201	10	2	25
1067	9	2	3	1112	9	3	20	1157	10	1	9	1202	10	2	26
1068	9	2	4	1113	9	3	21	1158	10	1	10	1203	10	2	27
1069	9	2	5	1114	9	3	22	1159	10	1	11	1204	10	3	0
1070	9	2	6	1115	9	3	23	1160	10	1	12	1205	10	3	1
1071	9	2	7	1116	9	3	24	1161	10	1	13	1206	10	3	2
1072	9	2	8	1117	9	3	25	1162	10	1	14	1207	10	3	3
1073	9	2	9	1118	9	3	26	1163	10	1	15	1208	10	3	4
1074	9	2	10	1119	9	3	27	1164	10	1	16	1209	10	3	5
1075	9	2	11	1120	10	0	0	1165	10	1	17	1210	10	3	6
1076	9	2	12	1121	10	0	1	1166	10	1	18	1211	10	3	7
1077	9	2	13	1122	10	0	2	1167	10	1	19	1212	10	3	8
1078	9	2	14	1123	10	0	3	1168	10	1	20	1213	10	3	9
1079	9	2	15	1124	10	0	4	1169	10	1	21	1214	10	3	10
1080	9	2	16	1125	10	0	5	1170	10	1	22	1215	10	3	11
1081	9	2	17	1126	10	0	6	1171	10	1	23	1216	10	3	12
1082	9	2	18	1127	10	0	7	1172	10	1	24	1217	10	3	13
1083	9	2	19	1128	10	0	8	1173	10	1	25	1218	10	3	14
1084	9	2	20	1129	10	0	9	1174	10	1	26	1219	10	3	15
1085	9	2	21	1130	10	0	10	1175	10	1	27	1220	10	3	16
1086	9	2	22	1131	10	0	11	1176	10	2	0	1221	10	3	17
1087	9	2	23	1132	10	0	12	1177	10	2	1	1222	10	3	18
1088	9	2	24	1133	10	0	13	1178	10	2	2	1223	10	3	19
1089	9	2	25	1134	10	0	14	1179	10	2	3	1224	10	3	20
1090	9	2	26	1135	10	0	15	1180	10	2	4	1225	10	3	21
1091	9	2	27	1136	10	0	16	1181	10	2	5	1226	10	3	22
1092	9	3	0	1137	10	0	17	1182	10	2	6	1227	10	3	23
1093	9	3	1	1138	10	0	18	1183	10	2	7	1228	10	3	24
1094	9	3	2	1139	10	0	19	1184	10	2	8	1229	10	3	25
1095	9	3	3	1140	10	0	20	1185	10	2	9	1230	10	3	26
1096	9	3	4	1141	10	0	21	1186	10	2	10	1231	10	3	27
1097	9	3	5	1142	10	0	22	1187	10	2	11	1232	11	0	0
1098	9	3	6	1143	10	0	23	1188	10	2	12	1233	11	0	1
1099	9	3	7	1144	10	0	24	1189	10	2	13	1234	11	0	2
1100	9	3	8	1145	10	0	25	1190	10	2	14	1235	11	0	3
1101	9	3	9	1146	10	0	26	1191	10	2	15	1236	11	0	4
1102	9	3	10	1147	10	0	27	1192	10	2	16	1237	11	0	5
1103	9	3	11	1148	10	1	0	1193	10	2	17	1238	11	0	6
1104	9	3	12	1149	10	1	1	1194	10	2	18	1239	11	0	7
1105	9	3	13	1150	10	1	2	1195	10	2	19	1240	11	0	8
1106	9	3	14	1151	10	1	3	1196	10	2	20	1241	11	0	9
1107	9	3	15	1152	10	1	4	1197	10	2	21	1242	11	0	10
1108	9	3	16	1153	10	1	5	1198	10	2	22	1243	11	0	11

REDUCED TO CWTS., QRS., AND LBS. 291

lbs.	c. qrs. lbs	lbs.	c. qrs. lbs.	lbs.	c. qrs. lbs.	lbs.	c. qrs. lbs.,
1244	11 0 12	1289	11 2 1	1334	11 3 18	1379	12 1 7
1245	11 0 13	1290	11 2 2	1335	11 3 19	1380	12 1 8
1246	11 0 14	1291	11 2 3	1336	11 3 20	1381	12 1 9
1247	11 0 15	1292	11 2 4	1337	11 3 21	1382	12 1 10
1248	11 0 16	1293	11 2 5	1338	11 3 22	1383	12 1 11
1249	11 0 17	1294	11 2 6	1339	11 3 23	1384	12 1 12
1250	11 0 18	1295	11 2 7	1340	11 3 24	1385	12 1 13
1251	11 0 19	1296	11 2 8	1341	11 3 25	1386	12 1 14
1252	11 0 20	1297	11 2 9	1342	11 3 26	1387	12 1 15
1253	11 0 21	1298	11 2 10	1343	11 3 27	1388	12 1 16
1254	11 0 22	1299	11 2 11	1344	12 0 0	1389	12 1 17
1255	11 0 23	1300	11 2 12	1345	12 0 1	1390	12 1 18
1256	11 0 24	1301	11 2 13	1346	12 0 2	1391	12 1 19
1257	11 0 25	1302	11 2 14	1347	12 0 3	1392	12 1 20
1258	11 0 26	1303	11 2 15	1348	12 0 4	1393	12 1 21
1259	11 0 27	1304	11 2 16	1349	12 0 5	1394	12 1 22
1260	11 1 0	1305	11 2 17	1350	12 0 6	1395	12 1 23
1261	11 1 1	1306	11 2 18	1351	12 0 7	1396	12 1 24
1262	11 1 2	1307	11 2 19	1352	12 0 8	1397	12 1 25
1263	11 1 3	1308	11 2 20	1353	12 0 9	1398	12 1 26
1264	11 1 4	1309	11 2 21	1354	12 0 10	1399	12 1 27
1265	11 1 5	1310	11 2 22	1355	12 0 11	1400	12 2 0
1266	11 1 6	1311	11 2 23	1356	12 0 12	1401	12 2 1
1267	11 1 7	1312	11 2 24	1357	12 0 13	1402	12 2 2
1268	11 1 8	1313	11 2 25	1358	12 0 14	1403	12 2 3
1269	11 1 9	1314	11 2 26	1359	12 0 15	1404	12 2 4
1270	11 1 10	1315	11 2 27	1360	12 0 16	1405	12 2 5
1271	11 1 11	1316	11 3 0	1361	12 0 17	1406	12 2 6
1272	11 1 12	1317	11 3 1	1362	12 0 18	1407	12 2 7
1273	11 1 13	1318	11 3 2	1363	12 0 19	1408	12 2 8
1274	11 1 14	1319	11 3 3	1364	12 0 20	1409	12 2 9
1275	11 1 15	1320	11 3 4	1365	12 0 21	1410	12 2 10
1276	11 1 16	1321	11 3 5	1366	12 0 22	1411	12 2 11
1277	11 1 17	1322	11 3 6	1367	12 0 23	1412	12 2 12
1278	11 1 18	1323	11 3 7	1368	12 0 24	1413	12 2 13
1279	11 1 19	1324	11 3 8	1369	12 0 25	1414	12 2 14
1280	11 1 20	1325	11 3 9	1370	12 0 26	1415	12 2 15
1281	11 1 21	1326	11 3 10	1371	12 0 27	1416	12 2 16
1282	11 1 22	1327	11 3 11	1372	12 1 0	1417	12 2 17
1283	11 1 23	1328	11 3 12	1373	12 1 1	1418	12 2 18
1284	11 1 24	1329	11 3 13	1374	12 1 2	1419	12 2 19
1285	11 1 25	1330	11 3 14	1375	12 1 3	1420	12 2 20
1286	11 1 26	1331	11 3 15	1376	12 1 4	1421	12 2 21
1287	11 1 27	1332	11 3 16	1377	12 1 5	1422	12 2 22
1288	11 2 0	1333	11 3 17	1378	12 1 6	1423	12 2 23

lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.
1424	12	2	24	1469	13	0	13	1514	13	2	2	1559	13	3	19
1425	12	2	25	1470	13	0	14	1515	13	2	3	1560	13	3	20
1426	12	2	26	1471	13	0	15	1516	13	2	4	1561	13	3	21
1427	12	2	27	1472	13	0	16	1517	13	2	5	1562	13	3	22
1428	12	3	0	1473	13	0	17	1518	13	2	6	1563	13	3	23
1429	12	3	1	1474	13	0	18	1519	13	2	7	1564	13	3	24
1430	12	3	2	1475	13	0	19	1520	13	2	8	1565	13	3	25
1431	12	3	3	1476	13	0	20	1521	13	2	9	1566	13	3	26
1432	12	3	4	1477	13	0	21	1522	13	2	10	1567	13	3	27
1433	12	3	5	1478	13	0	22	1523	13	2	11	1568	14	0	0
1434	12	3	6	1479	13	0	23	1524	13	2	12	1569	14	0	1
1435	12	3	7	1480	13	0	24	1525	13	2	13	1570	14	0	2
1436	12	3	8	1481	13	0	25	1526	13	2	14	1571	14	0	3
1437	12	3	9	1482	13	0	26	1527	13	2	15	1572	14	0	4
1438	12	3	10	1483	13	0	27	1528	13	2	16	1573	14	0	5
1439	12	3	11	1484	13	1	0	1529	13	2	17	1574	14	0	6
1440	12	3	12	1485	13	1	1	1530	13	2	18	1575	14	0	7
1441	12	3	13	1486	13	1	2	1531	13	2	19	1576	14	0	8
1442	12	3	14	1487	13	1	3	1532	13	2	20	1577	14	0	9
1443	12	3	15	1488	13	1	4	1533	13	2	21	1578	14	0	10
1444	12	3	16	1489	13	1	5	1534	13	2	22	1579	14	0	11
1445	12	3	17	1490	13	1	6	1535	13	2	23	1580	14	0	12
1446	12	3	18	1491	13	1	7	1536	13	2	24	1581	14	0	13
1447	12	3	19	1492	13	1	8	1537	13	2	25	1582	14	0	14
1448	12	3	20	1493	13	1	9	1538	13	2	26	1583	14	0	15
1449	12	3	21	1494	13	1	10	1539	13	2	27	1584	14	0	16
1450	12	3	22	1495	13	1	11	1540	13	3	0	1585	14	0	17
1451	12	3	23	1496	13	1	12	1541	13	3	1	1586	14	0	18
1452	12	3	24	1497	13	1	13	1542	13	3	2	1587	14	0	19
1453	12	3	25	1498	13	1	14	1543	13	3	3	1588	14	0	20
1454	12	3	26	1499	13	1	15	1544	13	3	4	1589	14	0	21
1455	12	3	27	1500	13	1	16	1545	13	3	5	1590	14	0	22
1456	13	0	0	1501	13	1	17	1546	13	3	6	1591	14	0	23
1457	13	0	1	1502	13	1	18	1547	13	3	7	1592	14	0	24
1458	13	0	2	1503	13	1	19	1548	13	3	8	1593	14	0	25
1459	13	0	3	1504	13	1	20	1549	13	3	9	1594	14	0	26
1460	13	0	4	1505	13	1	21	1550	13	3	10	1595	14	0	27
1461	13	0	5	1506	13	1	22	1551	13	3	11	1596	14	1	0
1462	13	0	6	1507	13	1	23	1552	13	3	12	1597	14	1	1
1463	13	0	7	1508	13	1	24	1553	13	3	13	1598	14	1	2
1464	13	0	8	1509	13	1	25	1554	13	3	14	1599	14	1	3
1465	13	0	9	1510	13	1	26	1555	13	3	15	1600	14	1	4
1466	13	0	10	1511	13	1	27	1556	13	3	16	1601	14	1	5
1467	13	0	11	1512	13	2	0	1557	13	3	17	1602	14	1	6
1468	13	0	12	1513	13	2	1	1558	13	3	18	1603	14	1	7



lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.	lbs.	c.	qrs.	lbs.				
1604	14	1	8	1624	14	2	0	1644	14	2	20	1664	14	3	12
1605	14	1	9	1625	14	2	1	1645	14	2	21	1665	14	3	13
1606	14	1	10	1626	14	2	2	1646	14	2	22	1666	14	3	14
1607	14	1	11	1627	14	2	3	1647	14	2	23	1667	14	3	15
1608	14	1	12	1628	14	2	4	1648	14	2	24	1668	14	3	16
1609	14	1	13	1629	14	2	5	1649	14	2	25	1669	14	3	17
1610	14	1	14	1630	14	2	6	1650	14	2	26	1670	14	3	18
1611	14	1	15	1631	14	2	7	1651	14	2	27	1671	14	3	19
1612	14	1	16	1632	14	2	8	1652	14	3	0	1672	14	3	20
1613	14	1	17	1633	14	2	9	1653	14	3	1	1673	14	3	21
1614	14	1	18	1634	14	2	10	1654	14	3	2	1674	14	3	22
1615	14	1	19	1635	14	2	11	1655	14	3	3	1675	14	3	23
1616	14	1	20	1636	14	2	12	1656	14	3	4	1676	14	3	24
1617	14	1	21	1637	14	2	13	1657	14	3	5	1677	14	3	25
1618	14	1	22	1638	14	2	14	1658	14	3	6	1678	14	3	26
1619	14	1	23	1639	14	2	15	1659	14	3	7	1679	14	3	27
1620	14	1	24	1640	14	2	16	1660	14	3	8	1680	15	0	0
1621	14	1	25	1641	14	2	17	1661	14	3	9				
1622	14	1	26	1642	14	2	18	1662	14	3	10				
1623	14	1	27	1643	14	2	19	1663	14	3	11				

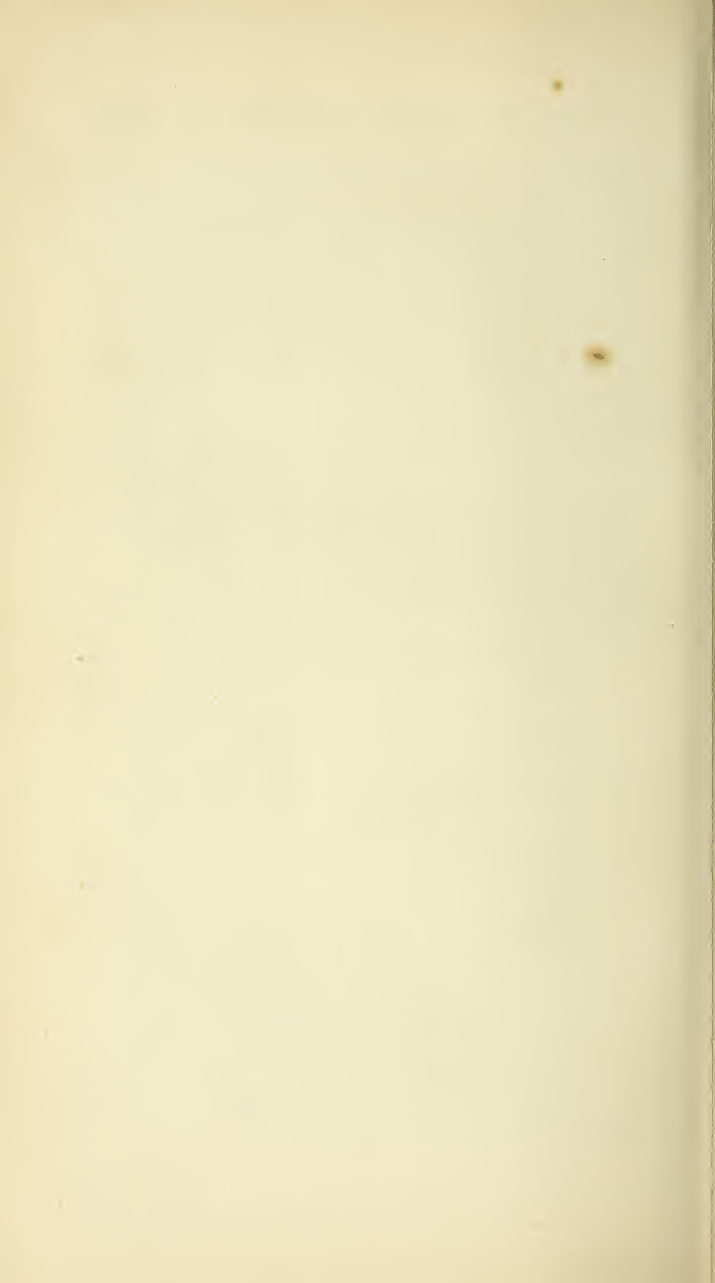


TABLE No. 21.  
WAGES TABLE.



AT ONE HALFPENNY PER HOUR.

$\frac{1}{2}$ d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
$\frac{1}{4}$				35	0	1	$5\frac{1}{2}$	71	0	2	$11\frac{1}{2}$	107	0	4	$5\frac{1}{2}$
$\frac{1}{2}$	0	0	$0\frac{1}{4}$	36	0	1	6	72	0	3	0	108	0	4	6
$\frac{3}{4}$				37	0	1	$6\frac{1}{2}$	73	0	3	$0\frac{1}{2}$	109	0	4	$6\frac{1}{2}$
1	0	0	$\frac{1}{2}$	38	0	1	7	74	0	3	1	110	0	4	7
2	0	0	1	39	0	1	$7\frac{1}{2}$	75	0	3	$1\frac{1}{2}$	111	0	4	$7\frac{1}{2}$
3	0	0	$1\frac{1}{2}$	40	0	1	8	76	0	3	2	112	0	4	8
4	0	0	2	41	0	1	$8\frac{1}{2}$	77	0	3	$2\frac{1}{2}$	113	0	4	$8\frac{1}{2}$
5	0	0	$2\frac{1}{2}$	42	0	1	9	78	0	3	3	114	0	4	9
6	0	0	3	43	0	1	$9\frac{1}{2}$	79	0	3	$3\frac{1}{2}$	115	0	4	$9\frac{1}{2}$
7	0	0	$3\frac{1}{2}$	44	0	1	10	80	0	3	4	116	0	4	10
8	0	0	4	45	0	1	$10\frac{1}{2}$	81	0	3	$4\frac{1}{2}$	117	0	4	$10\frac{1}{2}$
9	0	0	$4\frac{1}{2}$	46	0	1	11	82	0	3	5	118	0	4	11
10	0	0	5	47	0	1	$11\frac{1}{2}$	83	0	3	$5\frac{1}{2}$	119	0	4	$11\frac{1}{2}$
11	0	0	$5\frac{1}{2}$	48	0	2	0	84	0	3	6	120	0	5	0
12	0	0	6	49	0	2	$0\frac{1}{2}$	85	0	3	$6\frac{1}{2}$	121	0	5	$0\frac{1}{2}$
13	0	0	$6\frac{1}{2}$	50	0	2	1	86	0	3	7	122	0	5	1
14	0	0	7	51	0	2	$1\frac{1}{2}$	87	0	3	$7\frac{1}{2}$	123	0	5	$1\frac{1}{2}$
15	0	0	$7\frac{1}{2}$	52	0	2	2	88	0	3	8	124	0	5	2
16	0	0	8	53	0	2	$2\frac{1}{2}$	89	0	3	$8\frac{1}{2}$	125	0	5	$2\frac{1}{2}$
17	0	0	$8\frac{1}{2}$	54	0	2	3	90	0	3	9	126	0	5	3
18	0	0	9	55	0	2	$3\frac{1}{2}$	91	0	3	$9\frac{1}{2}$	127	0	5	$3\frac{1}{2}$
19	0	0	$9\frac{1}{2}$	56	0	2	4	92	0	3	10	128	0	5	4
20	0	0	10	57	0	2	$4\frac{1}{2}$	93	0	3	$10\frac{1}{2}$	129	0	5	$4\frac{1}{2}$
21	0	0	$10\frac{1}{2}$	58	0	2	5	94	0	3	11	130	0	5	5
22	0	0	11	59	0	2	$5\frac{1}{2}$	95	0	3	$11\frac{1}{2}$	131	0	5	$5\frac{1}{2}$
23	0	0	$11\frac{1}{2}$	60	0	2	6	96	0	4	0	132	0	5	6
24	0	1	0	61	0	2	$6\frac{1}{2}$	97	0	4	$0\frac{1}{2}$	133	0	5	$6\frac{1}{2}$
25	0	1	$0\frac{1}{2}$	62	0	2	7	98	0	4	1	134	0	5	7
26	0	1	1	63	0	2	$7\frac{1}{2}$	99	0	4	$1\frac{1}{2}$	135	0	5	$7\frac{1}{2}$
27	0	1	$1\frac{1}{2}$	64	0	2	8	100	0	4	2	136	0	5	8
28	0	1	2	65	0	2	$8\frac{1}{2}$	101	0	4	$2\frac{1}{2}$	137	0	5	$8\frac{1}{2}$
29	0	1	$2\frac{1}{2}$	66	0	2	9	102	0	4	3	138	0	5	9
30	0	1	3	67	0	2	$9\frac{1}{2}$	103	0	4	$3\frac{1}{2}$	139	0	5	$9\frac{1}{2}$
31	0	1	$3\frac{1}{2}$	68	0	2	10	104	0	4	4	140	0	5	10
32	0	1	4	69	0	2	$10\frac{1}{2}$	105	0	4	$4\frac{1}{2}$	141	0	5	$10\frac{1}{2}$
33	0	1	$4\frac{1}{2}$	70	0	2	11	106	0	4	5	142	0	5	11
34	0	1	5												





























AT THREEPENCE THREE FARTHINGS PER HOUR.

