

SOCKET COUNTERSUNK
FLAT HEAD CAP SCREWS
BSW



PLAIN

APPLICATION

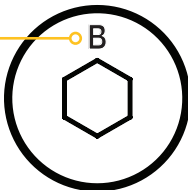
Bremick® Flat Head (Counter Sunk) Socket Screws are high strength fasteners manufactured to precision tolerances for use in applications where close tolerances and high tensile strength is required. The heads of these fasteners are flat topped, counter sunk with an internal hex drive recess

PRODUCT ATTRIBUTES

Material Class:	SCM435 Alloy
Thread Form:	Medium Class
Finish:	Plain/Black/Natural
Standard:	Complies to BS 2470:1973
Mechanical Properties:	Complies to Bremick Specification
Chemical Composition:	Complies to JIS G4053:2008

HEAD MARKING

Manufacturer Mark



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

MECHANICAL PROPERTIES (FULL-SIZE TESTS)

Tensile Strength (lbf)	HARDNESS	
	ROCKWELL (HRC)	
	MIN	MIN
21200		36

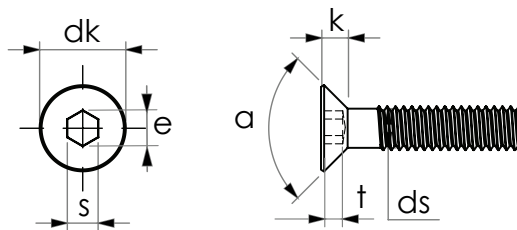
CHEMICAL COMPOSITION (%)

MATERIAL	C		Si		Mn		P	S	Ni	Cr		Mo	
	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX	MAX	MIN	MAX	MIN	MAX
SCM435 ALLOY	0.33	0.38	0.015	0.035	0.60	0.90	0.030	0.030	0.25	0.90	1.20	0.15	0.30

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 (inches)



DIAMETER	TPI	BODY DIAMETER (ds)		HEAD DIAMETER (dk)		HEAD HEIGHT (k)	HEXAGON SOCKET SIZE (s)	KEY ENGAGEMENT (t)	COUNTERSUNK ANGLE (a)	
		MIN	MAX	MIN	MAX	MIN	NOMINAL	MIN	MIN	MAX
1/4	20	0.2435	0.2500	0.476	0.531	0.167	0.156	0.111	80°	82°
5/16	18	0.3053	0.3125	0.589	0.656	0.205	0.188	0.135	80°	82°
3/8	16	0.3678	0.3750	0.704	0.781	0.241	0.219	0.159	80°	82°
7/16	14	0.4294	0.4375	0.755	0.844	0.242	0.250	0.159	80°	82°
1/2	12	0.4919	0.5000	0.857	0.937	0.260	0.312	0.172	80°	82°
5/8	11	0.6163	0.6250	1.065	1.188	0.335	0.375	0.220	80°	82°
3/4	10	0.7406	0.7500	1.293	1.438	0.410	0.500	0.220	80°	82°

Head Height: Tabulated values for head height are given for reference only and are calculated to the maximum formulation

SOCKET OR SPANNER SIZE (inches)

SCREW DIAMETER	6#	10#	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2
SOCKET SIZE	5/64	1/8	5/32	3/16	7/32	1/4	5/16	3/8	1/2	9/16	5/8	3/4	7/8	7/8	1

THREAD LENGTH (inches)

SCREW DIAMETER	1/4	5/16	3/8	7/16	1/2	5/8	3/4
THREAD LENGTH (min)	1.000	1.125	1.250	1.375	1.500	1.750	2.000