

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 - DFF - Self-Drilling Flat Head Fine Thread

TABLE A

Item Number	Screw Size (#)	Length	Head Style	Head Diameter (in.)	TPI	Point Size/Style	Coating	Maximum Total Drilling Thickness (in.)	Drive Type	Bulk/Collated Quantity	Special Features
P8516F3	8	1-5/16-in	Flat	0.313	18	3 Pilot	Clear Zinc	0.140	#2 Phillips	6,000	
P81516F3	8	1-15/16-in	Flat	0.313	18	3 Pilot	Clear Zinc	0.140	#2 Phillips	4,000	
HG158SD	8	1-5/8-in	Flat	0.325	18	3 Pilot	GrabberGard®	0.140	#2 Phillips	5,000	with 6 Nibs underhead
MG158SD	8	1-5/8-in	Flat	0.309	18	3 Pilot	GrabberGard®	0.140	#2 Phillips	6,000	with 4 Nibs underhead
CMG158SD	8	1-5/8-in	Flat	0.309	18	3 Pilot	GrabberGard®	0.140	#2 Phillips	1,000	with 4 Nibs underhead, Collated
CM158SDZJBW	8	1-5/8-in	Flat	0.354	18	3.5 Pilot	Clear Zinc	0.175	#2 LOX	1,000	Collated
CM175SDZJBW	8	1-3/4-in	Flat	0.354	18	3.5 Pilot	Clear Zinc	0.175	#2 LOX	1,000	Collated
M175SDZJBW	8	1-3/4-in	Flat	0.354	18	3 Pilot	Clear Zinc	0.140	#2 LOX	4,000	
MG238SD	8	2-3/8-in	Flat	0.309	18	3 Pilot	GrabberGard®	0.140	#2 Phillips	2,500	with 4 Nibs underhead
C10175TYZE	10	1-3/4-in	Flat	0.368	15	3.5 Pilot	Yellow Zinc	0.210	T25	1,000	with Wings, Collated
CM10178SDZJBW	10	1-7/8-in	Flat	0.354	18	3.5 Pilot	Clear Zinc	0.210	#2 LOX	1,000	Collated
M10178SDZJBW	10	1-7/8-in	Flat	0.354	18	3 Pilot	Clear Zinc	0.175	#2 LOX	3,000	
CM10178JBWRG	10	1-7/8-in	Flat	0.354	18	3.5 Pilot	GrabberGard®	0.210	#2 LOX	1,000	Collated
C12158LYZ	12	1-5/8-in	Flat	0.362	18	5	Yellow Zinc	0.500	#2 LOX	1,000	with Wings, Collated
CTB12158LYZ	12	1-5/8-in	Flat	0.362	18	3	Yellow Zinc	0.210	#2 LOX	5,000	with Wings
12200FW3	12	2-in	Flat	0.413	24	3 Pilot	Clear Zinc	0.210	#3 Phillips	2,000	with Wings
12200FW3RG	12	2-in	Flat	0.413	24	3 Pilot	GrabberGard®	0.210	#3 Phillips	2,000	with Wings
12200FW4	12	2-in	Flat	0.413	24	4 Pilot	Clear Zinc	0.250	#3 Phillips	2,000	with Wings
CC12200LRG	12	2-in	Flat	0.362	18	5	GrabberGard®	0.500	#2 LOX	1,000	with Wings, ESR 4223, Collated
1224225F4RG	12	2-1/4-in	Flat	0.413	24	4	GrabberGard®	0.210	#3 Phillips	1,500	
12250F3	12	2-1/2-in	Flat	0.413	24	3 Pilot	Clear Zinc	0.210	#3 Phillips	1,500	
12250F3RG	12	2-1/2-in	Flat	0.413	24	3 Pilot	GrabberGard®	0.210	#3 Phillips	1,500	
12250FW3	12	2-1/2-in	Flat	0.413	24	3 Pilot	Clear Zinc	0.210	#3 Phillips	1,500	with Wings
12250FW3RG	12	2-1/2-in	Flat	0.413	24	3 Pilot	GrabberGard®	0.210	#3 Phillips	1,500	with Wings
CC12250LRG	12	2-1/2-in	Flat	0.362	18	5	GrabberGard®	0.500	#2 LOX	1,000	with Wings, ESR 4223, Collated
CC12250LYZ	12	2-1/2-in	Flat	0.362	18	5	Yellow Zinc	0.500	#2 LOX	1,000	with Wings, Collated
12275FW3RG	12	2-3/4-in	Flat	0.413	24	3 Pilot	GrabberGard®	0.210	#3 Phillips	1,000	with Wings
12275FW4	12	2-3/4-in	Flat	0.413	24	4 Pilot	Clear Zinc	0.250	#3 Phillips	1,000	with Wings
1224275F4RG	12	2-3/4-in	Flat	0.413	24	4	GrabberGard®	0.210	#3 Phillips	1,000	
14275FW3	14	2-3/4-in	Flat	0.476	20	3 Pilot	Clear Zinc	0.220	#3 Phillips	1,000	with Wings
14300FW4RG	14	3-in	Flat	0.476	20	4 Pilot	GrabberGard®	0.250	#3 Phillips	1,000	with Wings
14325FW4RG	14	3-1/4-in	Flat	0.476	20	4 Pilot	GrabberGard®	0.250	#3 Phillips	1,000	with Wings
14350FW4RG	14	3-1/2-in	Flat	0.476	20	4 Pilot	GrabberGard®	0.250	#3 Phillips	1,000	with Wings
14375FW4RG	14	3-3/4-in	Flat	0.476	20	4 Pilot	GrabberGard®	0.250	#3 Phillips	500	with Wings
1420400F5RG	14	4-in	Flat	0.476	20	5	GrabberGard®	0.250	#3 Phillips	1,000	