3 $\frac{3}{4}$ d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	1	35	0	10	11 $\frac{1}{4}$	71	1	2	2 $\frac{1}{4}$	107	1	13	5 $\frac{1}{4}$
2	0	0	1 $\frac{3}{4}$	36	0	11	3	72	1	2	6	108	1	13	9
3	0	0	2 $\frac{3}{4}$	37	0	11	6 $\frac{3}{4}$	73	1	2	9 $\frac{3}{4}$	109	1	14	0 $\frac{3}{4}$
4	0	0	3 $\frac{3}{4}$	38	0	11	10 $\frac{1}{2}$	74	1	3	1 $\frac{1}{2}$	110	1	14	4 $\frac{1}{2}$
5	0	0	4 $\frac{1}{2}$	39	0	12	2 $\frac{1}{4}$	75	1	3	5 $\frac{1}{4}$	111	1	14	8 $\frac{1}{4}$
6	0	0	5 $\frac{1}{4}$	40	0	12	6	76	1	3	9	112	1	15	0
7	0	1	3	41	0	12	9 $\frac{3}{4}$	77	1	4	0 $\frac{3}{4}$	113	1	15	3 $\frac{3}{4}$
8	0	1	6 $\frac{3}{4}$	42	0	13	1 $\frac{1}{2}$	78	1	4	4 $\frac{1}{2}$	114	1	15	7 $\frac{1}{2}$
9	0	1	10 $\frac{1}{4}$	43	0	13	5 $\frac{1}{4}$	79	1	4	8 $\frac{1}{4}$	115	1	15	11 $\frac{1}{4}$
10	0	2	2 $\frac{1}{4}$	44	0	13	9	80	1	5	0	116	1	16	3
11	0	2	6	45	0	14	0 $\frac{3}{4}$	81	1	5	3 $\frac{3}{4}$	117	1	16	6 $\frac{3}{4}$
12	0	2	9 $\frac{3}{4}$	46	0	14	4 $\frac{1}{2}$	82	1	5	7 $\frac{1}{2}$	118	1	16	10 $\frac{1}{2}$
13	0	3	1 $\frac{1}{2}$	47	0	14	8 $\frac{1}{4}$	83	1	5	11 $\frac{1}{4}$	119	1	17	2 $\frac{1}{4}$
14	0	3	5 $\frac{1}{4}$	48	0	15	0	84	1	6	3	120	1	17	6
15	0	3	9	49	0	15	3 $\frac{3}{4}$	85	1	6	6 $\frac{3}{4}$	121	1	17	9 $\frac{3}{4}$
16	0	4	0 $\frac{3}{4}$	50	0	15	7 $\frac{1}{2}$	86	1	6	10 $\frac{1}{2}$	122	1	18	1 $\frac{1}{2}$
17	0	4	4 $\frac{1}{4}$	51	0	15	11 $\frac{1}{4}$	87	1	7	2 $\frac{1}{4}$	123	1	18	5 $\frac{1}{4}$
18	0	4	8	52	0	16	3	88	1	7	6	124	1	18	9
19	0	5	0	53	0	16	6 $\frac{3}{4}$	89	1	7	9 $\frac{3}{4}$	125	1	19	0 $\frac{3}{4}$
20	0	5	3 $\frac{3}{4}$	54	0	16	10 $\frac{1}{4}$	90	1	8	1 $\frac{1}{2}$	126	1	19	4 $\frac{1}{2}$
21	0	5	7 $\frac{1}{2}$	55	0	17	2 $\frac{1}{4}$	91	1	8	5 $\frac{1}{4}$	127	1	19	8 $\frac{1}{4}$
22	0	5	11 $\frac{1}{4}$	56	0	17	6	92	1	8	9	128	2	0	0
23	0	6	3	57	0	17	9 $\frac{3}{4}$	93	1	9	0 $\frac{3}{4}$	129	2	0	3 $\frac{3}{4}$
24	0	6	6 $\frac{3}{4}$	58	0	18	1 $\frac{1}{2}$	94	1	9	4 $\frac{1}{2}$	130	2	0	7 $\frac{1}{2}$
25	0	6	10 $\frac{1}{2}$	59	0	18	5 $\frac{1}{4}$	95	1	9	8 $\frac{1}{4}$	131	2	0	11 $\frac{1}{4}$
26	0	7	2 $\frac{1}{4}$	60	0	18	9	96	1	10	0	132	2	1	3
27	0	7	6	61	0	19	0 $\frac{3}{4}$	97	1	10	3 $\frac{3}{4}$	133	2	1	6 $\frac{3}{4}$
28	0	7	9 $\frac{3}{4}$	62	0	19	4 $\frac{1}{2}$	98	1	10	7 $\frac{1}{2}$	134	2	1	10 $\frac{1}{2}$
29	0	8	1 $\frac{1}{2}$	63	0	19	8 $\frac{1}{4}$	99	1	10	11 $\frac{1}{4}$	135	2	2	2 $\frac{1}{4}$
30	0	8	5 $\frac{1}{4}$	64	1	0	0	100	1	11	3	136	2	2	6
31	0	8	9	65	1	0	3 $\frac{3}{4}$	101	1	11	6 $\frac{3}{4}$	137	2	2	9 $\frac{3}{4}$
32	0	9	0 $\frac{3}{4}$	66	1	0	7 $\frac{1}{2}$	102	1	11	10 $\frac{1}{2}$	138	2	3	1 $\frac{1}{2}$
33	0	9	4 $\frac{1}{4}$	67	1	0	11 $\frac{1}{4}$	103	1	12	2 $\frac{1}{4}$	139	2	3	5 $\frac{1}{4}$
34	0	9	8 $\frac{1}{4}$	68	1	1	3	104	1	12	6	140	2	3	9
35	0	10	0	69	1	1	6 $\frac{3}{4}$	105	1	12	9 $\frac{3}{4}$	141	2	4	0 $\frac{3}{4}$
36	0	10	3 $\frac{3}{4}$	70	1	1	10 $\frac{1}{2}$	106	1	13	1 $\frac{1}{2}$	142	2	4	4 $\frac{1}{2}$





WAGES TABLE.

313

AT FOURPENCE HALFPENNY PER HOUR.

4½d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
¼	0	0	1	35	0	13	1½	71	1	6	7½	107	2	0	1½
½	0	0	2¼	36	0	13	6	72	1	7	0	108	2	0	6
¾	0	0	3¼	37	0	13	10½	73	1	7	4½	109	2	3	10½
1	0	0	4½	38	0	14	3	74	1	7	9	110	2	1	3
2	0	0	9	39	0	14	7½	75	1	8	1½	111	2	1	7½
3	0	1	1½	40	0	15	0	76	1	8	6	112	2	2	0
4	0	1	6	41	0	15	4½	77	1	8	10½	113	2	2	4½
5	0	1	10½	42	0	15	9	78	1	9	3	114	2	2	9
6	0	2	3	43	0	16	1½	79	1	9	7½	115	2	3	1½
7	0	2	7½	44	0	16	6	80	1	10	0	116	2	3	6
8	0	3	0	45	0	16	10½	81	1	10	4½	117	2	3	10½
9	0	3	4½	46	0	17	3	82	1	10	9	118	2	4	3
10	0	3	9	47	0	17	7½	83	1	11	1½	119	2	4	7½
11	0	4	1½	48	0	18	0	84	1	11	6	120	2	5	0
12	0	4	6	49	0	18	4½	85	1	11	10½	121	2	5	4½
13	0	4	10½	50	0	18	9	86	1	12	3	122	2	5	9
14	0	5	3	51	0	19	1½	87	1	12	7½	123	2	6	1½
15	0	5	7½	52	0	19	6	88	1	13	0	124	2	6	6
16	0	6	0	53	0	19	10½	89	1	13	4½	125	2	6	10½
17	0	6	4½	54	1	0	3	90	1	13	9	126	2	7	3
18	0	6	9	55	1	0	7½	91	1	14	1½	127	2	7	7½
19	0	7	1½	56	1	1	0	92	1	14	6	128	2	8	0
20	0	7	6	57	1	1	4½	93	1	14	10½	129	2	8	4½
21	0	7	10½	58	1	1	9	94	1	15	3	130	2	8	9
22	0	8	3	59	1	2	1½	95	1	15	7½	131	2	9	1½
23	0	8	7½	60	1	2	6	96	1	16	0	132	2	9	6
24	0	9	0	61	1	2	10½	97	1	16	4½	133	2	9	10½
25	0	9	4½	62	1	3	3	98	1	16	9	134	2	10	3
26	0	9	9	63	1	3	7½	99	1	17	1½	135	2	10	7½
27	0	10	1½	64	1	4	0	100	1	17	6	136	2	11	0
28	0	10	6	65	1	4	4½	101	1	17	10½	137	2	11	4½
29	0	10	10½	66	1	4	9	102	1	18	3	138	2	11	9
30	0	11	3	67	1	5	1½	103	1	18	7½	139	2	12	1½
31	0	11	7½	68	1	5	6	104	1	19	0	140	2	12	6
32	0	12	0	69	1	5	10½	105	1	19	4½	141	2	12	10½
33	0	12	4½	70	1	6	3	106	1	19	9	142	2	13	3
34	0	12	9												

AT FOURPENCE THREE FARTHINGS PER HOUR.

