

ICC-ES Evaluation Report

ESR-4839

Issued June 2024 This report also contains:

- CBC Supplement

Subject to renewal June 2025 - FBC Supplement

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DIVISION: 06 00 00 – WOOD, PLASTICS AND COMPOSITES

Section: 06 05 23 – Wood, Plastic, and

Composite Fastenings

REPORT HOLDER:
THE HILLMAN GROUP

EVALUATION SUBJECT: POWER-PRO® 316

STAINLESS STEEL
STRUCTURAL SCREWS



1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018 and 2015 International Building Code® (IBC)
- 2021, 2018 and 2015 International Residential Code® (IRC)

Property evaluated:

■ Structural

2.0 USES

The Hillman[™] Power-Pro[®] 316 Stainless Steel Structural Screws are used for wood-to-wood connections that are designed in accordance with the IBC. For structures regulated under the IRC, the screws may be used where an engineered design is submitted in accordance with IRC Section R301.1.3.

3.0 DESCRIPTION

3.1 Notation and Symbols:

D = Outside thread diameter

 D_H = Diameter of fastener head or integral washer

 D_{nom} = Fastener size designation D_r = Minor thread (root) diameter D_s = Unthreaded shank diameter

 $F_{yb,spec}$ = Minimum specified bending yield strength

L = Fastener length

L_{emb,l} = Minimum required embedded thread length in holding member, including tip, applicable to

tabulated lateral design values

L_{emb,w} = Minimum required embedded thread length in holding member, including tip, applicable to

tabulated withdrawal design values

 L_{thread} = Length of thread including the tip

 N_a = Allowable tension strength of the fastener for use in ASD

 N_u = Design tension strength of the fastener, for use in LRFD

 SG_{NDS} = Assigned specific gravity (See Section 3.2.)

 $t_{s,w}$ = Thickness of wood side member

W = Reference unit withdrawal design value for fasteners installed perpendicular to face of the

wood

 W_H = Reference head pull-through design value

Z = Reference lateral design value

 Z_{\parallel} = Reference lateral design value for fasteners loaded parallel to the wood grain

 Z_{\perp} = Reference lateral design value for fasteners loaded perpendicular to the wood grain

3.2 Power-Pro® 316 Stainless Steel Structural Screws:

The Power-Pro® 316 Stainless Steel Structural Screws are proprietary screws (differing from the requirements of ANSI/ASME B18.2.1). The screws are partially-threaded, dowel-type fasteners designed to be installed in wood without drilling a lead hole. The screws have a reamer knurl between the smooth shank of the screw and the screw threads and a Type 17 point. The screws are manufactured from Type 316 stainless steel. See Table 1 for screw dimensions and Figure 1 for depictions of the screws.

- **3.2.1 Structural Lag Screws:** The Power-Pro® Structural Lag Screws have a truss head with a star drive recess.
- 3.2.2 Lumber-Tite® Screws: The Power-Pro® Lumber-Tite® screws have a flat head with a star drive recess.
- **3.2.3 Timber-Tite® and Ledger-Tite® Screws**: The Power-Pro® Timber-Tite® and Ledger-Tite® screws have a hex washer head.
- **3.2.4 Heavy Duty TimberWood Flat Head Screws:** The Power-Pro[®] Heavy Duty TimberWood Flat Head Screws have a conical shaped head with a star drive recess.

3.3 Wood Members:

Wood members may be sawn lumber or structural glued laminated timber (glulam). Screws may also be used in the face of cross-laminated timber (CLT) panels. Use of the screws in engineered wood products (EWP) other than those addressed above is outside the scope of this report.

For purposes of connection design, sawn lumber, glulam, and CLT members must have SG_{NDS} as indicated in the tables in this report, and the moisture content must be less than or equal to 19 percent at the time of screw installation and while in service. SG_{NDS} for sawn lumber is the assigned specific gravity for the applicable grade mark, which must be determined in accordance with Table 12.3.3A of the ANSI/AWC National Design Specification for Wood Construction® (NDS) or the latest NDS Supplement. SG_{NDS} for glulam members is the Specific Gravity for Fastner Design addressed in Tables 5A through 5D of the NDS Supplement. When designing connections with screws installed into CLT panels, all of the laminations must have a minimum SG_{NDS} as indicated in the tables in this report.

