

SERRATED HEX WASHER SELF-TAPPING SCREWS

Nominal Size &	Α		Н		F		U		J		Т		D		Drive Test Results				
Number of Threads per Inch	Width Across Flats		Head Height		Washer Diameter		Washer Thickness		Slot Width		Slot Depth		Major Diameter				Drive	Strip Torque	Strip to Drive
mon	Max	Min	Max	Min	Max	Min	Мах	Min	Max	Min	Мах	Min	Max	Min	Hole Dia.	Thickness	loique	rorque	Ratio
6-20	.250	.244	.093	.080	.328	.302	.025	.015	.048	.039	.046	.033	.139	.132	.081	.025	5	20	4.0:1
8-18	.250	.244	.110	.096	.348	.322	.031	.019	.054	.045	.066	.052	.166	.159	.090	.025	6.6	31	4.7:1
10-16	.312	.305	.120	.105	.414	.384	.031	.019	.060	.050	.072	.057	.189	.182	.110	.025	10	56	5.6;1
12-14	.312	.305	.155	.139	.432	.398	.039	.022	.067	.056	.093	.077	.215	.208	.187	.125	47	139	3.0:1
1/4-14	.375	.367	.190	.172	.520	.480	.050	.030	.075	.064	.101	.083	.246	.237	.2615	.125	37	148	4.0:1
Tolerance on Length						Up to 1" Incl.: ±0.03								Over 1": ±0.05					

Description	A slotted hex washer head thread forming tapping screw with serrations on the underside of the washer face, spaced threads and a gimlet point.						
Auvantaues	The serrations on the underside of the washer face allow this part to perform two main functions: (1) act as a locking fastener, and (2) break drive torque during installation which lessens the chance of reaming out the mating hole in the bearing surface. The torque-breaking feature slows the rotation of the screw when it meets the mating surface. The serrations allow for more pitch body diameter under the head giving the mating sheet metal more travel so as not to snap over the last bit of major diameter thread crest. Appliance manufacturers use these screws to reduce the thickness of the sheet metal they require, which reduces the cost of production.						
Material	AISI 1016 - 1024 or equivalent steel.						
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.						
Surface Hardness	Rockwell C45 minimum						
Case Depth	No. 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" diameter: .005011						
Core Hardness (after tempering)	Rockwell C28 - 38						
Plating	Plating See Appendix-A for plating information.						