 $4\frac{3}{4}$ d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	$1\frac{1}{4}$	35	0	13	$10\frac{1}{4}$	71	1	8	$1\frac{1}{4}$	107	2	2	$4\frac{1}{4}$
$1\frac{1}{4}$	0	0	$2\frac{1}{4}$	36	0	14	3	72	1	8	6	108	2	2	9
$2\frac{1}{4}$	0	0	$3\frac{1}{4}$	37	0	14	$7\frac{3}{4}$	73	1	8	$10\frac{3}{4}$	109	2	3	$1\frac{3}{4}$
3	0	0	$4\frac{1}{4}$	38	0	15	$0\frac{1}{2}$	74	1	9	$3\frac{1}{2}$	110	2	3	$6\frac{1}{2}$
4	0	0	$5\frac{1}{4}$	39	0	15	$5\frac{1}{4}$	75	1	9	$8\frac{1}{4}$	111	2	3	$11\frac{1}{4}$
5	0	1	$7\frac{1}{4}$	40	0	15	10	76	1	10	1	112	2	4	4
6	0	1	$8\frac{1}{4}$	41	0	16	$2\frac{3}{4}$	77	1	10	$5\frac{3}{4}$	113	2	4	$8\frac{3}{4}$
7	0	2	$9\frac{1}{4}$	42	0	16	$7\frac{1}{4}$	78	1	10	$10\frac{1}{2}$	114	2	5	$1\frac{1}{2}$
8	0	2	$10\frac{1}{4}$	43	0	17	$0\frac{1}{4}$	79	1	11	$3\frac{1}{4}$	115	2	5	$6\frac{1}{4}$
9	0	3	$11\frac{1}{4}$	44	0	17	5	80	1	11	8	116	2	5	11
10	0	3	$12\frac{1}{4}$	45	0	17	$9\frac{3}{4}$	81	1	12	$0\frac{3}{4}$	117	2	6	$3\frac{3}{4}$
11	0	3	$13\frac{1}{4}$	46	0	18	$2\frac{1}{2}$	82	1	12	$5\frac{1}{2}$	118	2	6	$8\frac{1}{2}$
12	0	4	$14\frac{1}{4}$	47	0	18	$7\frac{1}{4}$	83	1	12	$10\frac{1}{4}$	119	2	7	$1\frac{1}{4}$
13	0	4	$15\frac{1}{4}$	48	0	19	0	84	1	13	3	120	2	7	6
14	0	5	$16\frac{1}{4}$	49	0	19	$4\frac{3}{4}$	85	1	13	$7\frac{3}{4}$	121	2	7	$10\frac{3}{4}$
15	0	5	$17\frac{1}{4}$	50	0	19	$9\frac{1}{2}$	86	1	14	$0\frac{1}{2}$	122	2	8	$3\frac{1}{2}$
16	0	6	$18\frac{1}{4}$	51	1	0	$2\frac{1}{4}$	87	1	14	$5\frac{1}{4}$	123	2	8	$8\frac{1}{4}$
17	0	6	$19\frac{1}{4}$	52	1	0	7	88	1	14	10	124	2	9	1
18	0	6	$20\frac{1}{4}$	53	1	0	$11\frac{3}{4}$	89	1	15	$2\frac{3}{4}$	125	2	9	$5\frac{3}{4}$
19	0	7	$21\frac{1}{4}$	54	1	1	$4\frac{1}{2}$	90	1	15	$7\frac{1}{2}$	126	2	9	$10\frac{1}{2}$
20	0	7	$22\frac{1}{4}$	55	1	1	$9\frac{1}{4}$	91	1	16	$0\frac{1}{4}$	127	2	10	$3\frac{1}{4}$
21	0	7	$23\frac{1}{4}$	56	1	2	2	92	1	16	5	128	2	10	8
22	0	8	$24\frac{1}{4}$	57	1	2	$6\frac{3}{4}$	93	1	16	$9\frac{3}{4}$	129	2	11	$0\frac{3}{4}$
23	0	8	$25\frac{1}{4}$	58	1	2	$11\frac{1}{2}$	94	1	17	$2\frac{1}{2}$	130	2	11	$5\frac{1}{2}$
24	0	9	$26\frac{1}{4}$	59	1	3	$4\frac{1}{4}$	95	1	17	$7\frac{1}{4}$	131	2	11	$10\frac{1}{4}$
25	0	9	$27\frac{1}{4}$	60	1	3	9	96	1	18	0	132	2	12	3
26	0	10	$28\frac{1}{4}$	61	1	4	$1\frac{3}{4}$	97	1	18	$4\frac{3}{4}$	133	2	12	$7\frac{3}{4}$
27	0	10	$29\frac{1}{4}$	62	1	4	$6\frac{1}{2}$	98	1	18	$9\frac{1}{2}$	134	2	13	$0\frac{1}{2}$
28	0	11	$30\frac{1}{4}$	63	1	4	$11\frac{1}{4}$	99	1	19	$2\frac{1}{4}$	135	2	13	$5\frac{1}{4}$
29	0	11	$31\frac{1}{4}$	64	1	5	4	100	1	19	7	136	2	13	10
30	0	11	$32\frac{1}{4}$	65	1	5	$8\frac{3}{4}$	101	1	19	$11\frac{3}{4}$	137	2	14	$2\frac{3}{4}$
31	0	12	$33\frac{1}{4}$	66	1	6	$1\frac{1}{2}$	102	2	0	$4\frac{1}{2}$	138	2	14	$7\frac{1}{2}$
32	0	12	$34\frac{1}{4}$	67	1	6	$6\frac{1}{4}$	103	2	0	$9\frac{1}{4}$	139	2	15	$0\frac{1}{4}$
33	0	13	$35\frac{1}{4}$	68	1	6	11	104	2	1	2	140	2	15	5
34	0	13	$36\frac{1}{4}$	69	1	7	$3\frac{3}{4}$	105	2	1	$6\frac{3}{4}$	141	2	15	$9\frac{3}{4}$
				70	1	7	$8\frac{1}{2}$	106	2	1	$11\frac{1}{2}$	142	2	16	$2\frac{1}{2}$

AT FIVEPENCE PER HOUR.

5d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	1 $\frac{1}{4}$	35	0	14	7	71	1	9	7	107	2	4	7
2	0	0	2 $\frac{1}{2}$	36	0	15	0	72	1	10	0	108	2	5	0
3	0	0	3 $\frac{1}{4}$	37	0	15	5	73	1	10	5	109	2	5	5
4	0	0	5	38	0	15	10	74	1	10	10	110	2	5	10
5	0	0	10	39	0	16	3	75	1	11	3	111	2	6	3
6	0	1	3	40	0	16	8	76	1	11	8	112	2	6	8
7	0	1	8	41	0	17	1	77	1	12	1	113	2	7	1
8	0	2	1	42	0	17	6	78	1	12	6	114	2	7	6
9	0	2	6	43	0	17	11	79	1	12	11	115	2	7	11
10	0	2	11	44	0	18	4	80	1	13	4	116	2	8	4
11	0	3	4	45	0	18	9	81	1	13	9	117	2	8	9
12	0	3	9	46	0	19	2	82	1	14	2	118	2	9	2
13	0	4	2	47	0	19	7	83	1	14	7	119	2	9	7
14	0	4	7	48	1	0	0	84	1	15	0	120	2	10	0
15	0	5	0	49	1	0	5	85	1	15	5	121	2	10	5
16	0	5	5	50	1	0	10	86	1	15	10	122	2	10	10
17	0	5	10	51	1	1	3	87	1	16	3	123	2	11	3
18	0	6	3	52	1	1	8	88	1	16	8	124	2	11	8
19	0	6	8	53	1	2	1	89	1	17	1	125	2	12	1
20	0	7	1	54	1	2	6	90	1	17	6	126	2	12	6
21	0	7	6	55	1	2	11	91	1	17	11	127	2	12	11
22	0	7	11	56	1	3	4	92	1	18	4	128	2	13	4
23	0	8	4	57	1	3	9	93	1	18	9	129	2	13	9
24	0	8	9	58	1	4	2	94	1	19	2	130	2	14	2
25	0	9	2	59	1	4	7	95	1	19	7	131	2	14	7
26	0	9	7	60	1	5	0	96	2	0	0	132	2	15	0
27	0	10	0	61	1	5	5	97	2	0	5	133	2	15	5
28	0	10	5	62	1	5	10	98	2	0	10	134	2	15	10
29	0	10	10	63	1	6	3	99	2	1	3	135	2	16	3
30	0	11	3	64	1	6	8	100	2	1	8	136	2	16	8
31	0	11	8	65	1	7	1	101	2	2	1	137	2	17	1
32	0	12	1	66	1	7	6	102	2	2	6	138	2	17	6
33	0	12	6	67	1	7	11	103	2	2	11	139	2	17	11
34	0	12	11	68	1	8	4	104	2	3	4	140	2	18	4
	0	13	4	69	1	8	9	105	2	3	9	141	2	18	9
	0	13	9	70	1	9	2	106	2	4	2	142	2	19	2
	0	14	2												

## AT FIVEPENCE FARTHING PER HOUR

5¼d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	1¼	35	0	15	3¾	71	1	11	0¾	107	2	6	9¾
2	0	0	2¼	36	0	15	9	72	1	11	6	108	2	7	3
3	0	0	3¼	37	0	16	2¼	73	1	11	11¼	109	2	7	8¼
4	0	0	4¼	38	0	16	7¾	74	1	12	4¾	110	2	8	1¾
5	0	0	5¼	39	0	17	0¼	75	1	12	9¼	111	2	8	6¼
6	0	1	9	40	0	17	6	76	1	13	3	112	2	9	0
7	0	1	9	41	0	17	11¼	77	1	13	8¼	113	2	9	5¼
8	0	2	2¼	42	0	18	4¾	78	1	14	1¾	114	2	9	10¼
9	0	2	7¾	43	0	18	9¼	79	1	14	6¾	115	2	10	3¾
10	0	3	0¼	44	0	19	3	80	1	15	0	116	2	10	9
11	0	3	6	45	0	19	8¼	81	1	15	5¼	117	2	11	2¼
12	0	3	11¼	46	1	0	1¾	82	1	15	10¼	118	2	11	7¼
13	0	4	4¾	47	1	0	6¼	83	1	16	3¾	119	2	12	0¼
14	0	4	9¼	48	1	1	0	84	1	16	9	120	2	12	6
15	0	5	3	49	1	1	5¼	85	1	17	2¼	121	2	12	11¼
16	0	5	8¼	50	1	1	10¼	86	1	17	7¾	122	2	13	4¾
17	0	6	1¾	51	1	2	3¾	87	1	18	0¼	123	2	13	9¾
18	0	6	6¾	52	1	2	9	88	1	18	6	124	2	14	3
19	0	7	0	53	1	3	2¼	89	1	18	11¼	125	2	14	8¼
20	0	7	5¼	54	1	3	7¾	90	1	19	4¾	126	2	15	1¾
21	0	7	10¼	55	1	4	0¼	91	1	19	9¼	127	2	15	6¼
22	0	8	3¾	56	1	4	6	92	2	0	3	128	2	16	0
23	0	8	9	57	1	4	11¼	93	2	0	8¼	129	2	16	5¼
24	0	9	2¼	58	1	5	4¾	94	2	1	1¾	130	2	16	10¼
25	0	9	7¾	59	1	5	9¼	95	2	1	6¼	131	2	17	3¾
26	0	10	0¼	60	1	6	3	96	2	2	0	132	2	17	9
27	0	10	6	61	1	6	8¼	97	2	2	5¼	133	2	18	2¼
28	0	10	11¼	62	1	7	1¾	98	2	2	10¼	134	2	18	7¼
29	0	11	4¾	63	1	7	6¼	99	2	3	3¾	135	2	19	0¼
30	0	11	9¼	64	1	8	0	100	2	3	9	136	2	19	6
31	0	12	3	65	1	8	5¼	101	2	4	2¼	137	2	19	11¼
32	0	12	8¼	66	1	8	10¼	102	2	4	7¾	138	3	0	4¾
33	0	13	1¾	67	1	9	3¾	103	2	5	0¼	139	3	0	9¾
34	0	13	6¾	68	1	9	9	104	2	5	6	140	3	1	3
35	0	14	0	69	1	10	2¼	105	2	5	11¼	141	3	1	8¼
36	0	14	5¼	70	1	10	7¾	106	2	6	4¾	142	3	2	1¾



AT FIVEPENCE HALFPENNY PER HOUR.

