

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-DTF - SCORPION Self-Drilling Trim Head Fine Thread

TABLE A

Item Number	Screw Size (#)	Length	Head Style	Head Diameter	TPI	Point Size	Coating	Maximum Total Drilling Thickness	Drive Type	Bulk/Collated Quantity	Application/Features
DPTR158	7	1-5/8-in.	Trim	0.246-in.	19	3	Clear Zinc	0.120-in.	#1 Square	5,000	Trim to metal up to 0.120-in.
DPTR214	7	2-1/4-in.	Trim	0.246-in.	19	3	Clear Zinc	0.120-in.	#1 Square	3,000	Trim to metal up to 0.120-in.
DPTR300	8	3-in.	Trim	0.266-in.	18	3	Clear Zinc	0.140-in.	#1 Square	2,000	Trim to metal up to 0.140-in.

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

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

Directions: Use a standard screwgun with a depth sensitive nose piece. Suggested screwgun specification for optimal performance - Sizes #7 and #8, up to 2,500 RPM. The head is fully seated when the top of the head is flush with the work surface.

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

Certifications: S-DWF fasteners comply with ASTM C1513.

Self-Drilling Screw Selection Guide

DRILL POINT SELECTION

Top Material to be drilled
Bottom Material to be drilled

Total Drilling Thickness

Top Material to be drilled
Void or insulation
Bottom Material to be drilled

Total Drilling Thickness

Pre-drilled or punched hole with diameter Larger than screw threads
Pre-drilled or punched top material
Void or insulation
Bottom Material to be drilled

Total Drilling Thickness

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.

Flute Length

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.

Pilot Point Length

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.

Winged Point

S-DTF - SCORPION Self-Drilling Trim Head Fine Thread

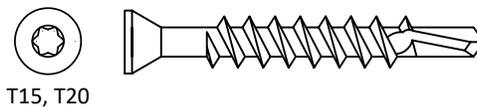


TABLE B

CORROSION RESISTANCE TESTING RESULTS			
Finish	Test	Standard/Protocol	Results (minimum)
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.