For wood-to-wood connections, the tabulated side member thickness is an absolute value (not a minimum or maximum value). The thickness of the wood main member must be sufficient to ensure that the tip of the screw is fully embedded in the wood.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The design values in this report are intended to aid the designer in meeting the requirements of IBC Section 1604.2. For connections not completely described in this report, determination of the suitability of the Power-Pro® screws for the specific application is the responsibility of the designer and is outside the scope of this report. The designer is responsible for determining the available strengths for the connection, considering all applicable limit states, and for considering serviceability issues. The designer is responsible for determining the required spacing, edge distance and end distance for the screws, based on <u>Table 5</u> of this report and the material being connected.

4.1.1 Screw Strength: Allowable screw tension strengths (ASD), design screw strengths (LRFD) and minimum specified bending yield strengths for the screws are shown in <u>Table 1</u>.

- **4.1.2 Reference Withdrawal Design Values:** Reference withdrawal (*W*) design values in pounds per inch of thread penetration, for screws installed perpendicular to the face of the wood member as shown in Table 2.
- **4.1.3** Reference Pull-Through Design Values: Reference head pull-through values (W_H) are shown in Table 3.
- **4.1.4** Lateral Connections Designed in Accordance with the NDS: The reference lateral design strengths for connections of two or more wood members using the Power-Pro® 316 Stainless Steel Structural Screws referenced in Table 4 may be designed in accordance with the NDS, subject to the following conditions:
- 1. The applicable $F_{Vb,spec}$ from Table 1 must be used for design.
- 2. *Dr* must be used where '*D*' is referenced in tables 12.3.1A, 12.3.1B and 12.3.3 of the NDS. For partially-threaded screws, when determining if Footnote 1 to Table 12.3.1 applies, the nominal diameter shall be *Ds*.
- 3. Wood species combinations must have $SG_{NDS} \le 0.50$.
- 4. $t_{s,w}$ must be a minimum of $^{3}/_{4}$ inch (19.1 mm).
- 5. Screw penetration into the main member must be a minimum of 6 times the major thread diameter, D.
- 6. Dowel bearing length shall be determined in accordance with Section 12.3.5.3 of the NDS, using 2*D as the tapered tip length, *E*.
- 7. Spacing, edge and end distance must be in accordance with <u>Table 5</u>, and as needed to prevent splitting of the wood.
- **4.1.5 Two-member Lateral Wood-to-wood Connections Based on Testing:** Reference lateral design values based on testing are shown in <u>Table 4</u>.
- **4.1.6** Adjustments to Reference Design Values: Reference design values must be adjusted in accordance with the NDS provisions for dowel-type fasteners to determine the allowable strengths for use in ASD and the design strengths for use in LRFD.
- **4.1.7 Connections with Multiple Screws:** Connections made with multiple screws must be designed in accordance with Sections 11.1.2, 11.2.2, and 12.6 of the NDS.
- **4.1.8 Combined Loading:** Where the screws are subjected to combined lateral and withdrawal loads, connections must be designed in accordance with Section 12.4.1 of the NDS.
- **4.1.9 Capacity Requirements for Wood Members:** When designing a connection, the structural members must be checked for load-carrying capacity in accordance with Section 11.1.2 of the NDS, and local stresses within multiple-fastener connections must be checked against Appendix E of the NDS to ensure the capacity of the connection and fastener group.

4.2 Corrosion Resistance:

The Power-Pro® 316 Stainless Steel Structural Screws may be used in accordance with the code, without limitation.