5½d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	1¼	35	0	16	0½	71	1	12	6½	107	2	9	0½
2	0	0	2¾	36	0	16	6	72	1	13	0	108	2	9	6
3	0	0	4	37	0	16	11½	73	1	13	5½	109	2	9	11½
4	0	0	5½	38	0	17	5	74	1	13	11	110	2	10	5
5	0	1	11	39	0	17	10½	75	1	14	4½	111	2	10	10½
6	0	1	4½	40	0	18	4	76	1	14	10	112	2	11	4
7	0	1	10	41	0	18	9½	77	1	15	3½	113	2	11	9½
8	0	2	3½	42	0	19	3	78	1	15	9	114	2	12	3
9	0	2	9	43	0	19	8½	79	1	16	2½	115	2	12	8½
10	0	3	2½	44	1	0	2	80	1	16	8	116	2	13	2
11	0	3	8	45	1	0	7½	81	1	17	1½	117	2	13	7½
12	0	4	1½	46	1	1	1	82	1	17	7	118	2	14	1
13	0	4	7	47	1	1	6½	83	1	18	0½	119	2	14	6½
14	0	5	0½	48	1	2	0	84	1	18	6	120	2	15	0
15	0	5	6	49	1	2	5½	85	1	18	11½	121	2	15	5½
16	0	5	11½	50	1	2	11	86	1	19	5	122	2	15	11
17	0	6	5	51	1	3	4½	87	1	19	10½	123	2	16	4½
18	0	6	10½	52	1	3	10	88	2	0	4	124	2	16	10
19	0	7	4	53	1	4	3½	89	2	0	9½	125	2	17	3½
20	0	7	9½	54	1	4	9	90	2	1	3	126	2	17	9
21	0	8	3	55	1	5	2½	91	2	1	8½	127	2	18	2½
22	0	8	8½	56	1	5	8	92	2	2	2	128	2	18	8
23	0	9	2	57	1	6	1½	93	2	2	7½	129	2	19	1½
24	0	9	7½	58	1	6	7	94	2	3	1	130	2	19	7
25	0	10	1	59	1	7	0½	95	2	3	6½	131	3	0	0½
26	0	10	6½	60	1	7	6	96	2	4	0	132	3	0	6
27	0	11	0	61	1	7	11½	97	2	4	5½	133	3	0	11½
28	0	11	5½	62	1	8	5	98	2	4	11	134	3	1	5
29	0	11	11	63	1	8	10½	99	2	5	4½	135	3	1	10½
30	0	12	4½	64	1	9	4	100	2	5	10	136	3	2	4
31	0	12	10	65	1	9	9½	101	2	6	3½	137	3	2	9½
32	0	13	3½	66	1	10	3	102	2	6	9	138	3	3	3
33	0	13	9	67	1	10	8½	103	2	7	2½	139	3	3	8½
34	0	14	2½	68	1	11	2	104	2	7	8	140	3	4	2
35	0	14	8	69	1	11	7½	105	2	8	1½	141	3	4	7½
36	0	15	1½	70	1	12	1	106	2	8	7	142	3	5	1





AT SIXPENCE FARTHING PER HOUR.

6¼d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	1½	35	0	18	2¾	71	1	16	11¾	107	2	15	8¾
2	0	0	3	36	0	18	9	72	1	17	6	108	2	16	3
3	0	0	4½	37	0	19	3¼	73	1	18	0¼	109	2	16	9¼
4	0	0	6	38	0	19	9¾	74	1	18	6¼	110	2	17	3¾
5	0	1	0¾	39	1	0	3¾	75	1	19	0¾	111	2	17	9¾
6	0	1	6¾	40	1	0	10	76	1	19	7	112	2	18	4
7	0	2	1	41	1	1	4¼	77	2	0	1¼	113	2	18	10¼
8	0	2	7¼	42	1	1	10¾	78	2	0	7¾	114	2	19	4¾
9	0	3	1¾	43	1	2	4¼	79	2	1	1¼	115	2	19	10¾
10	0	3	7¾	44	1	2	11	80	2	1	8	116	3	0	5
11	0	4	2	45	1	3	5¼	81	2	2	2¼	117	3	0	11¼
12	0	4	8¼	46	1	3	11¾	82	2	2	8¾	118	3	1	5¾
13	0	5	2¾	47	1	4	5¾	83	2	3	2¾	119	3	1	11¾
14	0	5	8¾	48	1	5	0	84	2	3	9	120	3	2	6
15	0	6	3	49	1	5	6¼	85	2	4	3¼	121	3	3	0¼
16	0	6	9¾	50	1	6	0¼	86	2	4	9¼	122	3	3	6¼
17	0	7	3¾	51	1	6	6¾	87	2	5	3¾	123	3	4	0¾
18	0	7	9¾	52	1	7	1	88	2	5	10	124	3	4	7
19	0	8	4	53	1	7	7¼	89	2	6	4¼	125	3	5	1¼
20	0	8	10¼	54	1	8	1¼	90	2	6	10¼	126	3	5	7¼
21	0	9	4¼	55	1	8	7¾	91	2	7	4¾	127	3	6	1¾
22	0	9	10¾	56	1	9	2	92	2	7	11	128	3	6	8
23	0	10	5	57	1	9	8¼	93	2	8	5¼	129	3	7	2¼
24	0	10	11¼	58	1	10	2¼	94	2	8	11¼	130	3	7	8¼
25	0	11	5¼	59	1	10	8¾	95	2	9	5¾	131	3	8	2¾
26	0	11	11¾	60	1	11	3	96	2	10	0	132	3	8	9
27	0	12	6	61	1	11	9¼	97	2	10	6¼	133	3	9	3¼
28	0	13	0¼	62	1	12	3¾	98	2	11	0¾	134	3	9	9¾
29	0	13	6¾	63	1	12	9¾	99	2	11	6¾	135	3	10	3¾
30	0	14	0¾	64	1	13	4	100	2	12	1	136	3	10	10
31	0	14	7	65	1	13	10¼	101	2	12	7¼	137	3	11	4¼
32	0	15	1¼	66	1	14	4¾	102	2	13	1¾	138	3	11	10¾
33	0	15	7¾	67	1	14	10¾	103	2	13	7¾	139	3	12	4¾
34	0	16	1¾	68	1	15	5	104	2	14	2	140	3	12	11
35	0	16	8	69	1	15	11¼	105	2	14	8¼	141	3	13	5¼
36	0	17	2¼	70	1	16	5½	106	2	15	2½	142	3	13	11½

AT SIXPENCE HALFPENNY PER HOUR.

6½d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	1½	35	0	18	11½	71	1	18	5½	107	2	17	11½
2	0	0	3¼	36	0	19	6	72	1	19	0	108	2	18	6
3	0	0	4¾	37	1	0	0½	73	1	19	6½	109	2	19	0½
4	0	0	6½	38	1	0	7	74	2	0	1	110	2	19	7
5	0	1	1	39	1	1	1½	75	2	0	7½	111	3	0	1½
6	0	1	7½	40	1	1	8	76	2	1	2	112	3	0	8
7	0	2	2	41	1	2	2½	77	2	1	8½	113	3	1	2½
8	0	2	8½	42	1	2	9	78	2	2	3	114	3	1	9
9	0	3	3	43	1	3	3½	79	2	2	9½	115	3	2	3½
10	0	3	9½	44	1	3	10	80	2	3	4	116	3	2	10
11	0	4	4	45	1	4	4½	81	2	3	10½	117	3	3	4½
12	0	4	10½	46	1	4	11	82	2	4	5	118	3	3	11
13	0	5	5	47	1	5	5½	83	2	4	11½	119	3	4	5½
14	0	5	11½	48	1	6	0	84	2	5	6	120	3	5	0
15	0	6	6	49	1	6	6½	85	2	6	0½	121	3	5	6½
16	0	7	0½	50	1	7	1	86	2	6	7	122	3	6	1
17	0	7	7	51	1	7	7½	87	2	7	1½	123	3	6	7½
18	0	8	1½	52	1	8	2	88	2	7	8	124	3	7	2
19	0	8	8	53	1	8	8½	89	2	8	2½	125	3	7	8½
20	0	9	2½	54	1	9	3	90	2	8	9	126	3	8	3
21	0	9	9	55	1	9	9½	91	2	9	3½	127	3	8	9½
22	0	10	3½	56	1	10	4	92	2	9	10	128	3	9	4
23	0	10	10	57	1	10	10½	93	2	10	4½	129	3	9	10½
24	0	11	4½	58	1	11	5	94	2	10	11	130	3	10	5
25	0	11	11	59	1	11	11½	95	2	11	5½	131	3	10	11½
26	0	12	5½	60	1	12	6	96	2	12	0	132	3	11	6
27	0	13	0	61	1	13	0½	97	2	12	6½	133	3	12	0½
28	0	13	6½	62	1	13	7	98	2	13	1	134	3	12	7
29	0	14	1	63	1	14	1½	99	2	13	7½	135	3	13	1½
30	0	14	7½	64	1	14	8	100	2	14	2	136	3	13	8
31	0	15	2	65	1	15	2½	101	2	14	8½	137	3	14	2½
32	0	15	8½	66	1	15	9	102	2	15	3	138	3	14	9
33	0	16	3	67	1	16	3½	103	2	15	9½	139	3	15	3½
34	0	16	9½	68	1	16	10	104	2	16	4	140	3	15	10
35	0	17	4	69	1	17	4½	105	2	16	10½	141	3	16	4½
36	0	17	10½	70	1	17	11	106	2	17	5	142	3	16	11

AT SIXPENCE THREE FARTHINGS PER HOUR.

