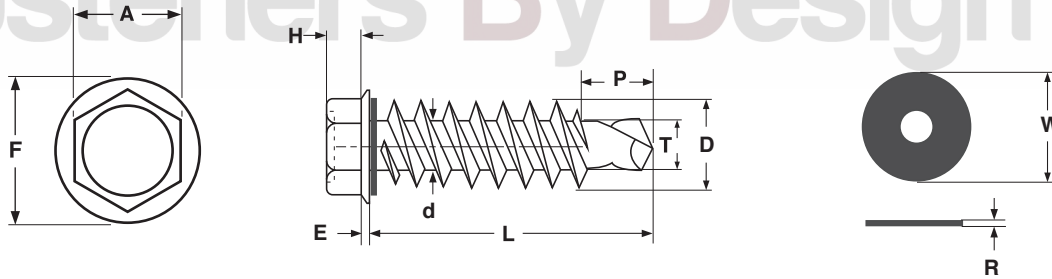


**SELF-DRILLING** **Unslotted Hex Flange with Rubber Washers**

Fasteners By Design Inc.



HEX FLANGE UNSLOTTED SELF-DRILLING SCREWS																				
Nom Size & Thrds per Inch	A		H		F		E		R		W	P		T		D		d		
	Width Across Flats		Head Height (without Flange)		Flange Diameter		Flange Thickness		Rubber Washer Thickness		Rubber Washer Diam	Length of Drill Point		Point Diameter		Major Diameter		Minor Diameter		
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Ref	Max	Min	Max	Min	Max	Min	Max	Min	Max
10-16	.312	.305	.126	.114	.512	.492	.106	.087	.098	.087	.335	.264	.236	.157	.154	.189	.182	.141	.135	
12-14	.312	.305	.169	.157	.571	.551	.130	.110	.118	.106	.413	.335	.295	.185	.181	.215	.209	.164	.157	
1/4-14	.375	.367	.169	.157	.571	.551	.130	.110	.118	.106	.441	.366	.335	.219	.215	.246	.237	.192	.185	
<b>Tolerance on Length</b>			Up to 3/4": +0 / -0.03						Over 3/4" to 1.5": +0 / -0.05						Over 1.5": +0 / -0.06					

<b>Description</b>	An unslotted hex head tapping screw with a conical flange and free spinning, captive rubber washer. The underside of the flange is undercut, creating a space for the rubber washer to be seated. Screw has spaced threads and a drill point which drills its own hole.
<b>Applications/ Advantages</b>	When properly installed, this fastener: (a) offers protection against leakage, and (b) minimizes damage to the mating surface caused by contact with a steel washer. Sealing screws may be used to attach roofing or metal walls to steel frames. Ruspert finish makes these screws a more economical option than stainless for resisting corrosion. Consult a self-drilling screw selection chart for the correct size.
<b>Material</b>	<i>Screw:</i> AISI 1016-1024 or equivalent steel; <i>Rubber washer:</i> Style 40 EPDM sheet
<b>Heat Treatment</b>	Screws shall be quenched in liquid and then tempered by reheating to 625°F minimum.
<b>Case Hardness</b>	<i>Screw:</i> Rockwell C52 -58 <i>Rubber Washer:</i> Shore A 65 - 75 (Durometer scale)
<b>Case Depth of Screw</b>	<i>No. 10 &amp; 12 diameters:</i> .004 - .009 <i>1/4" diameter and larger:</i> .005 - .011
<b>Core Hardness of Screw</b>	Rockwell C32 - 40 (after tempering)
<b>Plating</b>	Screws typically have a Silver Ruspert finish with a 1,000-hour salt-spray rating for resisting red rust.

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