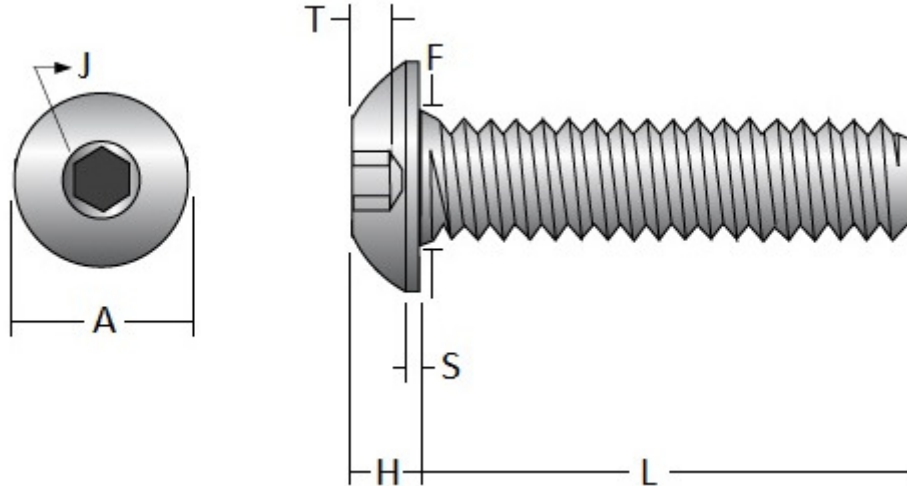


Button Head Socket Cap Screw, Alloy, Zinc

The information below lists the required dimensional, chemical and physical characteristics of the products in this purchase order. If the order received does not meet these requirements, it may result in a supplier corrective action request, which could jeopardize your status as an approved vendor. Unless otherwise specified, all referenced consensus standards must be adhered to in their entirety.



Size	A		H		S	J		T	F		
	Head Diameter		Head Height		Head Side Height	Hexagon Socket Size		Key Engagement	Fillet Extension		
	Max.	Min.	Max.	Min.	Ref.	Max.	Min.	Min.	Max.	Min.	
#0	0.0600	0.114	0.104	0.032	0.026	0.010	0.0355	0.0350	0.020	0.080	0.070
#1	0.0730	0.139	0.129	0.039	0.033	0.010	0.0510	0.0500	0.028	0.093	0.083
#2	0.0860	0.164	0.154	0.046	0.038	0.010	0.0510	0.0500	0.028	0.106	0.096
#3	0.0990	0.188	0.176	0.052	0.044	0.010	0.0635	0.0625	0.035	0.119	0.109
#4	0.1120	0.213	0.201	0.059	0.051	0.015	0.0635	0.0625	0.035	0.132	0.122
#5	0.1250	0.238	0.226	0.066	0.058	0.015	0.0791	0.0781	0.044	0.145	0.135
#6	0.1380	0.262	0.250	0.073	0.063	0.015	0.0791	0.0781	0.044	0.158	0.148
#8	0.1640	0.312	0.298	0.087	0.077	0.015	0.0952	0.0937	0.052	0.194	0.184
#10	0.1900	0.361	0.347	0.101	0.091	0.020	0.1270	0.1250	0.070	0.220	0.210
1/4	0.2500	0.437	0.419	0.132	0.122	0.031	0.1587	0.1562	0.087	0.290	0.280
5/16	0.3125	0.547	0.527	0.166	0.152	0.031	0.1900	0.1875	0.105	0.353	0.343
3/8	0.3750	0.656	0.636	0.199	0.185	0.031	0.2217	0.2187	0.122	0.415	0.405
1/2	0.5000	0.875	0.851	0.265	0.245	0.046	0.3160	0.3125	0.175	0.560	0.540
5/8	0.6250	1.000	0.970	0.331	0.311	0.062	0.3790	0.3750	0.210	0.685	0.665
3/4	0.7500	1.125	1.105	0.375	0.355	0.062	0.4420	0.4375	0.245	0.740	0.720

RECORD OF REVISION CHANGES TO THIS DOCUMENT ARE LOCATED ON THE LAST PAGE

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Specification Requirements:

- **Dimensions:** ASME B18.3
*Exception: Fully Threaded
3/4": See Table Above
- **Material & Mechanical Properties:** ASTM F835
- **Thread Requirements:** ASME B1.1, Class 3A, prior to plating, UNRC & UNRF
- **Product Marking:** Manufacturer's ID on sizes larger than #10
- **Finish:** Fe/Zn 3AN per ASTM F1941/F1941M
- **Hydrogen Embrittlement:** Baking to relieve internal hydrogen embrittlement is mandatory and shall be performed after electroplating prior to the application of conversion finish where baking temperatures can damage the conversion film. Baking may be allowed after conversion finish provided temperature does not alter performance. Part temperature shall reach 375°F to 425°F (190°C to 220°C) for a minimum of 14 hours, as soon as practical after plating.
- **Material Test Reports:** The MTR must have documented lot traceability, dimensional results, full chemical test results, full mechanical test results and hydrogen embrittlement test results to the specification(s) above. In addition, the MTR shall be in full compliance with Fastenal's MTR Requirements.
- **Quality Assurance Provisions:** Category 3 of ASME B18.18

Revision Level Changes to this Document

Document Name	Revision Level	Revision Date	Rationale for Revision
BHSCS.ALLOY.Z	01	1/11/2018	Revised marking requirement.

The rationale above may not include all of the changes within each revision. A complete review of the Fastenal Product Standard is required.