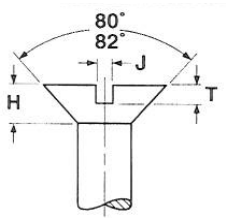
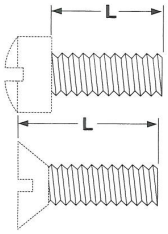
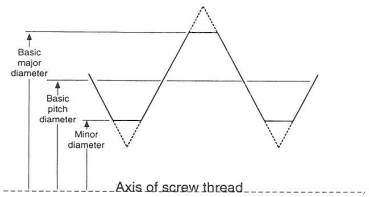
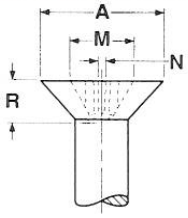
Atlanta, Georgia
Phone 800-521-7326 Fax 770-745-1333

Flat Head Machine Screw 80°









Peco Catalog#	Size and Threads Per Inch		Series Designation	Allowance	Major Diameter		Pitch Diameter			Tensile Strength, lb. Min**	Stress Area Inches²	A Head Diameter		H Head Height		J Slot Width		T Slot Depth		M Dimension of Recess Diamet	R Dimension of Recess Depth	N Dimension of Recess Width	F Protrusion Above Gaging Diameter		G Gaging Diameter	Phillips Bit Size
					Min	Max	Min	Max	Tolerance			Min	Max	Min	Max	Min	Max	Min	Max				Min	Max		
See Section Three of Our Catalog	4-40	0.112	UNC	.0008	.1061	.1112	.0925	.0950	.0025	360	0.00604	.191	.212	.055	.067	.031	.039	.020	.030	.105	.072	.019	.019	.032	.172	1
	5-40	0.125	UNC	.0008	.1191	.1242	.1054	.1080	.0026	470	0.00796	.215	.237	.062	.075	.035	.043	.022	.034	.141	.074	.027	.020	.034	.196	2
	6-32	0.138	UNC	.0008	.1312	.1372	.1141	.1169	.0028	550	0.00909	.238	.262	.069	.083	.039	.048	.024	.038	.149	.084	.027	.021	.036	.220	2
	8-32	0.164	UNC	.0009	.1571	.1631	.1399	.1428	.0029	850	0.0140	.285	.312	.084	.100	.045	.054	.029	.045	.165	.101	.030	.023	.039	.267	2
	10-24	0.190	UNC	.0010	.1818	.1890	.1586	.1619	.0033	1050	0.0175	.333	.362	.098	.116	.050	.060	.034	.053	.182	.119	.031	.025	.042	.313	2
	10-32	0.190	UNF	.0009	.1831	.1891	.1658	.1688	.0030	1200	0.0200	.333	.362	.098	.116	.050	.060	.034	.053	.182	.119	.031	.025	.042	.313	2
	12-24	0.216	UNC	.0010	.2078	.2150	.1845	.1879	.0034	1450	0.0242	.380	.412	.112	.132	.056	.067	.039	.060	.236	.125	.032	.027	.045	.362	3
	1/4-20	0.250	UNC	.0011	.2408	.2489	.2127	.2164	.0037	1900	0.0318	.442	.477	.131	.153	.064	.075	.046	.070	.255	.147	.034	.029	.050	.424	3
	1/4-28	0.250	UNF	.0010	.2425	.2490	.2225	.2258	.0033	2200	0.0364	.442	.477	.131	.153	.064	.075	.046	.070	.255	.147	.034	.029	.050	.424	3
	5/16-18	0.312	UNC	.0012	.3026	.3113	.2712	.2752	.0040	3150	0.0524	.556	.597	.165	.191	.072	.084	.058	.088	.295	.187	.040	.034	.057	.539	4
	3/8-16	0.375	UNC	.0013	.3643	.3737	.3287	.3331	.0044	4650	0.0775	.670	.717	.200	.230	.081	.094	.070	.106	.374	.228	.064	.039	.065	.653	4
	1/2-13	0.500	UNC	.0015	.4876	.4985	.4435	.4485	.0050	8500	0.1419	.765	.815	.186	.223	.091	.106	.065	.103	.403	.256	.068	.049	.081	.739	4

Tolerance on Length L	Screw Size	Screw Length			
		Up To 1/2"	Over 1/2" to 1"	Over 1" to 2"	Over 2"
	4 - 12	-0.02	-0.03	-0.06	-0.09
	1/4 - 3/4	-0.03	-0.03	-0.06	-0.09

**Tensile strength is based off of 60,000 psi. and only apply to carbon steel screws. Hex and Hex Washer Head machine screws of adequate length may be wedge tensile tested. Other head styles can be axial tensile tested.

ANSI B18.6.3

Material	AISI 1006 - 1022 or equivalent Steel or Stainless SAE 18-8 Stainless Steel Passivated
Hardness	Steel: Rockwell B70 - B100 - Stainless: Rockwell B85 - B95
Tensile Strength	Size 4 and 5 diameter and lengths shorter than 1/2" are not subjet to tensile testing. Steel: 60,000 psi. minimum - Stainless: 80,000 psi minimum

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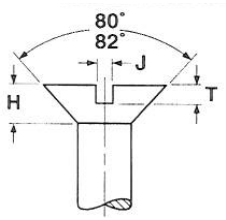

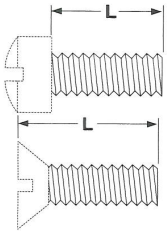

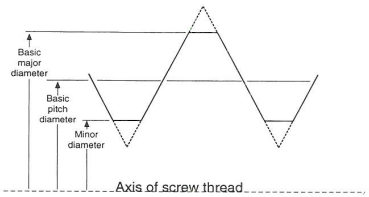

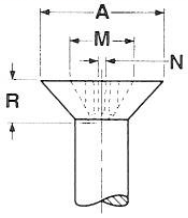

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