

## PRODUCT SUBMITTAL

**Submitted to:**

Project:

Date of Submittal:

**Submitted by, Contact name:**

Company:

Address:

Phone:

Email:

Approved

Approved as Noted

Not Approved

Comments:

By:

Date:

---

List of items from Table A submitted for the project:

|  |
|--|
|  |
|--|

# Product Family S-DPF - SCORPION-Self-Drilling Pan Framing Head Fine Thread

**TABLE A**

| Item Number | Screw Size (#) | Length    | Head Style  | Head/Washer Diameter | TPI | Point Size | Coating    | Maximum Total Drilling Thickness | Drive Type  | Bulk Quantity | Special Features  |
|-------------|----------------|-----------|-------------|----------------------|-----|------------|------------|----------------------------------|-------------|---------------|---|
| DP716L      | 6              | 7/16-in.  | Low Profile | 0.285-in.            | 20  | 3          | Phosphate  | 0.112-in.                        | #2 Phillips | 10,000        | Reduced head style  |
| DP716       | 6              | 7/16-in.  | Pan Framing | 0.300-in.            | 20  | 3          | Phosphate  | 0.112-in.                        | #2 Phillips | 15,000        |   |
| DPZ716      | 6              | 7/16-in.  | Pan Framing | 0.300-in.            | 20  | 3          | Clear Zinc | 0.112-in.                        | #2 Phillips | 15,000        |   |
| DPZ7716     | 7              | 7/16-in.  | Pan Framing | 0.300-in.            | 19  | 3          | Clear Zinc | 0.120-in.                        | #2 Phillips | 15,000        |   |
| T2PP8012    | 8              | 1/2-in.   | Pan         | 0.314-in.            | 18  | 2          | Clear Zinc | 0.120-in.                        | #2 Phillips | 10,000        |   |
| T2PP8034    | 8              | 3/4-in.   | Pan         | 0.314-in.            | 18  | 2          | Clear Zinc | 0.120-in.                        | #2 Phillips | 10,000        |   |
| T2PP8100    | 8              | 1-in.     | Pan         | 0.314-in.            | 18  | 2          | Clear Zinc | 0.120-in.                        | #2 Phillips | 8,000         |   |
| T2PP8114    | 8              | 1-1/4-in. | Pan         | 0.314-in.            | 18  | 2          | Clear Zinc | 0.120-in.                        | #2 Phillips | 5,000         |   |
| T2PP8112    | 8              | 1-1/2-in. | Pan         | 0.314-in.            | 18  | 2          | Clear Zinc | 0.120-in.                        | #2 Phillips | 5,000         |   |
| T3PP10012   | 10             | 1/2-in.   | Pan         | 0.365-in.            | 16  | 3          | Clear Zinc | 0.175-in.                        | #2 Phillips | 10,000        |   |
| DPZ058      | 10             | 5/8-in.   | Pan         | 0.365-in.            | 16  | 3.5        | Clear Zinc | 0.210-in.                        | #2 Phillips | 8,000         | Super-Tek Point   |
| DPZ0587M    | 10             | 5/8-in.   | Pan         | 0.365-in.            | 16  | 3.5        | Clear Zinc | 0.210-in.                        | #2 Phillips | 7,000         | Super-Tek Point   |
| DPZ058L     | 10             | 5/8-in.   | Pan Framing | 0.364-in.            | 24  | 3.5        | Clear Zinc | 0.210-in.                        | #2 Phillips | 8,000         |   |
| T3PP10058   | 10             | 5/8-in.   | Pan         | 0.365-in.            | 16  | 3          | Clear Zinc | 0.175-in.                        | #2 Phillips | 7,500         | Super-Tek, Low profile head with spiral notches on thread |
| DPZ0345M    | 10             | 3/4-in.   | Pan         | 0.365-in.            | 16  | 3.5        | Clear Zinc | 0.210-in.                        | #2 Phillips | 5,000         | Super-Tek Point   |
| T3PP10034   | 10             | 3/4-in.   | Pan         | 0.365-in.            | 16  | 3          | Clear Zinc | 0.175-in.                        | #2 Phillips | 8,000         |   |
| T3PP10100   | 10             | 1-in.     | Pan         | 0.365-in.            | 16  | 3          | Clear Zinc | 0.175-in.                        | #2 Phillips | 5,000         |   |

Suffixes: PP = 1-lb, FP = 5-lb, CP = Count Pack

Description: Self-Drilling Pan Framing head screw used in heavy-gauge (see TABLE A - Maximum Total Drilling Thickness) metal-to-metal applications. Self tapping drill point is designed for penetration into heavy-gauge steel.