6 $\frac{3}{4}$ d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
$\frac{1}{4}$	0	0	1 $\frac{1}{2}$	35	0	19	8 $\frac{1}{4}$	71	1	19	11 $\frac{1}{4}$	107	3	0	2 $\frac{1}{4}$
0	0	0	3 $\frac{3}{4}$	36	1	0	3	72	2	0	6	108	3	0	9
1	0	0	5	37	1	0	9 $\frac{3}{4}$	73	2	1	0 $\frac{3}{4}$	109	3	1	3 $\frac{3}{4}$
2	0	1	1 $\frac{1}{4}$	38	1	1	4 $\frac{1}{2}$	74	2	1	7 $\frac{1}{4}$	110	3	1	10 $\frac{1}{2}$
3	0	1	8 $\frac{1}{4}$	39	1	1	11 $\frac{1}{4}$	75	2	2	2 $\frac{1}{4}$	111	3	2	5 $\frac{1}{4}$
4	0	2	3	40	1	2	6	76	2	2	9	112	3	3	0
5	0	2	9 $\frac{3}{4}$	41	1	3	0 $\frac{3}{4}$	77	2	3	3 $\frac{3}{4}$	113	3	3	6 $\frac{3}{4}$
6	0	3	4 $\frac{1}{2}$	42	1	3	7 $\frac{1}{2}$	78	2	3	10 $\frac{1}{2}$	114	3	4	1 $\frac{1}{2}$
7	0	3	11 $\frac{1}{4}$	43	1	4	2 $\frac{1}{4}$	79	2	4	5 $\frac{1}{4}$	115	3	4	8 $\frac{1}{4}$
8	0	4	6	44	1	4	9	80	2	5	0	116	3	5	3
9	0	5	0 $\frac{3}{4}$	45	1	5	3 $\frac{3}{4}$	81	2	5	6 $\frac{3}{4}$	117	3	5	9 $\frac{3}{4}$
10	0	5	7 $\frac{1}{2}$	46	1	5	10 $\frac{1}{2}$	82	2	6	1 $\frac{1}{2}$	118	3	6	4 $\frac{1}{2}$
11	0	6	2 $\frac{1}{4}$	47	1	6	5 $\frac{1}{4}$	83	2	6	8 $\frac{1}{4}$	119	3	6	11 $\frac{1}{4}$
12	0	6	9	48	1	7	0	84	2	7	3	120	3	7	6
13	0	7	3 $\frac{3}{4}$	49	1	7	6 $\frac{3}{4}$	85	2	7	9 $\frac{3}{4}$	121	3	8	0 $\frac{3}{4}$
14	0	7	10 $\frac{1}{4}$	50	1	8	1 $\frac{1}{2}$	86	2	8	4 $\frac{1}{2}$	122	3	8	7 $\frac{1}{2}$
15	0	8	5 $\frac{1}{4}$	51	1	8	8 $\frac{1}{4}$	87	2	8	11 $\frac{1}{4}$	123	3	9	2 $\frac{1}{4}$
16	0	9	0	52	1	9	3	88	2	9	6	124	3	9	9
17	0	9	6 $\frac{3}{4}$	53	1	9	9 $\frac{3}{4}$	89	2	10	0 $\frac{3}{4}$	125	3	10	3 $\frac{3}{4}$
18	0	10	1 $\frac{1}{2}$	54	1	10	4 $\frac{1}{2}$	90	2	10	7 $\frac{1}{2}$	126	3	10	10 $\frac{1}{2}$
19	0	10	8 $\frac{1}{4}$	55	1	10	11 $\frac{1}{4}$	91	2	11	2 $\frac{1}{4}$	127	3	11	5 $\frac{1}{4}$
20	0	11	3	56	1	11	6	92	2	11	9	128	3	12	0
21	0	11	9 $\frac{3}{4}$	57	1	12	0 $\frac{3}{4}$	93	2	12	3 $\frac{3}{4}$	129	3	12	6 $\frac{3}{4}$
22	0	12	4 $\frac{1}{2}$	58	1	12	7 $\frac{1}{2}$	94	2	12	10 $\frac{1}{2}$	130	3	13	1 $\frac{1}{2}$
23	0	12	11 $\frac{1}{4}$	59	1	13	2 $\frac{1}{4}$	95	2	13	5 $\frac{1}{4}$	131	3	13	8 $\frac{1}{4}$
24	0	13	6	60	1	13	9	96	2	14	0	132	3	14	3
25	0	14	0 $\frac{3}{4}$	61	1	14	3 $\frac{3}{4}$	97	2	14	6 $\frac{3}{4}$	133	3	14	9 $\frac{3}{4}$
26	0	14	7 $\frac{1}{2}$	62	1	14	10 $\frac{1}{2}$	98	2	15	1 $\frac{1}{2}$	134	3	15	4 $\frac{1}{2}$
27	0	15	2 $\frac{1}{4}$	63	1	15	5 $\frac{1}{4}$	99	2	15	8 $\frac{1}{4}$	135	3	15	11 $\frac{1}{4}$
28	0	15	9	64	1	16	0	100	2	16	3	136	3	16	6
29	0	16	3 $\frac{3}{4}$	65	1	16	6 $\frac{3}{4}$	101	2	16	9 $\frac{3}{4}$	137	3	17	0 $\frac{3}{4}$
30	0	16	10 $\frac{1}{4}$	66	1	17	1 $\frac{1}{2}$	102	2	17	4 $\frac{1}{2}$	138	3	17	7 $\frac{1}{2}$
31	0	17	5 $\frac{1}{4}$	67	1	17	8 $\frac{1}{4}$	103	2	17	11 $\frac{1}{4}$	139	3	18	2 $\frac{1}{4}$
32	0	18	0	68	1	18	3	104	2	18	6	140	3	18	9
33	0	18	6 $\frac{3}{4}$	69	1	18	9 $\frac{3}{4}$	105	2	19	0 $\frac{3}{4}$	141	3	19	3 $\frac{3}{4}$
34	0	19	1 $\frac{1}{2}$	70	1	19	4 $\frac{1}{2}$	106	2	19	7 $\frac{1}{2}$	142	3	19	10 $\frac{1}{2}$

























WAGES TABLE.

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AT NINEPENCE HALFPENNY PER HOUR.

9½d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	2¼	35	1	7	8½	71	2	16	2½	107	4	4	8½
2	0	0	4¾	36	1	8	6	72	2	17	0	108	4	5	6
3	0	0	7	37	1	9	3½	73	2	17	9½	109	4	6	3½
4	0	0	9½	38	1	10	1	74	2	18	7	110	4	7	1
5	0	1	7	39	1	10	10½	75	2	19	4½	111	4	7	10½
6	0	2	4½	40	1	11	8	76	3	0	2	112	4	8	8
7	0	3	2	41	1	12	5½	77	3	0	11½	113	4	9	5½
8	0	4	9	42	1	13	3	78	3	1	9	114	4	10	3
9	0	5	6½	43	1	14	0½	79	3	2	6½	115	4	11	0½
10	0	6	4	44	1	14	10	80	3	3	4	116	4	11	10
11	0	7	1½	45	1	15	7½	81	3	4	1½	117	4	12	7½
12	0	7	11	46	1	16	5	82	3	4	11	118	4	13	5
13	0	8	8½	47	1	17	2½	83	3	5	8½	119	4	14	2½
14	0	8	6	48	1	18	0	84	3	6	6	120	4	15	0
15	0	9	3½	49	1	18	9½	85	3	7	3½	121	4	15	9½
16	0	10	1	50	1	19	7	86	3	8	1	122	4	16	7
17	0	11	10½	51	2	0	4½	87	3	8	10½	123	4	17	4½
18	0	11	8	52	2	1	2	88	3	9	8	124	4	18	2
19	0	12	5½	53	2	1	11½	89	3	10	5½	125	4	18	11½
20	0	13	3	54	2	2	9	90	3	11	3	126	4	19	9
21	0	14	0½	55	2	3	6½	91	3	12	0½	127	5	0	6½
22	0	15	10	56	2	4	4	92	3	12	10	128	5	1	4
23	0	15	7½	57	2	5	1½	93	3	13	7½	129	5	2	1½
24	0	16	5	58	2	5	11	94	3	14	5	130	5	2	11
25	0	17	2½	59	2	6	8½	95	3	15	2½	131	5	3	8½
26	0	18	0	60	2	7	6	96	3	16	0	132	5	4	6
27	0	19	9½	61	2	8	3½	97	3	16	9½	133	5	5	3½
28	0	19	7	62	2	9	1	98	3	17	7	134	5	6	1
29	1	0	4½	63	2	9	10½	99	3	18	4½	135	5	6	10½
30	1	1	2	64	2	10	8	100	3	19	2	136	5	7	7
31	1	2	11½	65	2	11	5½	101	3	19	11½	137	5	8	4½
32	1	2	9	66	2	12	3	102	4	0	9	138	5	9	3
33	1	3	6½	67	2	13	0½	103	4	1	6½	139	5	10	0½
34	1	4	4	68	2	13	10	104	4	2	4	140	5	10	10
35	1	5	1½	69	2	14	7½	105	4	3	1½	141	5	11	7½
36	1	6	11	70	2	15	5	106	4	3	11	142	5	12	5





AT TENPENCE FARTHING PER HOUR.

10 $\frac{1}{4}$ d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	2 $\frac{3}{4}$	35	1	9	10 $\frac{3}{4}$	71	3	0	7 $\frac{3}{4}$	107	4	11	4 $\frac{3}{4}$
2	0	0	5	36	1	10	9	72	3	1	6	108	4	12	3
3	0	0	7 $\frac{1}{2}$	37	1	11	7 $\frac{1}{4}$	73	3	2	4 $\frac{1}{4}$	109	4	13	1 $\frac{1}{4}$
4	0	0	10 $\frac{1}{4}$	38	1	12	5 $\frac{3}{4}$	74	3	3	2 $\frac{3}{4}$	110	4	13	11 $\frac{1}{4}$
5	0	1	8 $\frac{1}{4}$	39	1	13	3 $\frac{3}{4}$	75	3	4	0 $\frac{3}{4}$	111	4	14	9 $\frac{3}{4}$
6	0	2	6 $\frac{3}{4}$	40	1	14	2	76	3	4	11	112	4	15	8
7	0	3	5	41	1	15	0 $\frac{1}{4}$	77	3	5	9 $\frac{1}{4}$	113	4	16	6 $\frac{1}{4}$
8	0	4	3 $\frac{1}{4}$	42	1	15	10 $\frac{3}{4}$	78	3	6	7 $\frac{3}{4}$	114	4	17	4 $\frac{3}{4}$
9	0	5	1 $\frac{3}{4}$	43	1	16	8 $\frac{3}{4}$	79	3	7	5 $\frac{3}{4}$	115	4	18	2 $\frac{3}{4}$
10	0	6	10	44	1	17	7	80	3	8	4	116	4	19	1
11	0	7	8 $\frac{1}{4}$	45	1	18	5 $\frac{1}{4}$	81	3	9	2 $\frac{1}{4}$	117	4	19	11 $\frac{1}{4}$
12	0	8	6 $\frac{3}{4}$	46	1	19	3 $\frac{1}{4}$	82	3	10	0 $\frac{1}{4}$	118	5	0	9 $\frac{1}{4}$
13	0	9	4 $\frac{3}{4}$	47	2	0	1 $\frac{3}{4}$	83	3	10	10 $\frac{3}{4}$	119	5	1	7 $\frac{3}{4}$
14	0	10	3	48	2	1	0	84	3	11	9	120	5	2	6
15	0	11	1 $\frac{1}{4}$	49	2	1	10 $\frac{1}{4}$	85	3	12	7 $\frac{1}{4}$	121	5	3	4 $\frac{1}{4}$
16	0	11	11 $\frac{1}{4}$	50	2	2	8 $\frac{1}{4}$	86	3	13	5 $\frac{1}{4}$	122	5	4	2 $\frac{1}{4}$
17	0	12	9 $\frac{3}{4}$	51	2	3	6 $\frac{3}{4}$	87	3	14	3 $\frac{3}{4}$	123	5	5	0 $\frac{3}{4}$
18	0	13	8	52	2	4	5	88	3	15	2	124	5	5	11
19	0	14	6 $\frac{1}{4}$	53	2	5	3 $\frac{1}{4}$	89	3	16	0 $\frac{1}{4}$	125	5	6	9 $\frac{1}{4}$
20	0	15	4 $\frac{3}{4}$	54	2	6	1 $\frac{3}{4}$	90	3	16	10 $\frac{3}{4}$	126	5	7	7 $\frac{3}{4}$
21	0	16	2 $\frac{3}{4}$	55	2	6	11 $\frac{1}{4}$	91	3	17	8 $\frac{3}{4}$	127	5	8	5 $\frac{3}{4}$
22	0	17	1	56	2	7	10	92	3	18	7	128	5	9	4
23	0	18	11 $\frac{1}{4}$	57	2	8	8 $\frac{1}{4}$	93	3	19	5 $\frac{1}{4}$	129	5	10	2 $\frac{1}{4}$
24	0	19	9 $\frac{3}{4}$	58	2	9	6 $\frac{3}{4}$	94	4	0	3 $\frac{3}{4}$	130	5	11	0 $\frac{3}{4}$
25	0	20	7 $\frac{3}{4}$	59	2	10	4 $\frac{3}{4}$	95	4	1	1 $\frac{3}{4}$	131	5	11	10 $\frac{3}{4}$
26	1	0	6	60	2	11	3	96	4	2	0	132	5	12	9
27	1	1	4 $\frac{1}{4}$	61	2	12	1 $\frac{1}{4}$	97	4	2	10 $\frac{1}{4}$	133	5	13	7 $\frac{1}{4}$
28	1	2	2 $\frac{3}{4}$	62	2	12	11 $\frac{3}{4}$	98	4	3	8 $\frac{3}{4}$	134	5	14	5 $\frac{3}{4}$
29	1	3	0 $\frac{3}{4}$	63	2	13	9 $\frac{3}{4}$	99	4	4	6 $\frac{3}{4}$	135	5	15	3 $\frac{3}{4}$
30	1	3	11	64	2	14	8	100	4	5	5	136	5	16	2
31	1	4	9 $\frac{1}{4}$	65	2	15	6 $\frac{1}{4}$	101	4	6	3 $\frac{1}{4}$	137	5	17	0 $\frac{1}{4}$
32	1	5	7 $\frac{3}{4}$	66	2	16	4 $\frac{3}{4}$	102	4	7	1 $\frac{3}{4}$	138	5	17	10 $\frac{3}{4}$
33	1	6	5 $\frac{3}{4}$	67	2	17	2 $\frac{3}{4}$	103	4	7	11 $\frac{3}{4}$	139	5	18	8 $\frac{3}{4}$
34	1	7	4	68	2	18	1	104	4	8	10	140	5	19	7
				69	2	18	11 $\frac{1}{4}$	105	4	9	8 $\frac{1}{4}$	141	6	0	5 $\frac{1}{4}$
				70	2	19	9 $\frac{3}{4}$	106	4	10	6 $\frac{3}{4}$	142	6	1	4 $\frac{3}{4}$

AT TENPENCE HALFPENNY PER HOUR.