Grabber screws manufactured in America are available as SPECIAL-ORDER INVENTORY. CONTACT GRABBER FOR CURRENT PRICE AND AVAILABILITY. For identification purposes, an "A" will be added to the end of the item number and "Made in America" will be printed on the label.

Prefixes: C = Collated, X = 1-lb, VB = 5-lb, BP = Blister Pack

Description: Self-drilling flat head screw used in heavy-gauge (see TABLE A - Maximum Total Drilling Thickness) sheathing-to-metal applications. Self tapping drill point is designed for penetration into heavy-gauge steel. Screws with special featured wings on the drill point eliminate the need to pre-drill the wood.

Directions: Use a standard screwgun with a depth sensitive nose piece. Suggested screwgun specification for optimal performance - Size #8 - #10, Up to 2500 RPM, Size #12 - #14, Up to 1800 RPM. Overdriving may result in failure of the fastener.

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

Certifications: All GRABBER® screw products are manufactured in facilities that are ISO 9001. Fasteners listed above comply with the intent of ASTM C1513 and SAE J78. Fasteners used in attaching gypsum sheathing panels to metal comply with ASTM C954. Items CC12200LRG and CC12250LRG are listed in ICC - ESR-4223: CHECK REPORT.

Self-Drilling Screw Selection Guide

DRILL POINT SELECTION

Top Material to be drilled

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.

Top Material to be drilled

Void or insulation

Bottom Material to be drilled

Total Drilling Thickness

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.

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

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.

Flute Length

Pilot Point Length

Winged Point

DFF - Self-Drilling Flat Head Fine Thread

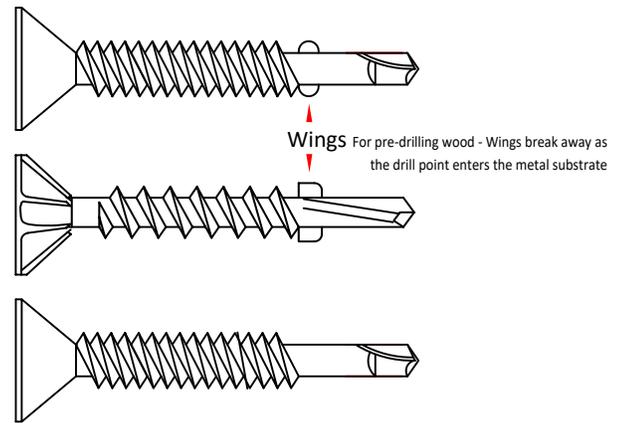
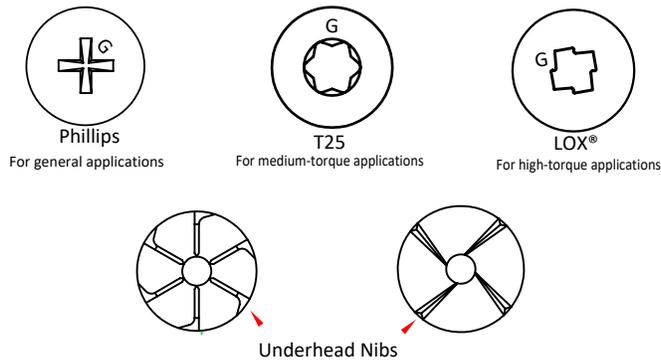


TABLE B

CORROSION RESISTANCE TESTING RESULTS			
Finish	Test	Standard/Protocol	Results (minimum)
(Z) Clear Zinc	Salt Spray	ASTM B117	12 hours, no red rust
(YZ) Yellow Zinc	Salt Spray	ASTM B117	24 hours, no red rust
(RG) GrabberGard®	Salt Spray	ASTM B117	1000 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*.

Grabber's approved mills keep tight control over all production standards and processes. Grabber's mills are ISO 9001 ensuring Grabber fasteners meet or exceed the highest industry standards.

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