

# F436 Structural Flat Washer

Earnest Machine Products line of F436 Structural Washers are made to the dimensions and physical properties as specified by ASTM F439 for Round Structural Washers.

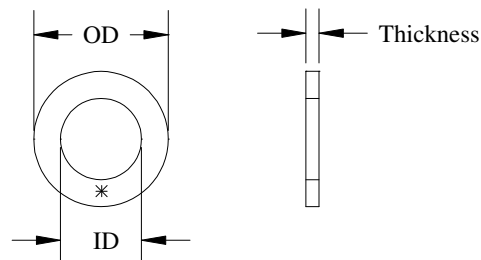
The material and heat treatment are per the requirements specified by ASTM F436 for Type 1 steel

Material – Medium Carbon Steel

Hardness – Up to 1 1/2” Through Hardened to Rc 38/45

Sizes above 1 1/2” may be case hardened.

Dimensions are per ASTM F436. Washers will have a vendor’s marking.



Size (Bolt Dia)	Inside Diameter			Outside Diameter			Thickness	
	Nom	Max	Min	Nom	Max	Min	Max	Min
<b>1/2</b>	17/32	.531	.500	1 1/16	1.094	1.031	.177	.097
<b>5/8</b>	11/16	.688	.657	1 5/16	1.344	1.281	.177	.122
<b>3/4</b>	13/16	.812	.781	1 15/32	1.500	1.438	.177	.122
<b>7/8</b>	15/16	.938	.907	1 3/4	1.781	1.719	.177	.136
<b>1</b>	1 1/8	1.125	1.094	2	2.031	1.969	.177	.136
<b>1 1/8</b>	1 1/4	1.250	1.219	2 1/4	2.281	2.219	.177	.136
<b>1 1/4</b>	1 3/8	1.375	1.344	2 1/2	2.531	2.469	.177	.136
<b>1 3/8</b>	1 1/2	1.500	1.468	2 3/4	2.781	2.719	.177	.136
<b>1 1/2</b>	1 5/8	1.625	1.594	3	3.031	2.969	.177	.136
<b>1 3/4</b>	1 7/8	1.875	1.812	3 3/8	3.438	3.312	.280	.178
<b>2</b>	2 1/8	2.125	2.062	3 3/4	3.812	3.688	.280	.178
<b>2 1/4</b>	2 3/8	2.375	2.312	4	4.062	3.938	.340	.240
<b>2 1/2</b>	2 5/8	2.625	2.562	4 1/2	4.562	4.438	.340	.240
<b>2 3/4</b>	2 7/8	2.875	2.812	5	5.062	4.938	.340	.240
<b>3</b>	3 1/8	3.125	3.062	5 1/2	5.562	5.438	.340	.240