4.3 Installation:

Power-Pro® 316 Stainless Steel Structural screws must be installed in accordance with the report holder's published installation instructions and this report. The screws must be installed perpendicular to the face of the wood member. Screws must be installed with the minimum spacing, end distances, and edge distances needed to prevent splitting of the wood or as noted in <u>Table 5</u>, whichever is more restrictive. The underside of the flat portion of the screw head must bear against the surface of the wood side member, except for the Heavy Duty TimberWood Flat Head Screw which must be installed with the top of the screw head flush with the wood surface. Screws must not be overdriven. Installation must be performed without predrilling. The screws must be installed by turning with a power driver, not by driving with a hammer.

5.0 CONDITIONS OF USE:

The Power-Pro® 316 Stainless Steel Structural Screws described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The screws must be installed in accordance with the report holder's published installation instructions and this report. In the case of a conflict between this report and the report holder's instructions, this report governs.

- 5.2 Design loads for the screws must not exceed the available strengths described in Section 4.1.
- **5.3** Calculations and details demonstrating compliance with this report must be submitted to the code official. The calculations and details must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- **5.4** Connection design for lateral loading applications using inclined fasteners is outside the scope of this report.
- **5.5** The screws have only been evaluated for use in dry service applications. Connection capacities for use in wet service conditions is outside the scope of this report.
- 5.6 The screws are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Dowel-Type Threaded Fasteners Used in Wood (AC233), dated June 2023.

7.0 IDENTIFICATION

- **7.1** The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-4839) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, the packaging for the screws is labeled with the brand name (Power-Pro®), the screw type (such as Lumber-Tite®), and the screw size and length. Each screw head is marked with "POWERPRO" (except for Timber-Tite® and Truss-Tite®) screws and a mark designating the screw length, as shown in Figure 1.
- **7.3** The report holder's contact information is the following:

THE HILLMAN GROUP
1280 KEMPER MEADOW DRIVE
FOREST PARK, OHIO 45240
(800) 800-4900
www.hillmangroup.com

TABLE 1—HILLMAN™ SCREW DIMENSIONS AND STEEL STRENGTHS

D (inch)	L (inches)	$oldsymbol{\mathcal{L}_{thread}}$	D _H ³ (inch), (DRIVE SIZE /	D _s (inch)	D _r (inch)	D (inch)	F _{yb,spec} (psi)	N _a (lbf)	N _u (lbf)
D _{nom} (IIICII)	L (mones)	(inches)	HEX SIZE)	D _s (mon)	D _f (mon)	2 (mon)	ya,spec (PSI)	7 4 a (101)	Au (IDI)
Structural Lag Screws									
	11/2	1.00		<u>_</u>				660	990
	2	1.00			0.155	0.235	105,000		
	2 ¹ / ₂	1.58		0.174					
1/4	3	1.80	0.540						
74	31/2	1.96	(T25)						
	4	2.38							
	5	2.38							
	6	2.38							
	3	2.10		0.204	0.181	0.281	105,000	830	1250
	3 ¹ / ₂	2.20							
	4	2.60	0.571						
⁵ / ₁₆	5	3.50	(T30)						
	6	4.00	, ,						
	8	5.50							
	10	7.00							
	6	4.20	-	0.221	0.191	0.313	105,000	935	1400
³ / ₈	8	5.20	0.700						
,,,	10	7.20	(T40)						
	12	9.20							
	· · · · · · · · · · · · · · · · · · ·		T	Lumber-Tite [®] \$	Screws		1		I
	2 ⁷ / ₈				0.155	0.235	105,000	660	
	41/2								990
	6								
1/4	7	2.00	0.532 (T25)	0.174					
	8		(T25)						
	9								
	10 12	3.00							
	12	3.00		Timber-Tite [®] S	<u> </u>				
	21/2	1 25		i iiiiber-i ite° S	crews				
	4	1.25	-						
1/4	6		0.475	0.174	0.155	0.235	105,000	660	990
/4	8	2.00	(0.31" across flats)	0.174	0.100				
	10								
Ledger-Tite [®] Screws									
	3 ⁵ / ₈	2.00	0.610	_					
⁵ / ₁₆	5	3.00	(0.31" across flats)	0.204	0.181	0.281	105,000	890	1340
Heavy Duty TimberWood Flat Head Screws									
³ / ₈	3	2		0.294	0.248	0.402	105,000	1680	2525
	4]						
	5		0.650						
	6	3	(T50)						
	8								
	10								

For **SI:** 1 inch = 25.4 mm, 1 psi = 6.89 kPa, 1 lbf = 4.45 N.

