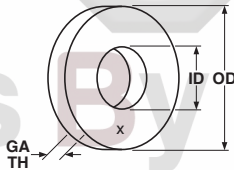


# WASHERS

## FENDER Steel & Stainless



Fasteners By Design Inc.

<b>FENDER WASHERS</b>						
Bolt Size	Inside Diameter (± .010)	Outside Diameter (± .010)	Thickness		Approx. number of STEEL washers per carton	
			Max	Min	25 Lbs. (Zinc, Black Oxide or Plain finish)	20 Lbs. (Galvanized)
10	.219	.688	.080	.036	4675 *	-
10	.219	.750	.080	.036	3500	-
10	.219	.875	.080	.036	2500	-
10	.219	1.000	.084	.036	1750	-
10	.219	1.250	.084	.036	1572	-
10	.219	1.500	.080	.036	880 *	-
10	.219	2.000	.080	.036	398	-
1/4	.281	1.000	.132	.036	1875	1500
1/4	.281	1.250	.132	.036	1150	921
1/4	.281	1.500	.132	.036	775	620
1/4	.281	1.750	.080	.036	550	-
1/4	.281	2.000	.080	.036	405	324
5/16	.344	1.000	.080	.036	2335 *	-
5/16	.344	1.250	.132	.036	1200	960
5/16	.344	1.500	.132	.036	800	640
5/16	.344	2.000	.080	.036	410	328
5/16	.344	2.500	.080	.036	250	200
3/8	.406	1.000	.132	.036	2050	-
3/8	.406	1.250	.132	.036	1175	760
3/8	.406	1.500	.132	.036	825	-
3/8	.406 or .422	1.750	.132	.051	565	458
3/8	.422	2.000	.080	.051	487	380
3/8	.422	2.500	.080	.051	256	267
1/2	.531	1.250	.080	.051	1337	1070
1/2	.531	1.500	.080	.051	1000	720
1/2	.531	1.750	.080	.051	537	425
1/2	.531	2.000	.132	.051	425	338
1/2	.531	2.500	.080	.051	334	250
1/2	.531	3.000	.080	.051	177	150
5/8	.688	1.250	.084	.074	1795 *	-
5/8	.688	2.000	.080	.051	507	-
5/8	.688	3.000	.080	.051	182	-
3/4	.812	2.000 (± .015)	.080	.051	577 *	-
7/8	.938	2.500 (± .015)	.118	.101	357 *	-

\*Represents a count based on stainless steel washers.

<b>Description</b>	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.	
<b>Applications/ Advantages</b>	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.	
<b>Material</b>	<i>Steel</i>	<i>Stainless</i>
	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
<b>Plating</b>	Fender washers are usually provided zinc plated or with no finish.	Parts are usually supplied with no additional finish.