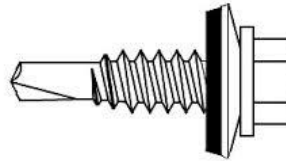


SELF-DRILLING SCREWS



Nominal Size or Basic Screw Diameter	Threads Per Inch	Major Diameter		Minor Diameter		Protrusion Allowance		Minimum Practical Nominal Screw Lengths, Formed Points				Minimum Torsional Strength, lb.-in. (STEEL SCREWS ONLY)	
		Max	Min	Max	Min	#2 Pt.	#3 Pt.	90° Head, #2 Pt	Csk Head, #2 Pt	90° Head, #3 Pt	Csk Head, #3 Pt		
		8	.1640	18	.166	.161	.122	.116	.211	.251	3/8		7/16
10	.1900	16	.189	.183	.141	.135	.235	.300	7/16	1/2	1/2	9/16	61
12	.2160	14	.215	.209	.164	.157	.283	.353	1/2	5/8	1/2	5/8	92
1/4	.2500	14	.246	.240	.192	.185	.318	.393	1/2	5/8	1/2	5/8	150

For Use with Screw of this Nominal Diameter	Outside Diameter of Steel Section		Inside Diameter of Steel Section		Thickness of Steel Section	Inside Diameter of EPDM Section		Thickness of EPDM Section	
	Max	Min	Max	Min	Ref	Max	Min	Max	Min
	8	.507	.491	.212	.196	.031	.149	.126	.087
10	.507	.491	.212	.196	.031	.149	.126	.087	.070
12	.558	.542	.243	.227	.031	.197	.172	.087	.070
14	.617	.601	.275	.259	.031	.232	.208	.087	.070

Description	A hex washer head tapping screw with spaced threads and a drill point which drills its own hole. 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	When properly assembled, this 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. Self-drilling sealing screws may be used to attach roofing or metal walls to steel frames. Consult a self-drilling screw selection chart for the correct size.
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 Washer: EPDM material: Shore A 65 - 75 (Durometer scale)
Case Depth of Screw	No. 4 and 6 diameter: .002 - .007 No. 8 thru 12 diameter: .004 - .009 1/4" diameter and larger: .005 - .011
Core Hardness	Rockwell C32 - 40 (after tempering)
Plating	See Appendix-A for plating information.