

FLAT ROUND WASHER
GRADE 8 METRIC



BLACK

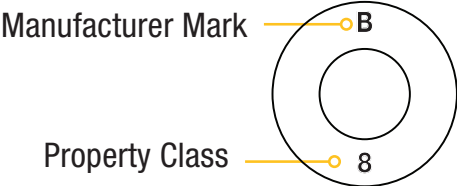
APPLICATION

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:	Plain/Black/Natural
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 (%)

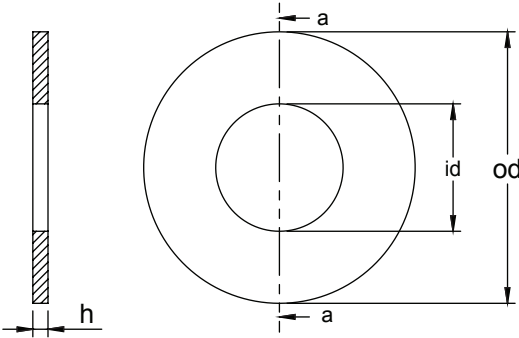
MATERIAL	P	S
	MAX	MAX
HEAT ANALYSIS	0.040	0.050
PRODUCT ANALYSIS	0.050	0.060

FINISH INFORMATION

PLAIN / BLACK / NATURAL

DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Plain, Black & Natural are all terms referring to the fastener not having a coating applied. The product has a light oil added.	Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation.	—

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

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