10½d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	2½	35	1	10	7½	71	3	2	1½	107	4	13	7½
2	0	0	5¼	36	1	11	6	72	3	3	0	108	4	14	6
3	0	0	7¾	37	1	12	4½	73	3	3	10½	109	4	15	4½
4	0	0	10½	38	1	13	3	74	3	4	9	110	4	16	3
5	0	1	9	39	1	14	1½	75	3	5	7½	111	4	17	1½
6	0	2	7½	40	1	15	0	76	3	6	6	112	4	18	0
7	0	3	6	41	1	15	10½	77	3	7	4½	113	4	18	10½
8	0	4	4½	42	1	16	9	78	3	8	3	114	4	19	9
9	0	5	3	43	1	17	7½	79	3	9	1½	115	5	0	7½
10	0	6	1½	44	1	18	6	80	3	10	0	116	5	1	6
11	0	7	0	45	1	19	4½	81	3	10	10½	117	5	2	4½
12	0	7	10½	46	2	0	3	82	3	11	9	118	5	3	3
13	0	8	9	47	2	1	1½	83	3	12	7½	119	5	4	1½
14	0	9	7½	48	2	2	0	84	3	13	6	120	5	5	0
15	0	10	6	49	2	2	10½	85	3	14	4½	121	5	5	10½
16	0	11	4½	50	2	3	9	86	3	15	3	122	5	6	9
17	0	12	3	51	2	4	7½	87	3	16	1½	123	5	7	7½
18	0	13	1½	52	2	5	6	88	3	17	0	124	5	8	6
19	0	14	0	53	2	6	4½	89	3	17	10½	125	5	9	4½
20	0	14	10½	54	2	7	3	90	3	18	9	126	5	10	3
21	0	15	9	55	2	8	1½	91	3	19	7½	127	5	11	1½
22	0	16	7½	56	2	9	0	92	4	0	6	128	5	12	0
23	0	17	6	57	2	9	10½	93	4	1	4½	129	5	12	10½
24	0	18	4½	58	2	10	9	94	4	2	3	130	5	13	9
25	0	19	3	59	2	11	7½	95	4	3	1½	131	5	14	7½
26	1	0	1½	60	2	12	6	96	4	4	0	132	5	15	6
27	1	1	0	61	2	13	4½	97	4	4	10½	133	5	16	4½
28	1	1	10½	62	2	14	3	98	4	5	9	134	5	17	3
29	1	2	9	63	2	15	1½	99	4	6	7½	135	5	18	1½
30	1	3	7½	64	2	16	0	100	4	7	6	136	5	19	0
31	1	4	6	65	2	16	10½	101	4	8	4½	137	5	19	10½
32	1	5	4½	66	2	17	9	102	4	9	3	138	6	0	9
33	1	6	3	67	2	18	7½	103	4	10	1½	139	6	1	7½
34	1	7	1½	68	2	19	6	104	4	11	0	140	6	2	6
35	1	8	0	69	3	0	4½	105	4	11	10½	141	6	3	4½
36	1	8	10½	70	3	1	3	106	4	12	9	142	6	4	3
37	1	9	9												



AT ELEVENPENCE PER HOUR.

11d.

Hrs	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
$\frac{1}{4}$	0	0	$2\frac{3}{4}$	35	1	12	1	71	3	5	1	107	4	18	1
$\frac{1}{2}$	0	0	$5\frac{1}{2}$	36	1	13	0	72	3	6	0	108	4	19	0
$\frac{3}{4}$	0	0	$7\frac{3}{4}$	37	1	13	11	73	3	6	11	109	4	19	11
1	0	0	11	38	1	14	10	74	3	7	10	110	5	0	10
2	0	1	10	39	1	15	9	75	3	8	9	111	5	1	9
3	0	2	9	40	1	16	8	76	3	9	8	112	5	2	8
4	0	3	8	41	1	17	7	77	3	10	7	113	5	3	7
5	0	4	7	42	1	18	6	78	3	11	6	114	5	4	6
6	0	5	6	43	1	19	5	79	3	12	5	115	5	5	5
7	0	6	5	44	2	0	4	80	3	13	4	116	5	6	4
8	0	7	4	45	2	1	3	81	3	14	3	117	5	7	3
9	0	8	3	46	2	2	2	82	3	15	2	118	5	8	2
10	0	9	2	47	2	3	1	83	3	16	1	119	5	9	1
11	0	10	1	48	2	4	0	84	3	17	0	120	5	10	0
12	0	11	0	49	2	4	11	85	3	17	11	121	5	10	11
13	0	11	11	50	2	5	10	86	3	18	10	122	5	11	10
14	0	12	10	51	2	6	9	87	3	19	9	123	5	12	9
15	0	13	9	52	2	7	8	88	4	0	8	124	5	13	8
16	0	14	8	53	2	8	7	89	4	1	7	125	5	14	7
17	0	15	7	54	2	9	6	90	4	2	6	126	5	15	6
18	0	16	6	55	2	10	5	91	4	3	5	127	5	16	5
19	0	17	5	56	2	11	4	92	4	4	4	128	5	17	4
20	0	18	4	57	2	12	3	93	4	5	3	129	5	18	3
21	0	19	3	58	2	13	2	94	4	6	2	130	5	19	2
22	1	0	2	59	2	14	1	95	4	7	1	131	6	0	1
23	1	1	1	60	2	15	0	96	4	8	0	132	6	1	0
24	1	2	0	61	2	15	11	97	4	8	11	133	6	1	11
25	1	2	11	62	2	16	10	98	4	9	10	134	6	2	10
26	1	3	10	63	2	17	9	99	4	10	9	135	6	3	9
27	1	4	9	64	2	18	8	100	4	11	8	136	6	4	8
28	1	5	8	65	2	19	7	101	4	12	7	137	6	5	7
29	1	6	7	66	3	0	6	102	4	13	6	138	6	6	6
30	1	7	6	67	3	1	5	103	4	14	5	139	6	7	5
31	1	8	5	68	3	2	4	104	4	15	4	140	6	8	4
32	1	9	4	69	3	3	3	105	4	16	3	141	6	9	3
33	1	10	3	70	3	4	2	106	4	17	2	142	6	10	2
34	1	11	2												





WAGES TABLE.

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AT ELEVENPENCE HALFPENNY PER HOUR.

11½d.

Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.	Hrs.	£	s.	d.
1	0	0	2½	35	1	13	6½	71	3	8	0½	107	5	2	6½
2	0	0	5¼	36	1	14	6	72	3	9	0	108	5	3	6
3	0	0	8½	37	1	15	5½	73	3	9	11½	109	5	4	5½
4	0	0	11½	38	1	16	5	74	3	10	11	110	5	5	5
5	0	1	11	39	1	17	4½	75	3	11	10½	111	5	6	4½
6	0	2	10½	40	1	18	4	76	3	12	10	112	5	7	4
7	0	3	10	41	1	19	3½	77	3	13	9½	113	5	8	3½
8	0	4	9½	42	2	0	3	78	3	14	9	114	5	9	3
9	0	5	9	43	2	1	2½	79	3	15	8½	115	5	10	2½
10	0	6	8½	44	2	2	2	80	3	16	8	116	5	11	2
11	0	7	8	45	2	3	1½	81	3	17	7½	117	5	12	1½
12	0	8	7½	46	2	4	1	82	3	18	7	118	5	13	1
13	0	9	7	47	2	5	0½	83	3	19	6½	119	5	14	0½
14	0	10	6½	48	2	6	0	84	4	0	6	120	5	15	0
15	0	11	6	49	2	6	11½	85	4	1	5½	121	5	15	11½
16	0	12	5½	50	2	7	11	86	4	2	5	122	5	16	11
17	0	13	5	51	2	8	10½	87	4	3	4½	123	5	17	10½
18	0	14	4½	52	2	9	10	88	4	4	4	124	5	18	10
19	0	15	4	53	2	10	9½	89	4	5	3½	125	5	19	9½
20	0	16	3½	54	2	11	9	90	4	6	3	126	6	0	9
21	0	17	3	55	2	12	8½	91	4	7	2½	127	6	1	8½
22	0	18	2½	56	2	13	8	92	4	8	2	128	6	2	8
23	0	19	2	57	2	14	7½	93	4	9	1½	129	6	3	7½
24	1	0	1½	58	2	15	7	94	4	10	1	130	6	4	7
25	1	1	1	59	2	16	6½	95	4	11	0½	131	6	5	6½
26	1	2	0½	60	2	17	6	96	4	12	0	132	6	6	6
27	1	3	0	61	2	18	5½	97	4	12	11½	133	6	7	5½
28	1	4	11	62	2	19	5	98	4	13	11	134	6	8	5
29	1	5	10½	63	3	0	4½	99	4	14	10½	135	6	9	4½
30	1	6	10	64	3	1	4	100	4	15	10	136	6	10	4
31	1	7	9½	65	3	2	3½	101	4	16	9½	137	6	11	3½
32	1	8	9	66	3	3	3	102	4	17	9	138	6	12	3
33	1	9	8½	67	3	4	2½	103	4	18	8½	139	6	13	2½
34	1	10	8	68	3	5	2	104	4	19	8	140	6	14	2
35	1	11	7½	69	3	6	1½	105	5	0	7½	141	6	15	1½
36	1	12	7	70	3	7	1	106	5	1	7	142	6	16	1







TABLE No. 22.  
RIVET RECKONER.

TABLE No. 22.—RIVET RECKONER.

This Table is useful to piece-work Riveters who are paid by the 100 rivets. The second column is useful for calculating the amounts when the price per 100 rivets contains 3d. or 9d.

