



FENDER WASHERS						
Bolt Size	Inside Diameter (± .010)	Outside Diameter (± .010)	Thickness		Approximate Number in 20 Pounds (Steel)	Approximate Number in 50 Pounds (Steel)
			Max	Min		
10	.219	.688	.080	.036		9530 *
10	.219	.750	.080	.036		8000
10	.219	.875	.080	.036		5000
10	.219	1.000	.084	.036		3500
10	.219	1.250	.084	.036		2145
10	.219	1.500	.080	.051		1760 *
10	.219	2.000	.080	.051		796
1/4	.281	1.000	.132	.036	1500	3750
1/4	.281	1.250	.132	.036	921	2300
1/4	.281	1.500	.132	.036	620	1550
1/4	.281	1.750	.080	.036		1100
1/4	.281	2.000	.080	.036		810
5/16	.344	1.000	.080	.036		4670 *
5/16	.344	1.250	.132	.036	960	2400
5/16	.344	1.500	.132	.036	640	1600
5/16	.344	2.000	.080	.036	328	820
5/16	.344	2.500	.080	.036	200	500
3/8	.406	1.250	.132	.036	1200	2350
3/8	.406	1.500	.132	.036		1650
3/8	.406 or .422	1.750	.132	.051	458	1130
3/8	.422	2.000	.080	.051	380	1000
3/8	.422	2.500	.080	.051	267	512
1/2	.531	1.250	.080	.051	1436	3000
1/2	.531	1.500	.080	.051	793	2000
1/2	.531	1.750	.080	.051	458	1145
1/2	.531	2.000	.132	.051	380	950
1/2	.531	2.500	.080	.051	267	668
1/2	.531	3.000	.080	.051	142	355
5/8	.688	1.250	.084	.074		3590 *
5/8	.688	2.000	.080	.051		1015
5/8	.688	3.000	.080	.051		365
3/4	.812	2.000 (± .015)	.080	.051		1155 *
7/8	.938	2.500 (± .015)	.118	.101		715 *

*Represents a count based on stainless steel washers.

Description	A flat washer with significantly more surface area than a USS or SAE washer. They are also made from a thinner gauge metal than most flat washers.	
Applications/ Advantages	Used where an extra wide bearing surface is required. Originally designed for auto body repair work, they are also used in sheet metal, plumbing, and electrical work. Also used to attach signs to posts, to install drywall and wood paneling.	
Material	Steel	Stainless
	Washers shall be punched from hot-rolled, hot-rolled and pickled or cold-rolled steel, or shall be machined from bar stock or tubing, or may be forged at the manufacturer's option.	18-8 or 316 Stainless steel