 $^{^{1}\}mbox{Overall}$ length is measured from the underside of the screw head to the tip. $^{2}\mbox{Length}$ of thread includes tip.

TABLE 2—REFERENCE WITHDRAWAL DESIGN VALUES (W) FOR INSTALLATION INTO THE FACE OF THE WOOD MEMBER^{1,2,3}

D (inch)	(inches)	4/inah)	W FOR SELECTED SG _{NDS} VALUES (lbf/in)							
D _{nom} (inch)	L (inches)	L _{emb,w} ⁴ (inch)	$0.42 \le SG_{NDS} < 0.50$	SG _{NDS} ≥ 0.50						
	Structural Lag Screws									
1/4	$1^{1}/_{2}$, 2, $2^{1}/_{2}$, 3, $3^{1}/_{2}$, 4, 5, 6	1.00	110	140						
74	4, 5, 6	2.38	130	150						
⁵ / ₁₆	3, 3 ¹ / ₂ , 4, 5, 6, 8, 10	2.10	150	170						
716	10	7.00	80	80						
³ / ₈	6, 8, 10, 12	4.20	125	130						
/8	12	9.20	70	70						
	Lumber-Tite [®] Screws									
1/4	2 ⁷ / ₈ , 4 ¹ / ₂ , 6, 7, 8, 9, 10, 12	2.00	110	140						
Timber-Tite [®] Screws										
1/4	2 ¹ / ₂ , 4, 6, 8, 10	1.25	110	140						
Ledger-Tite [®] Screws										
⁵ / ₁₆	3 ⁵ / ₈ , 5	2.00	150	170						
	Heavy Duty TimberWood Flat Head Screws									
³ / ₈	3, 4, 5, 6, 8, 10	2.00	160	210						
78	4, 5, 6, 8, 10	3.00	165	230						

For **SI:** 1 inch = 25.4 mm, 1 lbf/in = 175N/m; 1 lbf = 4.45 N.

TABLE 3—REFERENCE PULL THROUGH DESIGN VALUES $(W_H)^{1,2}$

		W _H FOR SELECTED SG _{NDS} VALUES (lbf)					
D _{nom} (inch)	t _{s,w} (inch)	$0.42 \le SG_{NDS} < 0.50$	$0.50 \le SG_{NDS} < 0.55$	<i>SG_{NDS}</i> ≥ 0.55			
		Structural Lag Screws	5				
1/4		175	195	n/a			
⁵ / ₁₆	3/4	230	240	460			
3/8		240 290		305			
		Lumber-Tite [®] Screws					
1/4	3/4	165	185	240			
		Timber-Tite [®] Screws					
1/4	3/4	165	185	240			
		Ledger-Tite [®] Screws					
⁵ / ₁₆	3/4	230	240	460			
	Н	eavy Duty TimberWood Flat He	ead Screws				
3/8	11/2	280	n/a	n/a			
/8	2	n/a	400	n/a			

For **SI**: 1 inch = 25.4 mm, 1 lbf = 4.45 N.

¹ Tabulated values must be multiplied by all adjustment factors included in the NDS for dowel-type fasteners to determine allowable loads for use with ASD and/or design loads for use with LRFD.

Tabulated values are applicable to screws installed perpendicular to the faces of the wood members.

³ The tabulated reference withdrawal design value is in pounds-force per inch of thread embedment into the main member.

⁴ L_{emb,w} is the minimum required portion of the screw held in the main member including the screw tip needed to achieve the tabulated design values.

¹ Tabulated values must be multiplied by all adjustment factors included in the NDS for dowel-type fasteners to determine allowable loads for use with ASD and/or design loads for use with LRFD.

