

# PRODUCT INFORMATION SHEET

## HARDENED FLAT WASHERS, USS PATTERN (SIZE W)

**Typical Material:** Medium Carbon Steel

**Material and Mechanical Properties:** ASTM F436

**Dimensions:** ANSI B18.22.1, Table 1A, Size "W"

**Marking:** Manufacturers I.D. mark

**Zinc Plating:** Purchased to meet ASTM F1941 FeZn3C

**Hardness:** HRC 38-45



### USS FLAT WASHER DIMENSIONS

Size	I.D.	O.D.	Thickness	Size	I.D.	O.D.	Thickness
3/16	0.245-0.265	0.557-0.557	0.036-0.065	1 1/8	1.243-1.280	2.743-2.780	0.136-0.192
1/4	0.307-0.327	0.727-0.749	0.051-0.080	1 1/4	1.368-1.405	2.993-3.030	0.136-0.192
5/16	0.370-0.390	0.868-0.905	0.064-0.104	1 3/8	1.490-1.545	3.240-3.295	0.153-0.213
3/8	0.433-0.453	0.993-1.030	0.064-0.104	1 1/2	1.615-1.670	3.490-3.545	0.153-0.213
7/16	0.495-0.515	1.243-1.280	0.064-0.104	1 5/8	1.740-1.795	3.740-3.795	0.153-0.213
1/2	0.557-0.577	1.368-1.405	0.086-0.132	1 3/4	1.865-1.920	3.990-4.045	0.153-0.213
9/16	0.620-0.640	1.462-1.499	0.086-0.132	2	2.115-2.170	4.490-4.545	0.153-0.213
5/8	0.681-0.718	0.681-0.718	0.108-0.160	2 1/4	2.365-2.420	4.740-4.795	0.193-0.248
3/4	0.805-0.842	1.993-2.030	0.122-0.177	2 1/2	2.615-2.670	4.990-5.045	0.210-0.280
7/8	0.931-0.968	2.243-2.280	0.136-0.192	2 3/4	2.865-2.945	5.240-5.315	0.228-0.310
1	1.055-1.092	2.493-2.530	0.136-0.192	3	3.115-3.190	5.490-5.565	0.249-0.327



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