

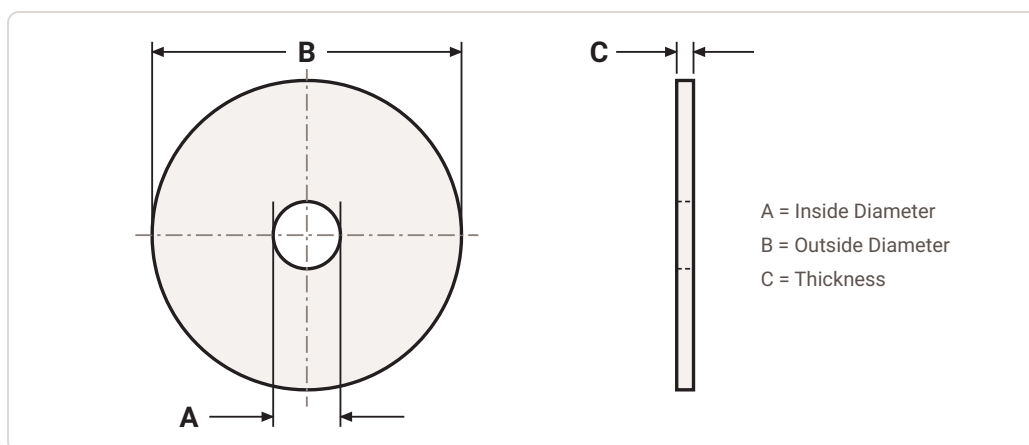


PRODUCT DATA SHEET

Heavy Fender Washers – 1/8" Thick

1.0 Dimensions Industry standard (inches)

Extra-thick fender washers – nominal 1/8" (0.125") thick, about twice the thickness of a standard fender washer – with a much larger O.D. than USS or SAE washers. Also known as heavy body washers. **Materials:** zinc plated low carbon steel or 18-8 stainless steel.



Size Bolt × O.D.	Inside Diameter (A)		Outside Diameter (B)		Thickness (C)		Approx. Wt. per 100 (lb)	Nutty Stock #	
	Min	Max	Min	Max	Min	Max		Plated Steel	18-8 Stainless
1/4 × 1	.271	.291	0.990	1.010	.108	.132	2.56	HFEN141	–
1/4 × 1-1/4	.271	.291	1.240	1.260	.108	.132	4.13	–	XHFEN14114
1/4 × 1-1/2	.271	.291	1.490	1.510	.108	.132	6.04	HFEN14112	–
5/16 × 1-1/2	.333	.353	1.490	1.510	.108	.132	5.94	HFEN516112	XHFEN516112
3/8 × 1-1/2	.396	.416	1.490	1.510	.108	.132	5.81	HFEN38112	XHFEN38112
3/8 × 2	.396	.416	1.990	2.010	.108	.132	10.68	HFEN382	–
1/2 × 2	.521	.541	1.990	2.010	.108	.132	10.35	HFEN122	XHFEN122

Heavy fender washers are not covered by ASME B18.21.1 (Table 13 fender washers are 0.065" nominal). Dimensions shown are common industry values: I.D. and O.D. ±0.010", thickness 0.108"–0.132". Weights are calculated for steel at the nominal 0.125" thickness (stainless is about 2% heavier). – = not stocked; call for availability.

2.0 Material Plain (flat) unhardened washers

Material	Description
Plated Steel	Low carbon steel, unhardened (ASTM F844). No hardness requirement. Zinc plated per ASTM F1941 Fe/Zn 3A.
Stainless Steel	18-8 stainless steel, passivated. Non-magnetic to slightly magnetic; superior corrosion resistance.



3.0 Application & Workmanship

- Twice the thickness of a standard fender washer: resists dishing and cupping under higher clamp loads, while still covering oversized holes and slots and spreading the load over soft materials.
- Common in trailer, truck body, agricultural, roofing, dock, deck and timber construction, and anywhere a standard fender washer bends.
- Heavy fender washers are unhardened and are not intended for structural or high-preload joints – use ASTM F436 hardened washers there.
- Washers are free from burrs, loose scale and sharp edges, and meet the flatness and parallelism requirements of ASTM F844.

4.0 Surface Finish Plated Steel

Properties	Zinc
Type	Trivalent (Cr+3), RoHS
Color	Clear / blue-bright
Minimum Coating Thickness	0.0001" / 3 microns
Specification	ASTM F1941/F1941M Fe/Zn 3A

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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