

SOCKET COUNTERSUNK FLAT HEAD
 CAP SCREWS UNC
 STAINLESS STEEL



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:

304 STAINLESS STEEL 1-CW

Thread Form:

Class 3A UNRC $\leq 1''$
 Class 2A UNRC $1'' < x \leq 1\text{-}1/2''$

Standard:

Complies to ASME B18.3:2012

Mechanical Properties:

Complies to ASTM F879:2023

Chemical Composition:

Complies to ASTM F879:2023

MECHANICAL PROPERTIES (FULL-SIZE PRODUCT)

TENSILE STRENGTH (ksi)	EXTENSION	HARDNESS	
		VICKERS (HV)	ROCKWELL (HRA)
MIN	MIN	MIN	MIN
80	0.4D	150	50

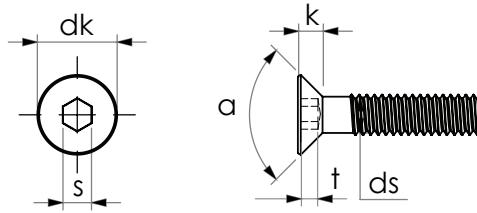
CHEMICAL COMPOSITION (%)

STAINLESS STEEL GRADE	C	Mn	P	S	Si	Cu	Ni	Cr
	MAX	MAX	MAX	MAX	MAX	MAX	RANGE	RANGE
304	0.08	2.00	0.045	0.030	1.00	1.00	8.0-10.5	18.0-20.0

MATERIAL INFORMATION

STAINLESS STEEL 304		
DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
304 is the most commonly used stainless steel. It is an austenitic, offers excellent strength and corrosion resistance.	Bremick® 304 Stainless Steel provides an extreme level of protection and is recommended for wet external application. Bremick® 304 Stainless Steel is an austenitic stainless steel that offers all round performance.	Extreme

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	REFERENCE	NOMINAL	MIN	MIN	MAX
6#	32	0.1329	0.1380	0.263	0.307	0.097	0.078	0.066	80°	84°
10#	24	0.1840	0.1900	0.359	0.411	0.127	0.125	0.087	80°	84°
1/4	20	0.2435	0.2500	0.480	0.531	0.161	0.156	0.111	80°	84°
5/16	18	0.3053	0.3125	0.600	0.656	0.198	0.188	0.135	80°	84°
3/8	16	0.3678	0.3750	0.720	0.781	0.234	0.219	0.159	80°	84°
7/16	14	0.4294	0.4375	0.781	0.844	0.234	0.250	0.159	80°	84°
1/2	13	0.4919	0.5000	0.872	0.938	0.251	0.312	0.172	80°	84°
5/8	11	0.6163	0.6250	1.112	1.188	0.324	0.375	0.220	80°	84°
3/4	10	0.7406	0.7500	1.355	1.438	0.396	0.500	0.220	80°	84°
7/8	9	0.8647	0.8750	1.604	1.688	0.468	0.562	0.248	80°	84°
1	8	0.9886	1.0000	1.841	1.938	0.540	0.625	0.297	80°	84°
1-1/8	7	1.1086	1.1250	2.079	2.188	0.611	0.750	0.325	80°	84°
1-1/4	7	1.2336	1.2500	2.316	2.438	0.683	0.875	0.358	80°	84°
1-3/8	6	1.3568	1.3750	2.553	2.688	0.755	0.875	0.402	80°	84°
1-1/2	6	1.4818	1.5000	2.791	2.938	0.827	1.000	0.435	80°	84°

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)

NOMINAL LENGTH	6#	10#	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
0.88											
1											
1.25	0.75										
1.5		0.88									
1.75	0.75	1.13	1								
2	1	0.88	1.25	1.12							
2.25	0.75	1.13	1	1.37	1.25						
2.5	1	0.88	1.25	1.12	1.5	1.38	1.5				
2.75	0.75	1.13	1	1.37	1.25	1.63	1.75				
3	-	0.88	1.25	1.12	1.5	1.38	2				
3.25	-	1.13	1	1.37	1.25	1.63	1.5	1.75			
3.5	-	0.88	1.25	1.12	1.5	1.38	1.75	2			
3.75	-	1.13	1	1.37	1.25	1.63	2	2.25	2		
4	-	0.88	1.25	1.12	1.5	1.38	1.5	1.75	2.5	2.5	
4.25	-		1	1.37	1.25	1.63	1.75	2	2.75	2.75	2.75
4.5	-	-	1.25	1.12	1.5	1.38	2	2.25	2	3	3
4.75	-	-	1	1.37	1.25	1.63	1.5	1.75	2.25	2.25	3.25
5	-	-	1.25	1.12	1.5	1.38	1.75	2	2.5	2.5	2.5
5.25	-	-	1	1.37	1.25	1.63	2	2.25	2.75	2.75	2.75
5.5	-	-	-	1.12	1.5	1.38	1.5	1.75	2	3	3
5.75	-	-	-	1.37	1.25	1.63	1.75	2	2.25	2.25	3.25
6	-	-	-	1.12	1.5	1.38	2	2.25	2.5	2.5	2.5
6.25	-	-	-	1.37	1.25	1.63	1.5	1.75	2.75	2.75	2.75
6.5	-	-	-	1.12	1.5	1.38	1.75	2	2	3	3
6.75	-	-	-	-	1.25	1.63	2	2.25	2.25	2.25	3.25
7	-	-	-	-	1.5	1.38	1.5	1.75	2.5	2.5	2.5
7.25	-	-	-	-	1.25	1.63	1.75	2	2.75	2.75	2.75
7.5	-	-	-	-	1.5	1.38	2	2.25	2	3	3
7.75	-	-	-	-	1.25	1.63	1.5	1.75	2.25	2.25	3.25
8	-	-	-	-	-	1.38	1.75	2	2.5	2.5	2.5
8.5	-	-	-	-	-	1.38	1.5	1.75	2	3	3
9	-	-	-	-	-	1.38	2	2.25	2.5	2.25	2.5
9.5	-	-	-	-	-	1.38	1.5	1.75	2	2.75	3
10	-	-	-	-	-	-	2	2.25	2.5	2.25	2.5
11	-	-	-	-	-	-	-	1.75	2	2.25	2.5
12	-	-	-	-	-	-	-	1.75	2	2.25	2.5
13	-	-	-	-	-	-	-	-	2	2.25	2.5
14	-	-	-	-	-	-	-	-	2	2.25	2.5
15	-	-	-	-	-	-	-	-	2	2.25	2.5
16	-	-	-	-	-	-	-	-	-	2.25	2.5
17	-	-	-	-	-	-	-	-	-	2.25	2.5
18	-	-	-	-	-	-	-	-	-	2.25	2.5
19	-	-	-	-	-	-	-	-	-	-	2.5
20	-	-	-	-	-	-	-	-	-	-	2.5

**ALL SIZES ABOVE THE STEPPED LINE
ARE FULLY THREADED**

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Bremick Pty Ltd
Head Office | 88 Dalmeny Avenue, Rosebery 2018
National Distribution Centre | M5/M7 Logistics Park,
Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170
www.bremick.com.au