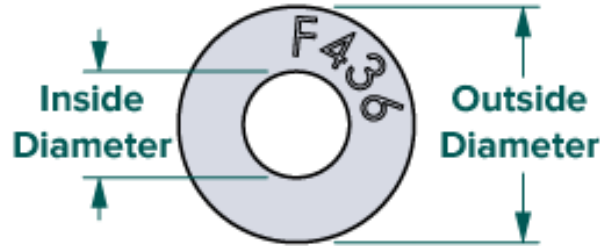




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Structural Washer Product Information



1.0 Dimensions: As per ASTM F436/F436M

Nominal Washer Size	Inside Diameter			Outside Diameter			Thickness	
	Nominal	Max	Min	Nominal	Max	Min	Max	Min
1/4	0.281	0.313	0.281	0.625	0.657	0.593	0.080	0.051
5/16	0.344	0.376	0.344	0.688	0.720	0.656	0.080	0.051
3/8	0.406	0.438	0.406	0.813	0.845	0.781	0.080	0.051
7/16	0.469	0.501	0.469	0.922	0.954	0.890	0.080	0.051
1/2	0.531	0.563	0.531	1.063	1.095	1.031	0.177	0.097
9/16	0.625	0.657	0.625	1.188	1.220	1.156	0.177	0.110
5/8	0.688	0.720	0.688	1.313	1.345	1.281	0.177	0.122
3/4	0.813	0.845	0.813	1.468	1.500	1.436	0.177	0.122
7/8	0.938	0.970	0.938	1.750	1.782	1.718	0.177	0.136
1	1.063	1.126	1.063	2.000	2.063	1.937	0.177	0.136
1-1/8	1.188	1.251	1.188	2.250	2.313	2.187	0.177	0.136
1-1/4	1.375	1.438	1.375	2.500	2.563	2.437	0.177	0.136
1-3/8	1.500	1.563	1.500	2.750	2.813	2.687	0.177	0.136
1-1/2	1.625	1.688	1.625	3.000	3.063	2.937	0.177	0.136
1-3/4	1.875	1.938	1.875	3.375	3.438	3.312	0.280	0.178
2	2.125	2.188	2.125	3.750	3.813	3.687	0.280	0.178
2-1/4	2.375	2.438	2.375	4.000	4.063	3.937	0.340	0.240
2-1/2	2.625	2.688	2.625	4.500	4.563	4.437	0.340	0.240
2-3/4	2.875	2.938	2.875	5.000	5.063	4.937	0.340	0.240
3	3.125	3.188	3.125	5.500	5.563	5.437	0.340	0.240

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2.0 Surface Finish: Plain/Zinc/HDG. Zinc and HDG details below:

Properties	Zinc Yellow	Hot Dip Galvanized
Type	Hexavalent (Cr+6)	RoHS Compliant
Color	Yellow	
Minimum Coating Thickness	0.0001 “ /3 Microns or 0.0002” / 5 Microns	Washers under 3/16 inch in thickness: 0.0017” (43 microns) and washers 3/16 inch & 1/4 inch thickness 0.0020” (50 microns).
Specification	ASTM F1941 / F1941M. Fe/Zn 3C or Fe/Zn 5C. ASTM B633 SC1 (0.0002” or 5 microns) Type II	ASTM F2329 /F2329M or ASTM A153/ A153M.

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