

SIZES AND PERFORMANCE SPECIFICATIONS



#15-13 DP1 DRILL POINT TRUSS HEAD CARBON STEEL

Uses: Wood, concrete or steel (16 ga. - 22 ga.).
Material: Carbon Steel

Corrosion Protection: Epoxy coating (black) meets or exceeds FM4470 corrosion standards and withstands 15 cycles of the Kesternich DIN 50018 SFW 2.0 test.

Head Height: .095" - .105"
Head Diameter: .425" - .440"

Great for retrofit base attachment. Tap up to 1/2" thick steel. Use 1/4" drill bit.



| Screw Length | Thread Length | Pieces/Pail | Weight/Pail |
|--------------|---------------|-------------|-------------|
| 1 1/4 | FULL | 1000 | 14# |
| 2 | FULL | 1000 | 21# |
| 3 | 2 7/8 | 1000 | 31# |
| 4 | 3 7/8 | 1000 | 40# |
| 5 | 3 7/8 | 1000 | 49# |
| 6 | 3 7/8 | 500 | 29# |
| 7 | 3 7/8 | 500 | 34# |
| 8 | 3 7/8 | 500 | 38# |
| 9 | 3 7/8 | 500 | 43# |
| 10 | 3 7/8 | 500 | 48# |
| 11 | 3 7/8 | 500 | 52# |
| 12 | 3 7/8 | 500 | 57# |
| 14 | 3 7/8 | 250/Bx | 33#/Bx |
| 16 | 3 7/8 | 250/Bx | 38#/Bx |
| 18 | 3 7/8 | 250/Bx | 43#/Bx |
| 20 | 3 7/8 | 250/Bx | 47#/Bx |
| 22 | 3 7/8 | 250/Bx | 52#/Bx |
| 24 | 3 7/8 | 250/Bx | 56#/Bx |

ATTACHMENT TIPS

Metal Deck: Fastener must penetrate the deck by a minimum of 3/4".

Concrete and Wood: Fastener embedment of 1" or a minimum of 1" penetration through wood decking.

| Property | Standard | Average Ultimate Value |
|-----------------------|--------------------------------|-------------------------------|
| Tensile Strength | ASTM F606-10 | 2500 Lb. |
| Shear Strength: | NASM 1312-20 | 2200 Lb. (thread zone) |
| Corrosion Resistance: | FM 4470, ASTM D6294, DIN 50018 | <15% Red Rust after 30 cycles |

Pullout for #15 DP1 Carbon Steel SENTRY PLUS FIVE® (Loads are average ultimate)

| Pull-out Values in Concrete 3000PSI | |
|-------------------------------------|-----------|
| 1" Embedment | 1002 lbs. |

Drill Bit Size - Steel

1/4" 135° Split Point
*Pre-drilling required for steel thicker than 14 Ga.

Drill Bit Size - Concrete

7/32" Carbide Tip

| Thickness | APA Rated OSB | | | | APA Rated Plywood | | | SPF #2 |
|---------------|---------------|--------|--------|--------|-------------------|--------|--------|--------|
| | 7/16" | 15/32" | 19/32" | 23/32" | 15/32" | 19/32" | 23/32" | |
| Pullout (lb.) | 270 | 290 | 310 | 410 | 360 | 410 | 730 | 795* |

REV JS110615

| Thickness | 24 ga. | | 22 ga. | | 20 ga. | | | 18 ga. | | | 16 ga. | | | 14 ga | 12 ga | 1/8" | 1/4" |
|----------------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|
| Yield Strength | 36.5 ksi | 33.0 ksi | 80.0 ksi | 102.0 ksi | 33.0 ksi | 80.0 ksi | 102.0 ksi | 33.0 ksi | 80.0 ksi | 102.0 ksi | 33.0 ksi | 80.0 ksi | 102.0 ksi | 50.0 ksi | 50.0 ksi | 50.0 ksi | 50.0 ksi |
| Pullout (lb.) | 255 | 315 | 480 | 560 | 420 | 615 | 710 | 675 | 885 | 985 | 850 | 1115 | 1240 | 1160 | 1624 | 1934 | 3868 |



3" METAL STRESS PLATE

Testing: Meets or exceeds Factory Mutual I-60 or I-90 wind up lift specifications when properly installed on most insulation boards.

Feature: Plate is formed from 26 gauge Galvalume® steel.

Use with Phillips Truss Head fastener.

Uses: They are used with virtually all types of insulation board used for roofing systems.

Galvalume is a trademark of BIEC International, Inc.



Square, Hex, Round, Steel or Plastic...We have what you need!

- 3" x 3" Square Recessed Galvalume Metal
- 3" x 3" Square Flat Bottom Galvalume Metal
- 3" Across Flats Hex Galvalume Metal
- 3" Across Flats Hex Plastic
- 2" Round Galvalume Metal (Standard)
- 3" Round Galvalume Metal (Standard)
- 3" Round Plastic



DISCLAIMER

The performance specifications published in this literature are based on controlled laboratory tests and are intended as a guideline only. They are not guaranteed in any way by TFC (the manufacturer), since building design, engineering, and construction, including workmanship and materials, are beyond the control of the manufacturer. The manufacturer recommends that pull-out tests be conducted to verify the substrate provides adequate pull-out values.