EXAMPLE.—What is to be paid for putting in 2,150 rivets at the rate of 6s. 9d. per 100?

	£ s. d.		£ s. d.
2000 at 6s. 6d. is	6 10 0	2000 at 3d. is	0 5 0
100 do.	3 6 6	100 do.	0 0 3
50 do.	0 3 3	50 do.	0 0 1½
	6 19 9	Carry	£0 5 4½
Add	0 5 4½		
	Total amount £7 5 1½		

No. of Rivets.	At 3d per 100.			At 4s. 6d. per 100.			At 5s. per 100.			At 5s 6d. per 100.			At 6s. per 100.			At 6s. 6d. per 100.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1	—	—	—	0	0	0 $\frac{1}{2}$	0	0	0 $\frac{1}{2}$	0	0	0 $\frac{1}{2}$	0	0	0 $\frac{3}{4}$	0	0	0 $\frac{3}{4}$
2	—	—	—	0	0	1	0	0	1 $\frac{1}{2}$	0	0	1 $\frac{1}{4}$	0	0	1 $\frac{1}{2}$	0	0	1 $\frac{1}{2}$
3	—	—	—	0	0	1 $\frac{1}{2}$	0	0	1 $\frac{3}{4}$	0	0	2	0	0	2	0	0	2 $\frac{1}{4}$
4	—	—	—	0	0	2 $\frac{3}{8}$	0	0	2 $\frac{1}{2}$	0	0	2 $\frac{1}{2}$	0	0	2 $\frac{3}{4}$	0	0	3
5	—	—	—	0	0	2 $\frac{3}{4}$	0	0	3	0	0	3 $\frac{1}{4}$	0	0	3 $\frac{1}{2}$	0	0	4
6	—	—	—	0	0	3 $\frac{1}{4}$	0	0	3 $\frac{1}{2}$	0	0	4	0	0	4 $\frac{1}{4}$	0	0	4 $\frac{1}{2}$
7	—	—	—	0	0	3 $\frac{3}{4}$	0	0	4	0	0	4 $\frac{1}{2}$	0	0	5	0	0	5 $\frac{1}{2}$
8	0	0	0 $\frac{1}{4}$	0	0	4 $\frac{1}{4}$	0	0	4	0	0	5 $\frac{1}{4}$	0	0	5 $\frac{3}{4}$	0	0	6 $\frac{1}{4}$
9	—	—	—	0	0	4 $\frac{3}{4}$	0	0	5 $\frac{1}{2}$	0	0	6	0	0	6 $\frac{1}{2}$	0	0	7
10	—	—	—	0	0	5 $\frac{1}{2}$	0	0	6	0	0	6 $\frac{1}{2}$	0	0	7 $\frac{1}{4}$	0	0	7 $\frac{3}{4}$
11	—	—	—	0	0	6	0	0	6 $\frac{1}{2}$	0	0	7 $\frac{1}{4}$	0	0	8	0	0	8 $\frac{1}{2}$
12	—	—	—	0	0	6 $\frac{1}{2}$	0	0	7	0	0	8	0	0	8 $\frac{1}{2}$	0	0	9
13	—	—	—	0	0	7	0	0	7 $\frac{1}{4}$	0	0	8 $\frac{1}{2}$	0	0	9 $\frac{1}{4}$	0	0	10
14	—	—	—	0	0	7 $\frac{1}{2}$	0	0	8	0	0	9 $\frac{1}{4}$	0	0	10	0	0	11
15	—	—	—	0	0	8	0	0	9	0	0	10	0	0	10 $\frac{3}{4}$	0	0	11 $\frac{3}{4}$
16	—	—	—	0	0	8 $\frac{1}{2}$	0	0	9 $\frac{1}{2}$	0	0	10 $\frac{1}{2}$	0	0	11 $\frac{1}{2}$	0	1	12
17	0	0	0 $\frac{1}{2}$	0	0	9	0	0	10	0	0	11 $\frac{1}{4}$	0	1	12 $\frac{1}{4}$	0	1	13 $\frac{1}{4}$
18	—	—	—	0	0	9 $\frac{3}{4}$	0	0	10 $\frac{3}{4}$	0	0	11 $\frac{3}{4}$	0	1	13	0	1	14
19	—	—	—	0	0	10	0	0	11 $\frac{1}{2}$	0	1	12	0	1	14	0	1	15
20	—	—	—	0	0	10 $\frac{1}{4}$	0	1	12	0	1	13	0	1	15	0	1	16
25	0	0	0 $\frac{3}{4}$	0	1	1 $\frac{1}{2}$	0	1	3	0	1	4	0	1	6	0	1	7
30	—	—	—	0	1	4	0	1	6	0	1	7	0	1	9	0	1	11
40	—	—	—	0	1	9 $\frac{1}{2}$	0	2	0	0	2	2	0	2	4	0	2	7
50	0	0	1 $\frac{1}{2}$	0	2	3	0	2	6	0	2	9	0	3	0	0	3	3
60	—	—	—	0	2	8 $\frac{1}{2}$	0	3	0	0	3	3 $\frac{1}{2}$	0	3	7 $\frac{1}{4}$	0	3	10
70	—	—	—	0	3	1 $\frac{1}{4}$	0	3	6	0	3	10 $\frac{1}{4}$	0	4	2 $\frac{1}{2}$	0	4	6
80	—	—	—	0	3	7 $\frac{1}{4}$	0	4	0	0	4	4 $\frac{3}{4}$	0	4	9 $\frac{1}{2}$	0	5	2
90	—	—	—	0	4	0 $\frac{1}{2}$	0	4	6	0	4	11 $\frac{1}{2}$	0	5	4 $\frac{3}{4}$	0	5	10
100	0	0	3	0	4	6	0	5	0	0	5	6	0	6	0	0	6	6
200	0	0	6	0	9	0	0	10	0	0	11	0	0	12	0	0	13	0
300	0	0	9	0	13	6	0	15	0	0	16	6	0	18	0	0	19	6
400	0	1	0	0	18	0	1	0	0	1	2	0	1	4	0	1	6	0
500	0	1	3	1	2	6	1	5	0	1	7	6	1	10	0	1	12	6
600	0	1	6	1	7	0	1	10	0	1	13	0	1	16	0	1	19	0
700	0	1	9	1	11	6	1	15	0	1	18	6	2	2	0	2	5	6
800	0	2	0	1	16	0	2	0	0	2	4	0	2	8	0	2	12	0
900	0	2	3	2	0	6	2	5	0	2	9	6	2	14	0	2	18	6
1000	0	2	6	2	5	0	2	10	0	2	15	0	3	0	0	3	5	0
2000	0	5	0	4	10	0	5	0	0	5	10	0	6	0	0	6	10	0
3000	0	7	6	6	15	0	7	10	0	8	5	0	9	0	0	9	15	0
4000	0	10	0	9	0	0	10	0	0	11	0	0	12	0	0	13	0	0

No. of Rivets.	At 7s. per 100.			At 7s. 6d. per 100.			At 8s. per 100.			At 8s. 6d. per 100.			At 9s. per 100.			At 9s. 6d. per 100.			At 10s. per 100.		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	1	0	0	1	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2
3	0	0	2	0	0	2	0	0	3	0	0	3	0	0	3	0	0	3	0	0	3
4	0	0	3	0	0	3	0	0	4	0	0	4	0	0	4	0	0	4	0	0	4
5	0	0	4	0	0	4	0	0	5	0	0	5	0	0	5	0	0	5	0	0	5
6	0	0	5	0	0	5	0	0	6	0	0	6	0	0	6	0	0	6	0	0	6
7	0	0	5	0	0	6	0	0	6	0	0	7	0	0	7	0	0	7	0	0	7
8	0	0	6	0	0	7	0	0	7	0	0	8	0	0	8	0	0	8	0	0	8
9	0	0	7	0	0	8	0	0	8	0	0	9	0	0	9	0	0	9	0	0	9
10	0	0	8	0	0	9	0	0	9	0	0	10	0	0	10	0	0	10	0	0	10
11	0	0	9	0	0	10	0	0	10	0	0	11	0	0	11	0	0	11	0	0	11
12	0	0	10	0	0	11	0	0	11	0	0	12	0	0	12	0	0	12	0	0	12
13	0	0	11	0	0	11	0	0	12	0	0	13	0	0	13	0	0	13	0	0	13
14	0	0	11	0	0	12	0	0	13	0	0	14	0	0	14	0	0	14	0	0	14
15	0	1	0	0	1	1	0	0	14	0	0	15	0	0	15	0	0	15	0	0	15
16	0	1	1	0	1	2	0	0	15	0	0	16	0	0	16	0	0	16	0	0	16
17	0	1	2	0	1	3	0	0	16	0	0	17	0	0	17	0	0	17	0	0	17
18	0	1	3	0	1	4	0	0	17	0	0	18	0	0	18	0	0	18	0	0	18
19	0	1	4	0	1	5	0	0	18	0	0	19	0	0	19	0	0	19	0	0	19
20	0	1	4	0	1	6	0	0	19	0	0	20	0	0	20	0	0	20	0	0	20
30	0	2	1	0	2	3	0	0	24	0	0	30	0	0	30	0	0	30	0	0	30
40	0	2	9	0	3	0	0	3	2	0	3	4	0	3	7	1	4	0	3	9	2
50	0	3	6	0	3	9	0	4	0	0	4	3	0	4	6	0	4	9	0	5	0
60	0	4	2	0	4	6	0	4	9	0	5	1	0	5	4	0	5	8	0	6	0
70	0	4	1	0	5	3	0	5	7	0	5	11	0	6	3	0	6	7	0	7	0
80	0	5	7	0	6	0	0	6	4	0	6	9	0	7	2	0	7	7	0	8	0
90	0	6	3	0	6	9	0	7	2	0	7	7	0	8	1	0	8	6	0	9	0
100	0	7	0	0	7	6	0	8	0	0	8	6	0	9	0	0	9	6	0	10	0
200	0	14	0	0	15	0	0	16	0	0	17	0	0	18	0	0	19	0	1	0	0
300	1	1	0	1	2	6	1	4	0	1	5	6	1	7	0	1	8	6	1	10	0
400	1	8	0	1	10	0	1	12	0	1	14	0	1	16	0	1	18	0	2	0	0
500	1	15	0	1	17	6	2	0	0	2	2	6	2	5	0	2	7	6	2	10	0
600	2	2	0	2	5	0	2	8	0	2	11	0	2	14	0	2	17	0	3	0	0
700	2	9	0	2	12	6	2	16	0	2	19	6	3	3	0	3	6	6	3	10	0
800	2	16	0	3	0	0	3	4	0	3	8	0	3	12	0	3	16	0	4	0	0
900	3	3	0	3	7	6	3	12	0	3	16	6	4	1	0	4	5	6	4	10	0
1000	3	10	0	3	15	0	4	0	0	4	5	0	4	10	0	4	15	0	5	0	0
2000	7	0	0	7	10	0	8	0	0	8	10	0	9	0	0	9	10	0	10	0	0
3000	10	10	0	11	5	0	12	0	0	12	15	0	13	10	0	14	5	0	15	0	0
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
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
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
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
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
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
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
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