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 - PPF - Self-Piercing Pan, Flat Pan and Pan Framing Head Fine Thread

TABLE A

Item Number	Screw Size (#)	Length	Head Style	Head Diameter (in.)	TPI	Point Size/Style	Coating	Maximum Drilling Capacity (in.)	Drive Type	Bulk/Collated Quantity	Special Features
23V	7	7/16-in	Pan Framing	0.305	20	Vector®	Phosphate	0.033	#2 Phillips	15,000	Vector® Point, Underhead Serrations
C23V	7	7/16-in	Pan Framing	0.305	20	Vector®	Phosphate	0.033	#2 Phillips	2,000	Vector® Point, Underhead Serrations, Collated
23VRG	7	7/16-in	Pan Framing	0.305	20	Vector®	GrabberGard®	0.033	#2 Phillips	15,000	Vector® Point, Underhead Serrations
23VZ	7	7/16-in	Pan Framing	0.305	20	Vector®	Clear Zinc	0.033	#2 Phillips	15,000	Vector® Point, Underhead Serrations
21Z	8	9/16-in	Pan	0.314	15	Streaker®	Clear Zinc	0.033	#2 Square	10,000	
FP101875SLYZ*	10	3/4-in	Flat Pan	0.364	18	Streaker®	Yellow Zinc	0.043	#2 LOX®	8,000	Underhead Serrations
CFP101875SLYZ*	10	3/4-in	Flat Pan	0.364	18	Streaker®	Yellow Zinc	0.043	#2 LOX®	1,000	Underhead Serrations, Collated
CFLP101875SLYZ*	10	3/4-in	Low Profile Flat Pan	0.364	18	Streaker®	Yellow Zinc	0.043	#2 LOX®	1,000	Underhead Serrations, Collated
FLP101875SLYZ*	10	3/4-in	Low Profile Flat Pan	0.364	18	Streaker®	Yellow Zinc	0.043	#2 LOX®	8,000	Underhead Serrations
CLFP101875SLRG*	10	3/4-in	Low Profile Flat Pan	0.364	18	Streaker®	Yellow Zinc	0.043	#2 LOX®	1,000	Underhead Serrations, Collated
FLP101875SLRG*	10	3/4-in	Low Profile Flat Pan	0.364	18	Streaker®	Yellow Zinc	0.043	#2 LOX®	8,000	Underhead Serrations

*NOTE: See TABLE C for Nominal Loads for item (C)FP101875SLYZ.

Grabber screws manufactured in America are available as SPECIAL-ORDER INVENTORY. CONTACT GRABBER FOR CURRENT PRICE AND AVAILABILITY. For identification purposes, an "A" will 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-piercing pan, flat pan and pan framing head fine thread screw used for light-gauge metal-to-metal framing applications. Vector® point designed for faster penetration into steel.

Directions: Use a standard screwgun with a depth sensitive nose piece. Suggested screwgun specification for optimal performance - Size #7 to #10, up to 4,000 RPM. The head is fully seated when the bearing surface 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: All GRABBER® screw products are manufactured in facilities that are ISO 9001 certified. PPF fasteners comply with ASTM C1513 requirements.

PPF - Self-Piercing Pan, Flat Pan and Pan Framing Head Fine Thread

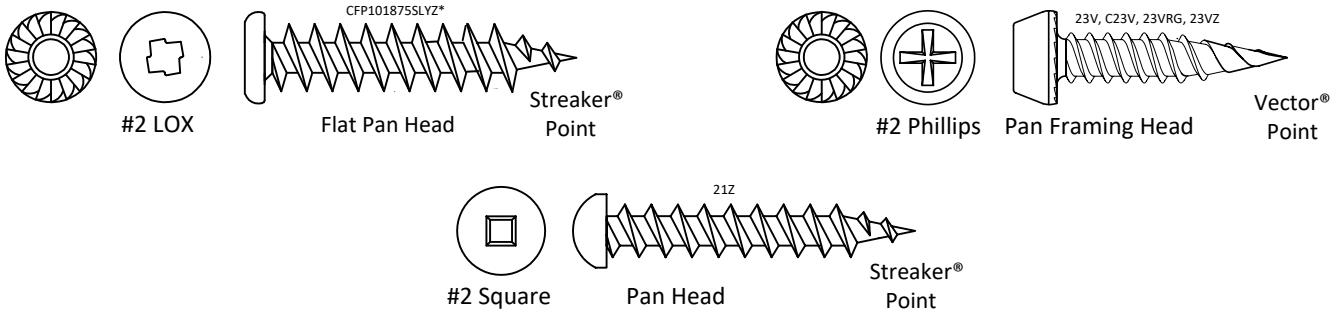

TABLE B

CORROSION RESISTANCE TESTING			
Finish	Test	Standard/Protocol	Results (minimum)
Phosphate	Salt Spray	ASTM B117	24 hours, no red rust
(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	1,000 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.

TABLE C - Nominal Loads for (C)FP101875SLYZ

Fastener Strength		Connection Strength - AISI S905 R_n Loads (lbf) - Steel Tensile Strength F_u = 45 ksi														
AISI S904 R_n Loads (lbf)		Pull Out					Pull Over					Lap Shear				
Tension	Shear	0.018"	0.027"	0.030"	0.033"	0.043"	0.018"	0.027"	0.030"	0.033"	0.043"	0.018"	0.027"	0.030"	0.033"	0.043"
1,836	1,920	164	268	344	364	546	652	1,170	1,609	1,518	1,983	324	557	784	744	794

[1]Shown as nominal (ultimate) loads.
[2]To calculate allowable loads, divide by the appropriate ASD safety factor Ω.
[3]To calculate LRFD values, multiply by the appropriate LRFD ϕ factor.
[4]For tension connections, the lower of the calculated allowable pull out, pull over and fastener tension strength must be used for design.
[5]For shear connections, the lower of the calculated allowable shear connection strength and fastener shear strength must be used for design.
[6]The calculated allowable pull-out capacity, pull-over capacity, and connection shear capacity of other member thicknesses can be determined by interpolation within the table.