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Westfield Fasteners Product Specification:

BS 3410 - Flat Washer Table 4 Heavy Gauge

This product guide contains the specification for British Standard 3410 flat washers, specifically those to a heavy gauge table 4 specification. These washers are available in imperial sizes only, and are a stock item from Westfield Fasteners.

Product Description

Thick or heavy gauge flat washers, designed for use with imperial sized bolts and screws. These washers are therefore suitable for use with our UNC and UNF threads, and also with BSW and BSF thread standards, amongst others. The standard refers to these table 4 washers as large bright washers. These washers are thicker and more robust than a light pattern flat washer, and feature a wider external diameter than the table 3 series. This allows the table 4 flat washers to be stronger in comparison, and increases the load distribution across the surface area.

Scope of the BS Standard

BS 3410 is a general British Standard for metal washers for engineering purposes, and covers sizes from 1/4 inch up to 2 inches in diameter. The standard allows for chamfered edges, but these are not seen in off-the-shelf parts. See figure 1 and table 1 below for dimensions and tolerances.

BS 3410 specifies washers made in steel and brass specifically, but makes provision for manufacture in any other material.

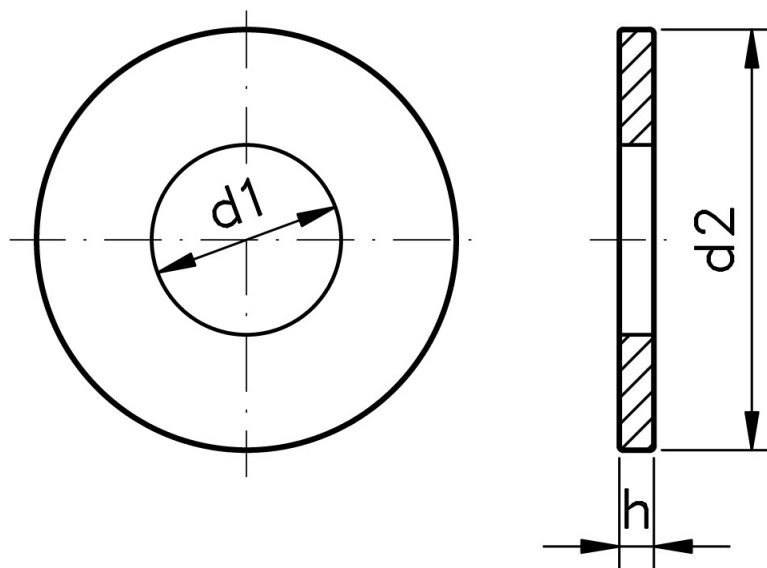


Figure 1: Flat Washer to BS 3410 Table 4 Heavy Spec

Table 1: Dimensions & Tolerances

Nominal size of bolt or screw	Diameter of hole, d1		Outside diameter, d2		Thickness, h	
	max.	min.	max.	min.	Heavy gauge	
inches	inches	inches	inches	inches	SWG	inches
1/4	0.270	0.265	0.625	0.620	17	0.056
5/16	0.333	0.328	0.750	0.745	15	0.072
3/8	0.395	0.390	0.875	0.870	15	0.072
7/16	0.458	0.453	1.000	0.995	13	0.092
1/2	0.520	0.515	1.125	1.115	13	0.092
9/16	0.593	0.588	1.250	1.240	12	0.104
5/8	0.656	0.651	1.375	1.365	11	0.116
3/4	0.781	0.776	1.625	1.615	10	0.128
7/8	0.906	0.901	1.875	1.865	9	0.144
1	1.031	1.026	2.125	2.115	8	0.160
1 1/8	1.156	1.151	2.375	2.355	7	0.176
1 1/4	1.281	1.276	2.625	2.605	7	0.176
1 3/8	1.406	1.401	2.875	2.855	6	0.192
1 1/2	1.531	1.526	3.125	3.095	6	0.192
1 3/4	1.781	1.776	3.625	3.595	5	0.212
2	2.031	2.026	4.125	4.095	5	0.212

For further details, please refer to the BS standard document for this item. E&OE