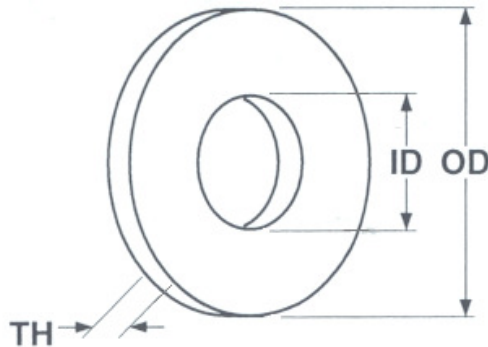


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### Flat Washers, Low Carbon, USS, Zinc Plated

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



USS Flat Washers									
Size	ID			OD			Thickness		
	Basic	Tolerance		Basic	Tolerance		Basic	Max.	Min.
		Plus	Minus		Plus	Minus			
3/16	.250	.015	.005	.562	.015	.005	.049	.065	.036
1/4	.312	.015	.005	.734	.015	.007	.065	.080	.051
5/16	.375	.015	.005	.875	.030	.007	.083	.104	.064
3/8	.438	.015	.005	1.000	.030	.007	.083	.104	.064
7/16	.500	.015	.005	1.250	.030	.007	.083	.104	.064
1/2	.562	.015	.005	1.375	.030	.007	.109	.132	.086
9/16	.625	.015	.005	1.469	.030	.007	.109	.132	.086
5/8	.688	.030	.007	1.750	.030	.007	.134	.160	.108
3/4	.812	.030	.007	2.000	.030	.007	.148	.177	.122
7/8	.938	.030	.007	2.250	.030	.007	.165	.192	.136
1	1.062	.030	.007	2.500	.030	.007	.165	.192	.136
1-1/8	1.250	.030	.007	2.750	.030	.007	.165	.192	.136
1-1/4	1.375	.030	.007	3.000	.030	.007	.165	.192	.136
1-3/8	1.500	.045	.010	3.250	.045	.010	.180	.213	.153
1-1/2	1.625	.045	.010	3.500	.045	.010	.180	.213	.153
1-5/8	1.750	.045	.010	3.750	.045	.010	.180	.213	.153
1-3/4	1.875	.045	.010	4.000	.045	.010	.180	.213	.153
1-7/8	2.000	.045	.010	4.250	.045	.010	.180	.213	.153
2	2.125	.045	.010	4.500	.045	.010	.180	.213	.153
2-1/4	2.375	.045	.010	4.750	.045	.010	.220	.248	.193
2-1/2	2.625	.045	.010	5.000	.045	.010	.238	.280	.210
2-3/4	2.875	.065	.010	5.250	.065	.010	.259	.310	.228
3	3.125	.065	.010	5.500	.065	.010	.284	.327	.249

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### Specification Requirements:

- Dimensions: ASME B18.21.1, Type A Plain Washers
- Material: Carbon Steel
- Finish: Fe/Zn 3AT per ASTM F1941
- Corrosion Performance: No White Corrosion for a minimum of 3 hrs.  
No Red Rust for a minimum of 12 hrs.  
[ASTM B117 Test Method]