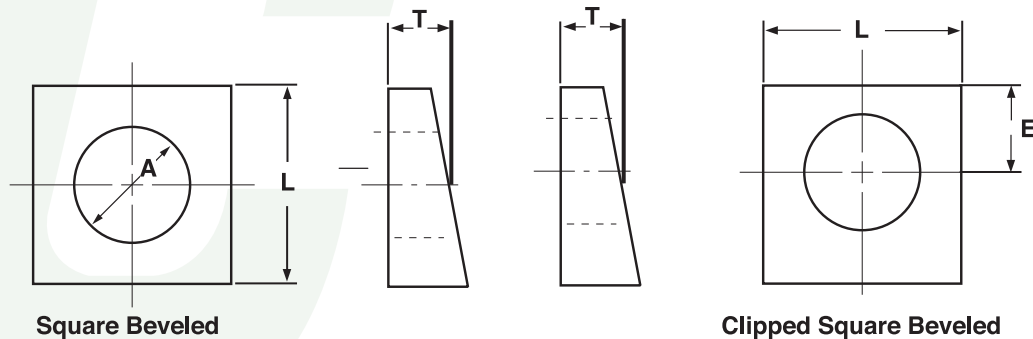


WASHERS

BEVELED

Steel



HARDENED BEVELED WASHERS

ASTM F436-2010

Nominal Washer Size		Inside Diameter - A			L	T	E
		Basic	Tolerance				
			Plus	Minus			
1/2	0.500	17/32	0.032	0	1.750	5/16	7/16
5/8	0.625	11/16	0.032	0	1.750	5/16	9/16
3/4	0.750	13/16	0.032	0	1.750	5/16	21/32
7/8	0.875	15/16	0.032	0	1.750	5/16	25/32
1	1.000	1 1/8	0.063	0	1.750	5/16	7/8
1-1/8	1.125	1 1/4	0.063	0	2.250	5/16	1
1-1/4	1.250	1 3/8	0.063	0	2.250	5/16	1 3/32
1-3/8	1.375	1 1/2	0.063	0	2.250	5/16	1 7/32
1-1/2	1.500	1 5/8	0.063	0	2.250	5/16	1 5/16

Description	A flat washer which can be square or circular, with one bearing surface having an oblique angle.
Applications/ Advantages	Commonly used when fastening bolts through the flanges of "I" beams.
Material	Washers shall be made from a carbon steel which conforms to the following chemical composition requirements (heat analysis): <i>Phosphorus</i> : 0.040% maximum; <i>Sulfur</i> : 0.050% maximum
Hardness	Plain or Zinc-plated - Rockwell C 38 - 45 Hot-Dip Galvanized - Rockwell C 26 - 45
Plating	See Appendix-A for plating information.