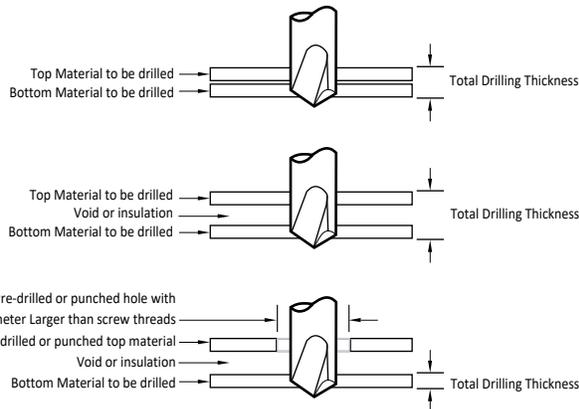
Directions: For optimal performance, use a standard screwgun with an adjustable torque nose piece to prevent overdriving; very important. Use extra caution when installing with impact drivers. Recommended screwgun/driver specification include - Screw sizes #8 to #10, up to 2,500 RPM. The head is fully seated when the bearing surface of the head is flush with the work surface. The fastener must penetrate beyond the metal a minimum of three full threads.

Corrosion: For Corrosion Resistance Testing Results, see TABLE B.

Certifications: S-DBF fasteners are used for metal-to-heavy-gauge metal applications.

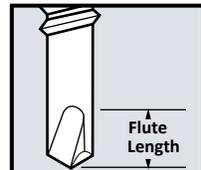
## Self-Drilling Screw Selection Guide

### DRILL POINT SELECTION



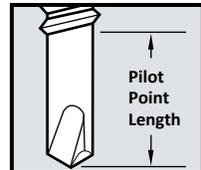
#### Drill Flute (Point Length)

The length of the drill flute determines the metal thickness that can be drilled. The flute itself provides a channel for chip removal during drilling action. If it becomes completely embedded in material, drill chips will be trapped in the flute and cutting action will cease. This will cause the point to burn up or break.



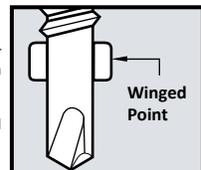
#### Pilot Point Length

The un-threaded section from the point to the first thread should be long enough to assure the drilling action is complete before the first thread engages the drilled metal. Screw threads advance at a rate of up to ten times faster than the drill flute can remove metal. All drilling therefore should be complete before threads begin to form.

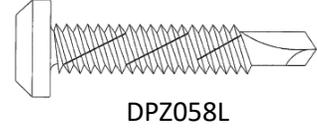
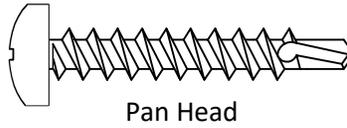
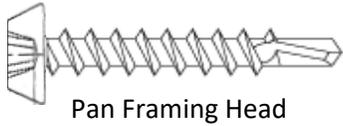


#### Drilling Through Wood To Metal

If your application calls for drilling through wood over 1/2-in. thick, a clearance hole is required. Select a fastener with break away wings for this type of job. The wings will ream a clearance hole and break-off when in contact with metal surface (minimum metal thickness .040-in.) to be drilled.



**S-DPF - SCORPION-Self-Drilling Pan Framing Head Fine Thread**



**TABLE B**

| CORROSION RESISTANCE TESTING RESULTS |            |                   |                       |
|--------------------------------------|------------|-------------------|-----------------------|
| Finish                               | Test       | Standard/Protocol | Results (minimum)     |
| Phosphate                            | Salt Spray | ASTM B117         | 24 hours, no red rust |
| Clear Zinc                           | Salt Spray | ASTM B117         | 12 hours, no red rust |

NOTE: Salt Spray Testing (SST) results are not intended to predict corrosion resistance in real-world environments. The ASTM B117 standard for SST is recognized industry-wide as an effective tool to compare different metals and different metal coatings in a tightly controlled highly corrosive environment for specific periods of time. For more information about corrosion resistance, see the *Grabber Guide to Corrosion Resistance for Fasteners*.

**TRADEMARKS:**

The following trademarks used herein are owned by Grabber Construction Products, Inc.:

GRABBER®  
SCORPION®

**NOTICE:**

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instruction or for other than the intended use. Our Liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days of the date it was or reasonably should have been discovered.