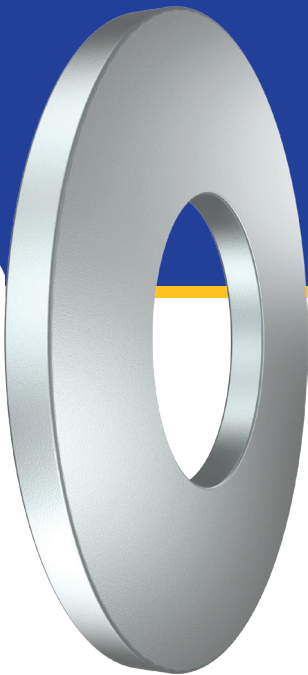


FLAT ROUND WASHER
GRADE 8 METRIC



APPLICATION

Bremick® Grade 8 washers are designed for heavy-duty applications that require high tensile strength and reliable performance. For use with high-tensile bolts and nuts, such as Class 8.8 and Class 10.9 metric bolts.

PRODUCT ATTRIBUTES

Material Class: Carbon Steel Grade 8 - Type 1

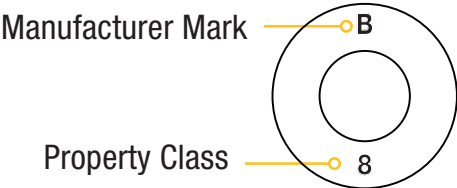
Finish: Zinc Plated

Standard: Complies to ASTM F436/F436M:2024

Mechanical Properties: Complies to ASTM F436/F436M:2024

Chemical Composition: Complies to ASTM F436/F436M:2024

MARKING



In some cases, the Bremick marking will be replaced by the mark of the original manufacturer

MECHANICAL PROPERTIES

PROPERTIES	HARDNESS	
	ROCKWELL (HRC)	
	RANGE	
GRADE 8	38-45	

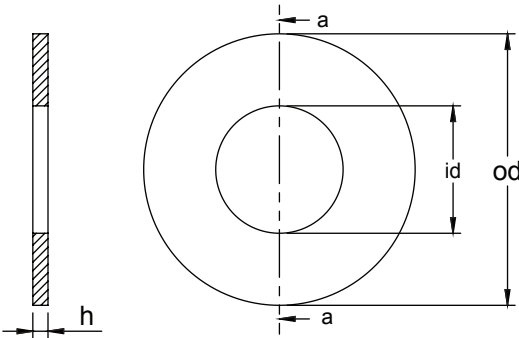
CHEMICAL COMPOSITION (%)

MATERIAL	P	S
	MAX	MAX
HEAT ANALYSIS	0.040	0.050
PRODUCT ANALYSIS	0.050	0.060

FINISH INFORMATION

ZINC PLATED		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Zinc Plating is a process of depositing a thin layer of zinc onto the surface of a steel object through electroplating. The steel object is then passivated with a transparent conversion layer.	Bremick® Zinc Plated Coating provides a low level of corrosion protection and is recommended for dry internal application. Bremick® Zinc Plating complies with AS1789.	Low.

DIMENSIONAL DATA (mm)



DIAMETER	INSIDE DIAMETER (id)		OUTSIDE DIAMETER (od)		THICKNESS (h)	
NOMINAL	MIN	MAX	MIN	MAX	MIN	MAX
M12	14.0	14.4	25.7	27.0	3.1	4.6
M14	16.0	16.4	28.7	30.0	3.1	4.6
M16	18.0	18.4	32.4	34.0	3.1	4.6
M20	22.0	22.5	40.4	42.0	3.1	4.6
M22	24.0	24.5	42.4	44.0	3.4	4.6
M24	26.0	26.5	48.4	50.0	3.4	4.6
M27	30.0	30.5	54.1	56.0	3.4	4.6
M30	33.0	33.6	58.1	60.0	3.4	4.6
M36	39.0	29.6	70.1	72.0	3.4	4.6
M42	45.0	45.6	81.8	84.0	4.6	7.2
M48	52.0	52.7	92.8	95.0	4.6	7.2
M56	62.0	62.7	104.8	107.0	6.1	8.7
M64	70.0	70.7	115.8	118.0	6.1	8.7