





	SELF-DRILLING SCREWS, TYPE BSD SAE J78-1998													
Nominal Size or Basic Screw		Threads Per Inch	T o/ t			t	P Protrusion Allowance		Minimum Practical Nominal Screw Lengths, Formed Points				Minimum Torsional Strength, lb in.	
			Major Diameter		Minor Diameter								(STEEL SCREWS	
Dia	neter	POI	Max	Min	_₹ Max	Min	#2 Pt.	#3 Pt.	90° Head, #2 Pt	Csk Head, #2 Pt	90° Head, #3 Pt	Csk Head, #3 Pt	ONLY)	
8	.1640	18	.166	.161	.122	.116	.211	.251	3/8	7/16	7/16	1/2	42	
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	

COARSE THREAD SELF DRILLING SCREWS - 5/16 & 3/8 DIAMETERS, #3 POINT Т Α В t **Nominal Size or Basic Threads Screw Diameter** Major Diameter Minor Diameter **Drill Point Length Drill Point Diameter** Per Inch Max Min Max Min Max Min Max Min 5/16 .3125 12 .315 .307 .272 .263 .421 .361 .270 .265 3/8 .3750 12 .380 .370 .308 .298 .354 .314 .338 .330

NEO-EPDM WASHERS USED WITH SELF PIERCING & SELF DRILLING SCREWS									
For Use with		5	ı	N	(E		
Screw of this Nominal Diameter	Outside Dian Sec			eter of Steel tion	Thickness of	Steel Section	Total Thickness (EPDM & Steel)		
Diameter	Max	Min	Max	Min	Max	OMin P	Max M	Min	
8	.507	.491	.212	.196	.039	.023	.125	.093	
10	.507	.491/	.212	.196	.039	.023	.125	.093	
12	.558	.542	.243	.227	.039	.023	.125	.093	
14 or 1/4	.617	.601	.275	.259	.039	.023	.125	.093	
5/16	.750	.720	.345	.315	.040	.032	.116	.086	
3/8		.720	.449	.419	.040	.032	.110	.080	

NOTE: There is no single standard for Neo-EPDM washers. These values are offered as a guide; deviations from these specifications may occur.									
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									
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: .002007 No. 8 thru 12 diameter: .004009 1/4" diameter and larger: .005011								
Core Hardness of Screw	Rockwell C32 - 40 (after tempering)								
Plating	See Appendix-A for plating information.								