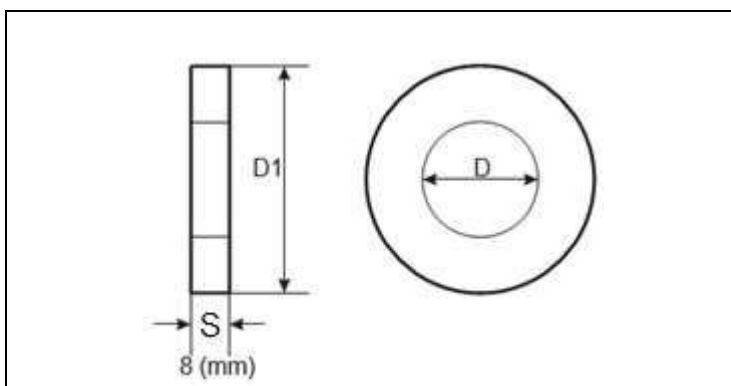




## Product Dimensions and Weights

## DIN 7989 Specifications

### Metric DIN 7989 Thick Flat Washers



#### Dimensions of Metric DIN 7989 Thick Flat Washers

for Thread	M10	M12	M16	M20	M24	M27	M30	M33	M36
<b>D min.</b>	11	13.5	17.5	22	26	30	33		
<b>D max.</b>	11.43	13.93	17.93	22.52	26.52	30.52	33.62	36	39
<b>D1 min.</b>	20	24	30	37	44	50	56		
<b>D1 max.</b>	19.16	23.16	29.16	36	43	49	54.8	60	66
<b>S ±1</b>	8	8	8	8	8	8	8	8	8
<b>Weight kg/1000pcs</b>	13.8	19.4	29.3	42.7	62.1	78.9	101	114	140

All measurements are in mm

Metric DIN 7989 thick flat washers for construction are circular flat washers with a central hole that are thicker and have a larger outer diameter (OD) than the most commonly used metric flat washer (DIN 125). Consequently, the DIN 7989 thick flat washers have a larger surface area and are used where larger bearing surfaces are required. Unique Fasteners offers over 500,000 unique fastener products from stock in inch and metric standard in a variety of materials and finishes. The following sizes of DIN 7989 thick flat washers are available for immediate shipping from stock: Diameters ranging from M3 to M30 in regular zinc plated steel and stainless steel A2 and stainless steel A4.

DIN (Deutsches Institut für Normung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as Metric DIN 7989 thick flat washers. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization.