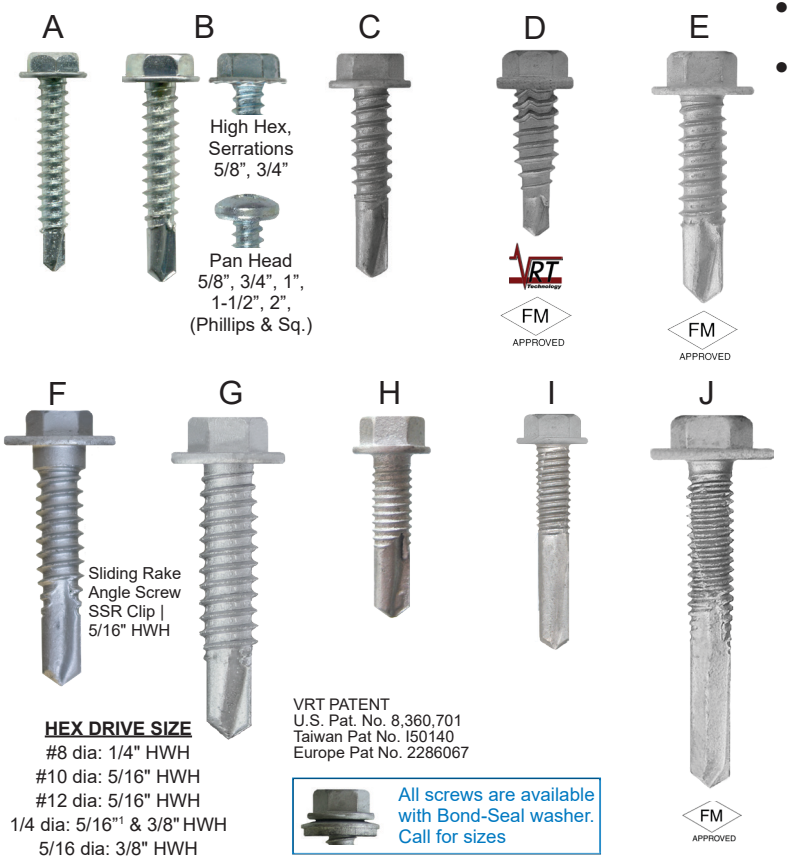
# HEX WASHER HEAD
# BLAZER® SELF-DRILLING SCREWS




**HEX DRIVE SIZE**
#8 dia: 1/4" HWH
#10 dia: 5/16" HWH
#12 dia: 5/16" HWH
1/4 dia: 5/16"[1] & 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

All screws are available with Bond-Seal washer. Call for sizes

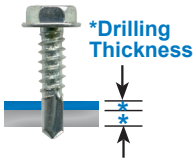
- The hex washer head is the most popular drive system and provides the best stability during installation.
- Available with TRI-SEAL® long life coating for the ultimate corrosion protection...1,000 hrs salt spray with no red rust!

## SIZES

**Blue colored sizes denotes popular DC items**

| ITEM | SIZE | Point Type | LENGTHS | Load Bearing Length (MAX) | Box Qty |
|---|---|---|---|---|---|
| A | #8-18 | DP2 | 1/2" | .100" | 10M |
| | | | 5/8" | .125" | 10M |
| | | | 3/4" | .250" | 10M |
| | | | 1" | .500" | 7.5M |
| | | | 1-1/4" | .750" | 5M |
| | | | 1-1/2" | 1" | 5M |
| | | | 2" | 1.5" | 1.5M |
| B | #10-16 | DP3 | 1/2" | .100" | 10M |
| | | | **5/8"** | .125" | 5M |
| | | | **3/4"** | .250" | 5M |
| | | | **3/4" HH/SERR** | .250" | 5M |
| | | | **1"** | .500" | 5M |
| | | | **1-1/2"** | 1" | 3.5M |
| | | | 2" | 1.500" | 2M |
| | | | 3" | 2.500" | 1M |
| C | #12-14 | DP3 | **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 |
| | | | **4"** | 3.75 | 500 |
| D | 1/4-14[1] VRT | DP1 | **7/8" VRT** | .325" | 2.5M |
| E | 1/4-14 | DP3 | **3/4"** | .125" | 2.5M |
| | | | **1"** | .250" | 2.5M |
| | | | **1-1/4"**[1] | .625" | 2M |
| | | | **1-1/2"**[1] | .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 |
| | | | **9"** | 6.6" - 8.25" | 250 |
| | | | **10"** | 7.6" - 9.25" | 250 |
| F | 1/4-14 SHLDR | DP3 | **1-1/4"** | .625" | 3.5M |
| G | 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 |
| | | | **5"** | 1.38 - 4.25" | 500 |
| | | | **6"** | 2.50 - 5" | 500 |
| | | | **8"** | 4.25" - 7" | 200 |
| H | #12-24 | DP4 | **7/8"** | .325" | 5M |
| | | | **1-1/4"** | .500" | 2.5M |
| I | #12-24 | DP5 | **1-1/4"** | .500" | 2M |
| | | | **1-1/2"** | .625" | 1.5M |
| | | | **2"** | .750" | 1.5M |
| J | 1/4-20 5/8" OD washer face | DP5 | **1-1/2"** | .500" | 2M |
| | | | **2-1/4"** | 1.250" | 1M |
| | | | **2-1/2"** | 1.500" | 1M |
| | | | **3-1/8"** | 2.125" | 1M |
| | | | **4"** | 3" | 250 |
| | | | **5"** | 4" | 250 |
| | | | **6"** | 2.50" - 5" | 250 |
| | | | **7"** | 3.38" - 6" | 500 |
| | | | **8"** | 4.25" - 7" | 500 |

## Drill Point and Length Selection

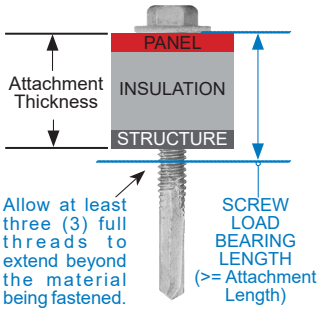



**1. Determine the Screw Drill Point Type**

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.

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)