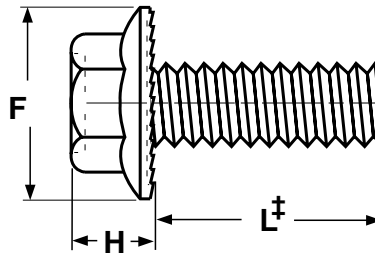
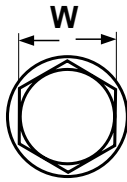


# Cap Screws & Bolts

# Serrated Hex Washer Flange Screws



±Length of a serrated flange screw is measured from the bottom of the serrations to the extreme end of the screw.

SERRATED HEX WASHER HEAD FLANGE SCREWS						MacLean-Fogg* & Hill Fastener
Size (Diameter & Thread Pitch)	W		H		F	
	Width Across Flats		Thickness		Flange Diameter	
	Max	Min	Max	Min	Max	Min
6-32	.187	.181	.157	.132	.266	.254
8-32	.250	.244	.186	.161	.355	.341
10-24	.312	.305	.210	.185	.441	.425
10-32	.312	.305	.210	.185	.441	.425
1/4-20	.375	.367	.240	.216	.531	.513
5/16-18	.500	.491	.298	.274	.706	.686
3/8-16	.562	.552	.331	.307	.793	.771
7/16-14	.625	.612	.385	.365	.884	.856
1/2-13	.750	.736	.510	.470	1.070	1.020
5/8-11	.9375	.922	.620	.580	1.330	1.280

Tolerance on Length (ANSI/ASME B18.2.1)	Nominal Screw Size	Nominal Screw Length			
		Up to 1/2 in., incl.	Over 1/2 in. to 1 in., incl.	Over 1 in. to 2 in., incl.	Over 2 in. to 4 in., incl.
	No. 6 thru 10	-0.02	-0.03	....	....
	1/4 thru 3/8	-0.03	-0.03	-0.06	....
	7/16 thru 1/2	-0.03	-0.03	-0.06	-0.09
9/16 thru 3/4	....	-0.03	-0.08	-0.10	

<b>Description</b>	An unslotted hex-washer machine screw, but with a thicker flange and serrations on the bearing surface side.
<b>Applications/ Advantages</b>	Designed for use in applications where loosening forces are present, such as vibration. The serrations grip to the bearing surface so that significantly more torque is needed to loosen than to tighten the screw. Flange provides more strength than a standard machine screw. Eliminates need for a lockwasher or locknut.
<b>Material</b>	AISI C1022 steel.
<b>Heat Treatment</b>	Serrated flange screws shall be heat treated, quenched and tempered at a minimum temperature of 650°F.
<b>Surface Hardness</b>	No. 6 through 5/8 in. diameter, all lengths: Rockwell 30N57.5 maximum
<b>Core Hardness</b>	No. 6 through 5/8 in. diameter, all lengths: Rockwell C25 - C38
<b>Proof Load</b>	No. 6 through 5/8 in. diameter, all lengths: 85,000 psi.
<b>Tensile Strength</b>	No. 6 through 5/8 in. diameter, all lengths: 120,000 psi. minimum
<b>Plating</b>	See Appendix-A for plating information.

\*MacLean-Fogg is the original writer of these serrated flange screw specifications (#6 through 7/16" diameter).