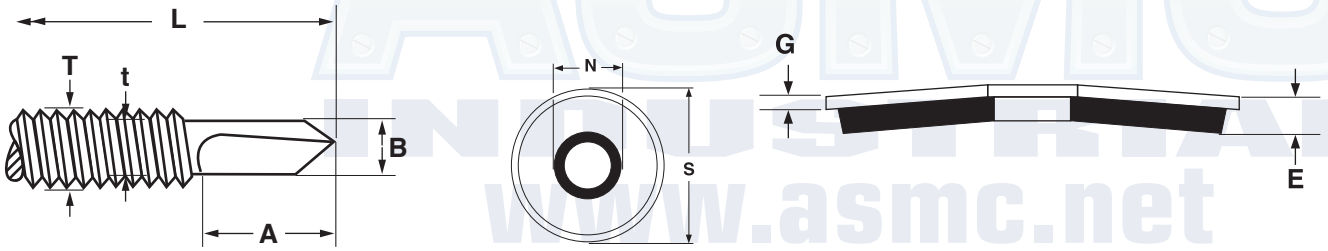
#4 & #5 Point with neo-EPDM Washer MACHINE SCREW Thread

SELF-DRILLING



#4 & #5 Point Self Drilling Screws, Unified Thread Pitch

Diameter & Thread Pitch	Point Size	T		t		A		B		Drilling Capacity		Performance Info--STEEL Screws only		
		Major Thread Diameter		Minor Thread Diameter		Drill Point Length		Drill Point Diameter				Steel Gauge	Shear Strength (lapped steel) (lbs.)	Pullout Strength (lbs.)
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min			
12-24	#4	.216	.207	.172	.168	.523	.495	.202	.190	.312	.145	12	1989	1489
12-24	#5	.216	.207	.172	.168	.640	.603	.202	.190	.500	.250	1/8	2622	2269
												1/4	2682	3882

* NOTE: Pullout and Shear values listed were achieved under laboratory conditions. They should be used as a guide and safety factors should be used when designing applications.

Neo-EPDM Washers used with Self Piercing & Self Drilling Screws

For Use with Screw of this Nominal Diameter	S		N		G		E	
	Outside Diameter of Steel Section		Inside Diameter of Steel Section		Thickness of Steel Section		Total Thickness (EPDM & Steel)	
	Max	Min	Max	Min	Max	Min	Max	Min
12	.558	.542	.243	.227	.039	.023	.125	.093

Description	A tapping screw with an integrally formed hex washer head, unified threads, and a drill point significantly longer than that of a # 2 or #3 point drill screw. Beneath the head is a thin conically-shaped circular steel washer, bonded to a similarly shaped rubber-like piece which as a slightly smaller outside and inside diameter. When these washers are assembled (rubber side down) to self-piercing or self-drilling screws, those fasteners become "sealing screws".
Applications/ Advantages	Designed to drill through a greater thickness of steel than a standard self drilling screw. Although it can assist in attaching metal deck to structural steel, the #4 & #5 point self drilling screws are not structural bolts and should not be used as such. The neo-EPDM washer: (a) offers protection against leakage; (b) provides load bearing qualities superior to that of a regular flat washer; (c) reduces the chance of the fastening becoming loose due to vibration; (d) minimizes damage to the mating surface caused by contact with a steel washer.
Material	***Screw:*** AISI 1016-1024 or equivalent steel; ***Steel Section of washer.*** 20 gauge steel; ***Elastic Section of washer.*** Style 40 EPDM sheet
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 625°F minimum.
Case Hardness	***Screw:*** Rockwell C52 -58
Case Depth	***No. 12 diameter:*** .004 - .009
Hardness	**Core:** Rockwell C32 - 40 (after tempering)
Shear Strength	The average ultimate values for shear strength are listed in the above table. Safety factors should be used when designing final applications.
Pull-out Strength	The average ultimate values for pull-out strength are listed in the above table. Safety factors should be used when designing final applications.
Plating	See Appendix-A for plating information.