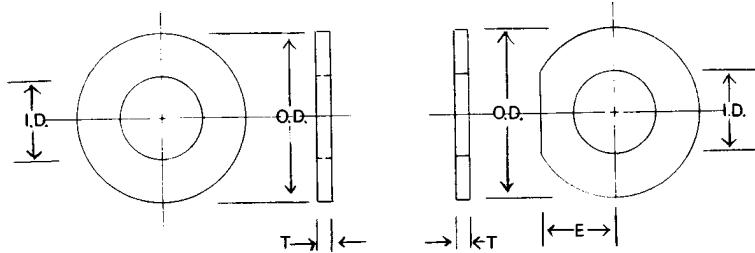




Washers

F436 Hardened Washers - Circular & Clipped Circular

NOTE 1-Tolerances are as noted in table on washer dimension tolerances.



Bolt Size	Circular		Clipped Circular		Clipped
	Nominal Outside Diameter (OD), in.	Nominal Inside Diameter (ID), in.	Thickness (<i>T</i>), in.		
			max	min	
1/4	5/8	9/32	0.051	0.080	7/32
5/16	11/16	11/32	0.051	0.080	9/32
3/8	13/16	13/32	0.051	0.080	11/32
7/16	59/64	15/32	0.051	0.080	13/32
1/2	11/16	17/32	0.097	0.177	7/16
5/8	15/16	11/16	0.122	0.177	9/16
3/4	115/32	13/16	0.122	0.177	21/32
7/8	1 1/4	15/16	0.136	0.177	25/32
1	2	1 1/8	0.136	0.177	7/8
1 1/8	2 1/4	1 1/4	0.136	0.177	1
1 1/4	2 1/2	1 3/8	0.136	0.177	13/32
1 3/8	2 3/4	1 1/2	0.136	0.177	17/32
1 1/2	3	1 5/8	0.136	0.177	15/16
1 3/4	3 3/8	1 7/8	0.178 ^B	0.28 ^B	1 17/32
2	3 3/4	2 1/8	0.178 ^B	0.28 ^B	1 3/4
2 1/4	4	2 3/8	0.24 ^C	0.34 ^C	2
2 1/2	4 1/2	2 5/8	0.24 ^C	0.34 ^C	2 3/16
2 3/4	5	2 7/8	0.24 ^C	0.34 ^C	2 13/32
3	5 1/2	3 1/8	0.24 ^C	0.34 ^C	2 5/8
3 1/4	6	3 3/8	0.24 ^C	0.34 ^C	2 7/8
3 1/2	6 1/2	3 5/8	0.24 ^C	0.34 ^C	3 1/16
3 3/4	7	3 7/8	0.24 ^C	0.34 ^C	3 5/16
4	7 1/2	4 1/8	0.24 ^C	0.34 ^C	3 1/2

^A Clipped edge *E* shall be not closer than 7/8 of the bolt diameter from the center of the washer.

^B 3/16 in. nominal.

^C 1/4 in. nominal.

The value-added source for quality bolts, screws, nuts, washers and other industrial fasteners.

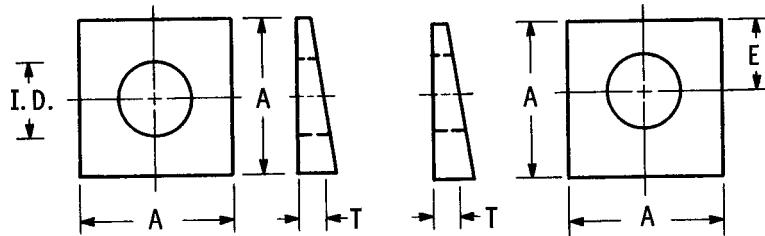
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Washers

F436 Hardened Washers - Square & Square Clipped



Bolt Size, in.	Square			Square Clipped	
	Minimum Side Dimension (A), in.	Nominal Inside Diameter (I.D.), in.	Mean Thickness (T), in.	Slope or Taper in Thickness	Nominal Edge Distance (E), ^B in.
1/2	1 3/4	17/32	5/16	1:6	7/16
5/8	1 3/4	11/16	5/16	1:6	9/16
3/4	1 3/4	13/16	5/16	1:6	21/32
7/8	1 3/4	15/16	5/16	1:6	25/32
1	1 3/4	1 1/8	5/16	1:6	7/8
1 1/8	2 1/4	1 1/4	5/16	1:6	1
1 1/4	2 1/4	1 3/8	5/16	1:6	1 3/32
1 5/8	2 1/4	1 1/2	5/16	1:6	17/32
1 1/2	2 1/4	15/8	5/16	1:6	15/16

^A Rectangular beveled washers shall conform to the dimensions shown above, except that one side may be longer than that shown for the A dimension.

^B Clipped edge E shall not be closer than 7/8 of the bolt diameter from the center of the washer.

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Washers

F436 Hardened Washers - Washer Dimension Tolerances

	To 1½ in. Nominal Bolt Size, incl	Over 1½ in. Nominal Bolt Size, incl	Over 3 to 4 in. Nominal Bolt Size, incl
Nominal diameter of hole, in.	-0, + 1/32	-0, + 1/16	-0, + 1/8
Nominal outside diameter, in.	± 1/32	± 1/16	± 1/8
Flatness: max deviation from straightedge placed on cut side shall not exceed (in.)	0.010	0.015	0.032
Concentricity, in.: center of hole to outside diameter	0.030 FIR ^A	0.090 FIR ^A	0.250 FIR ^A
Burr shall not project above immediately adjacent washer surface more than (in.)	0.010	0.015	0.025

^A Full indicator runout.

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