



SERRATED HEX WASHER SELF-DRILLING SCREWS, <u>SPACED</u> THREAD																					
Nominal Screw Size & Threads per Inch	A		H		F		U		J		T		t		Drill Point Size	P	Drilling Thickness		Recommended Screw Gun Speed		
	Width Across Head		Head Height		Washer Diameter		Washer Thickness		Width of Slot		Major Diameter		Minor Diameter				Protrusion Allowance	Max		Min	Max RPM
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min							
8-18	.250	.244	.110	.096	.348	.322	.036	.024	.054	.045	.166	.161	.122	.116	2	.211	.100	.035	2500		
10-16	.312	.305	.120	.105	.414	.384	.036	.024	.060	.050	.189	.183	.141	.135	2	.235	.110	.035	2500		
1/4-14	.438	.428	.190	.172	.590	.560	.063	.037	.075	.064	.246	.240	.192	.185	3	.393	.220	.110	2000		
5/16-12	.438	.428	.230	.208	.610	.580	.063	.037	.075	.064	.315	.307	.272	.263	4	.510	.312	.110	2000		

SERRATED HEX WASHER SELF-DRILLING SCREWS, <u>MACHINE</u> SCREW THREAD																			
8-32	.250	.244	.110	.096	.348	.322	.031	.019	.054	.045	.1640	.1586	-	-	2	.162	.100	-	
10-24	.312	.305	.120	.105	.414	.384	.031	.019	.060	.050	.1900	.1834	-	-	2	.193	.110	-	
10-24	.312	.305	.120	.105	.414	.384	.031	.019	.060	.050	.1900	.1834	-	-	3	.258	.175	.110	
1/4-20	.438	.428	.190	.172	.590	.551	.063	.029	.075	.064	.2500	.2428	-	-	2	.275	.175	.035	2000
1/4-20	.438	.428	.190	.172	.590	.560	.063	.037	.075	.064	.2500	.2428	-	-	3	.350	.210	.110	
5/16-18	.438	.428	.230	.208	.590	.560	.063	.037	.075	.064	.3125	-	-	3					
5/16-18	.500	.489	.230	.208	.676	.624	.055	.035			.3125	-	-	3					

Description	An integrally formed hex washer head screw with serrations on the bearing surface side of the washer face and a drill point. Serrations extend from outer edge of washer face to the screw shank. Thread design can be either spaced (like a type-BSD drill screw) or unified (type-CSD).
Applications/ Advantages	Used to attach plywood, soft wood or metal to metal. Serrated washer design adds greater holding power to components subject to vibrations caused by repeated movements. The 1/4-inch diameter screws, for instance, are commonly used to attach reinforcing strut or L-angle to garage doors.
Material	AISI 1016 - 1024 or equivalent steel
Heat Treatment	Fasteners are heat treated in a carbonitriding or gas-carburizing system at a minimum temperature of 625°F, or in a cyaniding system (with consent of the buyer) at a minimum temperature of 450°F.
Case Hardness	Rockwell C 50 - 56
Case Depth	#4 & #6 Diameters: .002 - .007 #8 thru #12 Diameters: .004 - .009 1/4" Diameter & larger: .005 - .011
Core Hardness	Rockwell C32 - 40
Minimum Torsional Strength for ZINC-plated screws	#8 diameter: 41 lb.-in. #10 diameter: 55 lb.-in. 1/4" diameter: 132 lb.-in. 5/16" diameter: (no industry standard)
Plating	Serrated hex washer self-drilling screws are usually supplied with a clear zinc finish.