

CUP HEAD BOLT CLASS 4.6 METRIC



APPLICATION

Bremick® Cup head bolts have a square neck design which prevents the bolt from spinning when tightened. Primarily used in timber applications where a smooth domed head is preferred.

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Class 4.6
Thread Form:	8g
Finish:	Hot Dipped Galvanised
Standard:	Complies to AS/NZS 1390:1997
Mechanical Properties:	Complies to AS291.1:2015
Chemical Composition:	Complies to AS291.1:2015

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

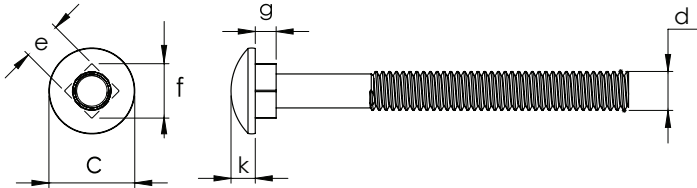
CHEMICAL COMPOSITION (%)

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 (mm)	PITCH	SQUARE NECK ACROSS FLATS (e)		SQUARE NECK ACROSS CORNERS (f)		SQUARE NECK LENGTH (g)		HEAD HEIGHT (k)		MAJOR DIAMETER (d)	HEAD DIAMETER (c)	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MIN	MAX
M6	1.00	5.52	6.48	7.64	9.16	3.00	3.60	3.00	3.60	6.48	12.40	13.50
M8	1.25	7.42	8.58	10.20	12.13	4.00	4.80	4.00	4.80	8.58	16.90	18.00
M10	1.50	9.42	10.58	12.80	14.96	5.00	5.80	5.00	5.80	10.58	21.20	22.50
M12	1.75	11.30	12.70	15.37	17.96	6.00	6.80	6.00	6.80	12.70	25.70	27.00
M16	2.00	15.30	16.70	20.57	23.62	8.00	8.90	8.00	8.90	16.70	34.40	36.00
M20	2.50	19.16	20.84	25.73	29.47	10.00	10.90	10.00	10.90	20.84	43.40	45.00

THREAD LENGTH (mm)

BOLT LENGTH	THREAD LENGTH					
NOMINAL	M6	M8	M10	M12	M16	M20
25	FULLY THREADED					
30						
40						
45						
50						
60	50	50	50	50	50	50
65	50	50	50	50	50	50
70	50	50	50	50	50	50
75	50	50	50	50	50	50
80	50	50	50	50	50	50
85	50	50	50	50	50	50
90	50	50	50	50	50	50
100	80	80	80	80	80	80
110	80	80	80	80	80	80
120	80	80	80	80	80	80
130	100	100	100	100	100	100
140	100	100	100	100	100	100
150	100	100	100	100	100	100
160	100	100	100	100	100	100
170	100	100	100	100	100	100
180	100	100	100	100	100	100
190	100	100	100	100	100	100
200	100	100	100	100	100	100
220	150	150	150	150	150	150
240	-	150	150	150	150	150
260	-	150	150	150	150	150
280	-	150	150	150	150	150
300	-	150	150	150	150	150
325	-	-	150	150	150	150
330	-	-	-	150	150	150
350	-	-	-	150	150	150
375	-	-	-	150	150	150
380	-	-	-	150	150	150
400	-	-	-	150	150	150
425	-	-	-	-	150	150
450	-	-	-	-	150	150

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