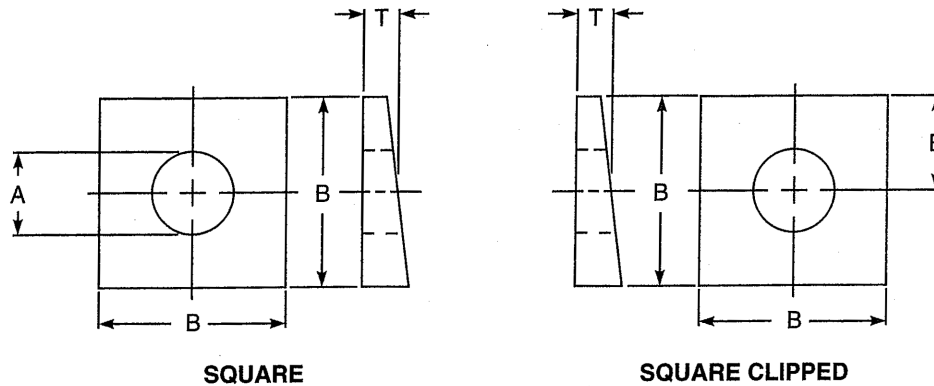


Hardened Steel Washers


Table 3 Dimensions of Beveled Washers

Nom Washer Size in.	B	A	T	Slope or Taper in Thickness	E
	Min Side Dimension, in.	Nom Inside Diameter, in.	Mean Thickness, in.		Nom Edge Distance, 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
1-3/8	2-1/4	1-1/2	5/16	1:6	1-7/32
1-1/2	2-1/4	1-5/8	5/16	1:6	1-5/16
See Notes 1	2, 3	2			4

NOTES:

- (1) Nominal washer sizes are intended for use with comparable nominal bolt, screw and stud diameters.
- (2) Tolerances are given in Table 4.
- (3) Non-clipped washers may be rectangular providing neither side dimension is less than B.
- (4) Clipped edge, E, shall not be closer than 0.875 times the nominal bolt diameter from the center of the washer.

Table 4 Washer Dimension Tolerances

	To 1½ in. Nom Washer Size, incl.	Over 1½ to 3 in. Nom Washer Size, incl.	Over 3 to 4 in. Nom Washer Size, incl.
Nom diameter of hole, in.	- 0, + 1/32	- 0, + 1/16	- 0, + 1/8
Nom outside diameter or side, 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	0.090 FIR	0.250 FIR
Burr shall not project above immediately adjacent washer surface more than (in.)	0.010	0.015	0.025

FIR is full indicator reading.