

PRODUCT SUBMITTAL

Submitted to:

Project:

Date of Submittal:

Submitted by, Contact name:

Company:

Address:

Phone:

Email:

Approved

Approved as Noted

Not Approved

Comments:

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By:

Date:

List of items from Table A submitted for the project:

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Product Family - S-DWF - SCORPION Self-Drilling Wafer 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
INDP114	8	1-1/4-in.	Wafer	0.400-in.	18	3	NanoGard®	0.140-in.	#2 Phillips	5,000	Cement board to metal up to 0.140-in./Underhead nibs
INDP158	8	1-5/8-in.	Wafer	0.400-in.	18	3	NanoGard®	0.140-in.	#2 Phillips	4,000	Cement board to metal up to 0.140-in./Underhead nibs
INDP214	8	2-1/4-in.	Wafer	0.400-in.	18	3	NanoGard®	0.140-in.	#2 Phillips	2,500	Cement board to metal up to 0.140-in./Underhead nibs
T3PW10034XT	10	3/4-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	5,000	Plywood and Sheathing to metal up to 0.175-in./with Wings
T3PW10034XTNW	10	3/4-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	5,000	Sheathing to metal up to 0.175-in.
T3PW10100XT	10	1-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	3,500	Plywood and Sheathing to metal up to 0.175-in./with Wings
T3PW10100XTNW	10	1-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	3,500	Sheathing to metal up to 0.175-in.
T3PW10114XT	10	1-1/4-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	3,500	Plywood and Sheathing to metal up to 0.175-in./with Wings
T3PW10114XTNW	10	1-1/4-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	3,500	Sheathing to metal up to 0.175-in.
T3PW101716Z	10	1-7/16-in.	Wafer	0.474-in.	24	3	Clear Zinc	0.175-in.	#2 Phillips	4,000	Sheathing to metal up to 0.175-in.
T3PW10158	10	1-5/8-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	3,000	Plywood and Sheathing to metal up to 0.175-in./with Wings
T3PW10200XTNW	10	2-in.	Wafer	0.474-in.	24	3	NanoGard®	0.175-in.	#2 Phillips	2,000	Sheathing to metal up to 0.175-in.

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

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

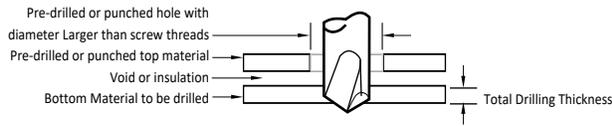
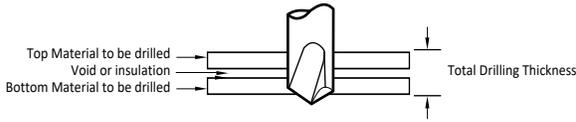
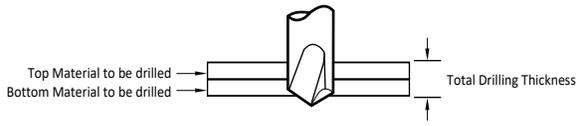
Directions: Use a standard screwgun with a depth sensitive nose piece. Suggested screwgun specification for optimal performance - Size #8 - #10, up to 2,500 RPM. Use extra caution when installing with an impact driver. The head is fully seated when the top of the head is flush with the work surface. Overdriving may result in failure of the fastener.

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

Certifications: S-DWF fasteners comply with ASTM C1513.

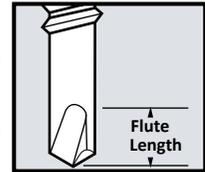
Self-Drilling Screw Selection Guide

DRILL POINT SELECTION



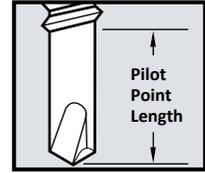
Drill Flute (Point Length)

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.



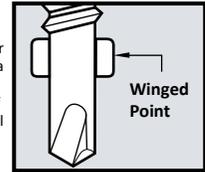
Pilot Point Length

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-DWF - SCORPION Self-Drilling Wafer Head Fine Thread

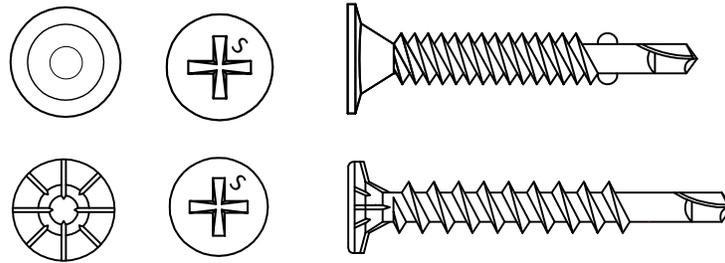


TABLE B

CORROSION RESISTANCE TESTING RESULTS			
Finish	Test	Standard/Protocol	Results (minimum)
NanoGard®	Salt Spray	ASTM B117	1000 hours, no red rust
Clear Zinc	Salt Spray	ASTM B117	12hours, 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*.

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