

SET SCREW
CLASS 4.6 METRIC



HOT DIPPED
GALVANISED

APPLICATION

Bremick® Hex Head Metric Class 4.6 set screws are designed for industrial and construction applications where moderate tensile performance is required

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Class 4.6
Thread Form:	Metric 8g
Finish:	Hot Dipped Galvanised
Standard:	Complies to DIN 933:1987
Mechanical Properties:	Complies to ISO 898.1:2013
Chemical Composition:	Complies to ISO 898.1:2013

HEAD MARKING



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

MECHANICAL PROPERTIES

PROPERTIES	TENSILE STRENGTH (MPa)	STRESS UNDER PROOF LOAD (MPa)	HARDNESS					
	MIN	NOM.	VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRB)	
CLASS 4.6	400	225	120	220	114	209	67	95

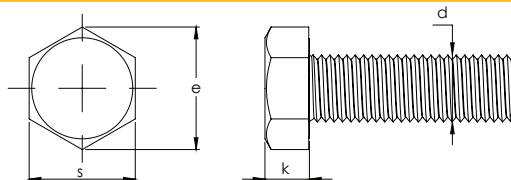
CHEMICAL COMPOSITION (%)

MATERIAL	C		P	S	B	TEMPERING TEMPERATURE °C
	MIN	MAX	MAX	MAX	MAX	MIN
CARBON STEEL	-	0.55	0.050	0.060	Not Specified	-

FINISH INFORMATION

HOT DIPPED GALVANISED		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Hot Dipped Galvanised is a process of dipping a steel object into a molten bath of zinc (455° - 480°C). The molten zinc adheres to the anchor surface covering all the corners and edges.	Bremick® Hot Dipped Galvanised Coating provides a moderate/high level of corrosion protection and is recommended for damp external application. Bremick® Hot Dipped Galvanising complies with AS/NZS 1214.	Moderate/High.

DIMENSIONAL DATA (mm)



DIAMETER	PITCH (mm)	ACROSS FLATS (s)		ACROSS CORNERS (e)		HEAD HEIGHT (k)		MAJOR DIAMETER (d)	
		MIN	MAX	MIN		MIN	MAX	MIN	MAX
M3	0.50	5.32	5.50	6.01		1.88	2.12	2.86	3.00
M4	0.70	6.78	7.00	7.66		2.68	2.92	3.82	4.00
M5	0.80	7.78	8.00	8.79		3.35	3.65	4.82	5.00
M6	1.00	9.78	10.00	11.05		3.85	4.15	5.82	6.00
M8	1.25	12.73	13.00	14.38		5.15	5.45	7.78	8.00
M10	1.50	16.73	17.00	18.90		6.22	6.48	9.78	10.00
M12	1.75	18.67	19.00	21.10		7.32	7.50	11.73	12.00
M14	2.00	21.67	22.00	24.49		8.80	10.00	13.73	14.00
M16	2.00	23.67	24.00	26.75		9.82	10.18	15.73	16.00
M20	2.50	29.67	30.00	33.53		12.28	12.72	19.67	20.00
M24	3.00	35.38	36.00	39.98		14.78	15.22	23.67	24.00
M27	3.00	40.00	41.00	45.20		13.65	17.35	26.48	27.00
M30	3.50	45.00	46.00	50.85		18.28	19.12	29.48	30.00
M33	3.50	49.00	50.00	55.37		20.58	21.42	32.38	33.00
M36	4.00	53.80	55.00	60.79		22.08	22.92	35.38	36.00
M39	4.00	58.80	60.00	66.44		24.58	25.42	38.38	39.00

SOCKET OR SPANNER SIZE (mm)

BOLT DIAMETER	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M33	M36	M39
SPANNER SIZE	5.5	7	8	10	13	17	19	22	24	30	36	41	46	50	55	60

THREAD LENGTH

Thread length is equivalent to bolt length as set screws are fully threaded