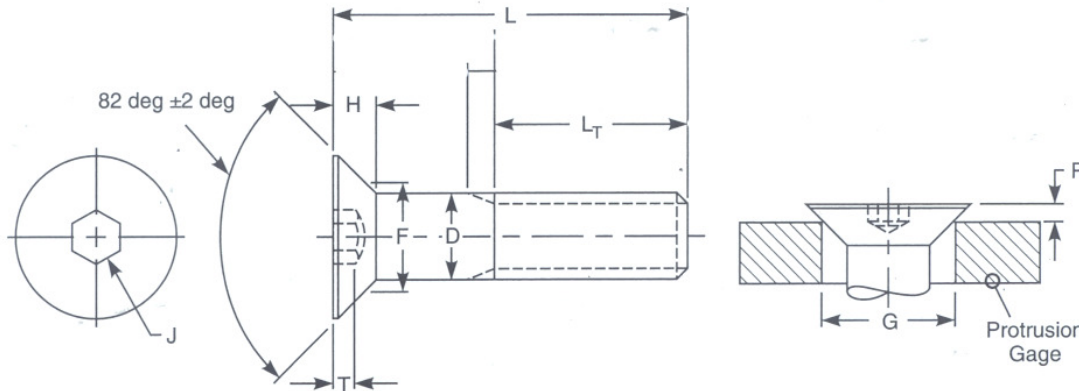




### Flat Head Socket Cap Screws, Alloy, Black Oxide, Manufactured in the USA

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.



Nominal Size or Basic Screw Diameter	D		A		H	G		P		M	J		T	F	
	Body Diameter		Head Diameter			Head Height	Protrusion Gage Diameter		Protrusion		Spline Socket Size	Hexagon Socket Size			Key Engagement
	Max.	Min.	Theo. Sharp Max.	Abs. Min.	Ref.		Max.	Min.	Max.	Min.		Nom.	Min.	Max.	
#4	0.1120	0.1120	0.1075	0.255	0.218	0.083	0.172	0.171	.057	.036	0.072	1/16	0.062	0.055	0.136
#5	0.1250	0.1250	0.1202	0.281	0.240	0.090	0.196	0.195	.059	.037	0.096	5/64	0.078	0.061	0.153
#6	0.1380	0.1380	0.1329	0.307	0.263	0.097	0.220	0.219	.060	.037	0.096	5/64	0.078	0.066	0.168
#8	0.1640	0.1640	0.1585	0.359	0.311	0.112	0.267	0.266	.063	.039	0.111	3/32	0.094	0.076	0.194
#10	0.1900	0.1900	0.1840	0.411	0.359	0.127	0.313	0.312	.066	.041	0.145	1/8	0.125	0.087	0.220
1/4	0.2500	0.2500	0.2435	0.531	0.480	0.161	0.424	0.423	.072	.043	0.183	5/32	0.156	0.111	0.280
5/16	0.3125	0.3125	0.3053	0.656	0.600	0.198	0.539	0.538	.078	.047	0.216	3/16	0.188	0.135	0.343
3/8	0.3750	0.3750	0.3678	0.781	0.720	0.234	0.653	0.652	.088	.050	0.251	7/32	0.219	0.159	0.405
7/16	0.4375	0.4375	0.4294	0.844	0.781	0.234	0.690	0.689	.104	.063	0.291	1/4	0.250	0.159	0.468
1/2	0.5000	0.5000	0.4919	0.938	0.872	0.251	0.739	0.738	.131	.087	0.372	5/16	0.312	0.172	0.530
5/8	0.6250	0.6250	0.6163	1.188	1.112	0.324	0.962	0.961	.146	.096	0.454	3/8	0.375	0.220	0.655
3/4	0.7500	0.7500	0.7406	1.438	1.355	0.396	1.186	1.185	.170	.105	0.454	1/2	0.500	0.220	0.780

#### Specification Requirements:

- Dimensions: ASME B18.3
- Material & Mechanical Properties: ASTM F835
- Hardness: ≤ 1/2" diameter is HRC 39 to 44, > 1/2" diameter is HRC 37 to 44.
- Thread Requirements: ASME B1.1, Class 3A UNRC and UNRF (0.060" to 1" inclusive)
- Product Marking: Manufacturer's ID
- Finish: Black Oxide (Thermal or Chemical)

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- **Material Test Reports:** The MTR must have documented lot traceability, dimensional results, full chemical test results and full mechanical 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