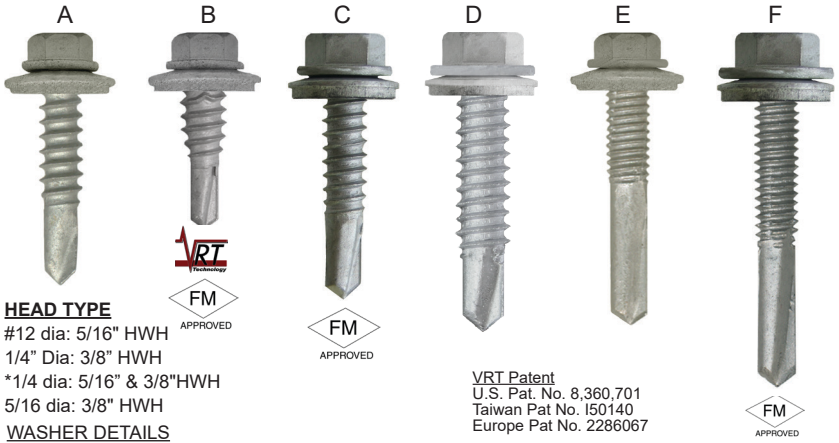
BLAZER® SELF-DRILLING SCREWS With Sealing Washers

BOND-SEAL SEALING WASHER

- The BOND-SEALER™ sealing washer is EPDM vulcanized to a 20 Gauge galvanized backing.
- TRI-SEAL® long life coated for superior corrosion protection.

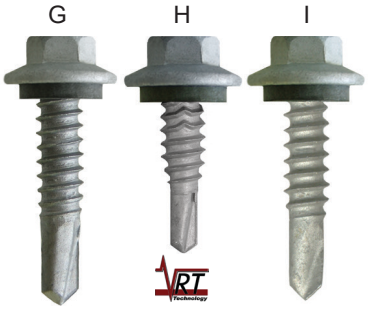


HEAD TYPE
#12 dia: 5/16" HWH
1/4" Dia: 3/8" HWH
*1/4 dia: 5/16" & 3/8"HWH
5/16 dia: 3/8" HWH

VRT Patent
U.S. Pat. No. 8,360,701
Taiwan Pat No. I50140
Europe Pat No. 2286067

WASHER DETAILS
20 ga G-90 Galvanized Steel | Vulcanized to .062" thick non-conductive EPDM | 15MM OD Washer
Special sizes available upon request.

FLANGE-SEAL HEAD with EPDM WASHER

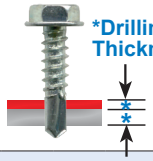


- FLANGE-SEAL™ self-sealing fastener has a deep undercut head that entraps the EPDM sealing washer to assure a leak free seal.
- TRI-SEAL® long-life coated for superior corrosion protection.

WASHER DETAILS
.125" Thick EPDM
Non-conductive

HEAD TYPE
5/16" HWH with Flange
Undercut

Drill Point and Length Selection

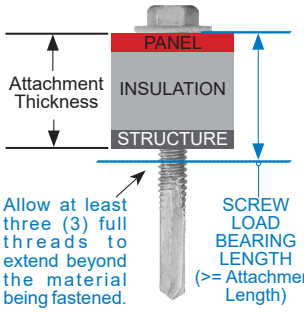


1. Determine the Screw Drill Point Type

a. Add up the total thickness that will be drilled by the screw.
b. Select the desired drill point (DP) type and screw size located on the size chart below.

Drilling and Tapping Thickness

Screw & Point	Gauge	24	20	18	16	14		12	10					
	Inch	.024	.036	.048	.060	.075	.100	.105	.135	.175	.210	.250	.375	.500
	1/4-14 DP1	.024" - .072"												
	#8-18 DP2	.024" - .100"												
	#10-16 DP3	.024" - .175"												
	#10-24 DP3			.048" - .210"										
	#12-14 DP3	.024" - .210"												
	1/4-14 DP3		.035" - .250"											
	5/16-12 DP3			.048" - .175"										
	#12-24 DP4									.175" - .375"				
	#12-24 DP5									.175" - .500"				
	1/4-20 DP5									.175" - .500"				



2. Determine Screw Length

a. Measure from the top surface of the material being fastened to the underside of the metal that will be drilled and tapped. Be sure to allow for any void or insulation. This is called the attachment thickness.

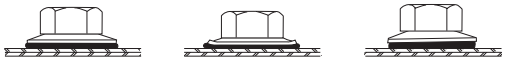
b. Select a screw length where the attachment thickness is less than or equal to the *Load Bearing Length* listed on the chart to the right.

SIZES

Blue colored sizes denotes popular DC items

Item	SIZE	Point Type	LENGTH	Load Bearing Length (Max)	Box Qty
A	#12-14	DP2	**3/4"**	.125"	5M
			1"	.250"	3.5M
			1-1/4"	.625"	3M
			1-1/2"	.750"	2M
			2"	1.25"	2M
			2-1/2"	1.75"	1M
			3"	2.25"	1M
B	1/4-14	DP1-VRT	***7/8" VRT**	.325"	2.5M
C	1/4-14	DP3	3/4"	.125"	2.5M
			***1"**	.250"	2.5M
			***1-1/4"**	.625"	2M
			1-1/2"	.875"	2M
			2"	1"	1.5M
			2-1/2"	1.50"	1M
			3"	1.25" - 2.25"	1M
			4"	1.73" - 3.25"	500
			5"	2.6" - 4.25"	500
			6"	3.6" - 5.25"	250
			8"	5.6" - 7.25"	250
			10"	7.6" - 9.25"	250
D	5/16-12	DP3	**1"**	.250"	1.5M
			1-1/2"	.875"	1M
			2"	1.25"	1M
			3"	2.25"	750
			4"	3.25"	500
			6"	2.50 - 5"	500
			8"	4.25" - 7"	200
E	#12-24	DP5	**1-1/4"**	.500"	3M
			1-1/2"	.625"	2M
			2"	.750"	3M
F	1/4-20 5/8" OD washer Face	DP5	**1-1/2"**	.500"	2M
			2-1/4"	1.250"	1M
			3-1/8"	2-1/8"	1M
			4"	3"	250
			5"	4"	250
			6"	**2.50" - 5"**	**250**
			8"	**4.25" - 7"**	**150**
FLANGE-SEAL HEAD					
G	#12-14	DP3	**1"**	.250"	3.5M
			1-1/4"	.625"	3M
			1-1/2"	.750"	2M
			2"	1.250"	2M
			2-1/2"	1.5"	1.5M
			3"	2.25"	1M
			4"	3.25"	500
H	1/4-14	DP1-VRT	***7/8" VRT**	.325"	2.5M
I	1/4-14	DP3	1"	.250"	2.5M
			1-1/4"	.625"	2.5M
			1-1/2"	.875"	2M
			2"	1"	1.5m

Proper Fastener Installation



CORRECT
Slight circle of sealant extrudes to outer edge.

TOO TIGHT!
Metal backing begins to turn up.

TOO LOOSE
Sealant not compressed, can't form a seal.

To assure a proper seal, torque the fastener until the EPDM sealant extrudes to the outer edge of the backing material.

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes. (0321-1)