² Tabulated values are applicable to screws installed perpendicular to the faces of the wood members.

TABLE 4—REFERENCE LATERAL DESIGN VALUES (Z) FOR TWO MEMBER WOOD-TO-WOOD CONNECTIONS 1.2.3.4

		t _{s,w} (inch)	L _{emb,I} (inches)	Z(lbf) FOR SELECTED SG _{NDS} VALUES:				
D _{nom} (inch)	/ (inches)			$0.42 \le SG_{NDS} < 0.50$		SG _{NDS} ≥ 0.50		
	L (inches)			Parallel to Grain, Z _∥	Perp. to Grain, Z₁	Parallel to Grain, <i>Z</i> _∥	Perp. to Grain, Z⊥	
Structural Lag Screws								
1/4	21/2, 3, 31/2, 4, 5, 6	3/4	13/4	180	185	290	295	
⁵ / ₁₆	3 ¹ / ₂ , 4, 5, 6, 8, 10	3/4	23/4	185	220	320	375	
3/8	8, 10, 12	31/2	41/2	585	615	655	650	
Lumber-Tite [®] Screws								
1/4	2 ⁷ / ₈ , 4 ¹ / ₂ , 6, 7, 8, 9, 10, 12	3/4	21/8	195	195	240	260	
			Timber-	Tite [®] Screws				
1/4	21/2	3/4	13/4	145	150	230	235	
1/4	4, 6, 8, 10	3/4	31/4	180	185	290	295	
Ledger-Tite [®] Screws								
⁵ / ₁₆	3 ⁵ / ₈ , 5	3/4	27/8	200	200	235	260	
Heavy Duty TimberWood Flat Head Screws								
3/8	4, 5, 6, 8, 10	1 ¹ / ₂	21/2	340	315	n/a	n/a	

For SI: 1 inch = 25.4 mm, 1 lbf = 4.45 N.

TABLE 5—CONNECTION GEOMETRY REQUIREMENTS^{1,2,3}

		REQUIRED DIMENSION				
		mberWood Flat Screws	All other Power-Pro® screws			
	SG < 0.50	SG ≥ 0.50	SG < 0.50	SG ≥ 0.50		
	Loading toward end, aend,1	15D	20D	15D	20D	
End distance (see <u>Figure 2</u>)	Loading perpendicular to grain or away from end, a _{end,2}	10D	15D	10D	15D	
,	Axial loading, <i>a_{end,2}</i> (fastener withdrawal or pull-through)	10D	10D	10D	10D	
	Loading toward edge, a _{edge,1}	10D	12D	10D	12D	
Edge distance (see <u>Figure 2</u>)	Loading parallel to grain or away from edge, a _{edge,2}	5D	7D	5D	7D	
	Axial Loading, a _{edge,2}	4D	4D	4D	4D	
Spacing between	Loading parallel to grain, a_1	15D	15D	15D	15D	
fasteners, parallel to grain	Loading perpendicular to grain, a_1	10D	10D	10D	10D	
(see Figure 3)	Axial loading, a₁	7D	7D	7D	7D	
Spacing between	Loading parallel to grain, a ₂	5D	7D	5D	7D	
fasteners, perpendicular to grain	Loading perpendicular to grain, a₂	5D	7D	5D	7D	
(see <u>Figure 3</u>)	Axial loading, a₂	5D	5D	4D	4D	

¹End distances, edge distances and fastener spacing must be sufficient to prevent splitting of the wood, or as required by this table, whichever is the more restrictive. ²Wood member stresses must be checked in accordance with Section 11.1.2 and Appendix E of the NDS, and end distances, edge distances and fastener spacing may need to be increased accordingly.

¹ Tabulated values must be multiplied by all adjustment factors included in the NDS for dowel-type fasteners to determine allowable loads for use with ASD and/or design loads for use with LRFD.

Tabulated values are applicable to screws installed perpendicular to the faces of the wood members.

³ The wood main member thickness must be equal to or greater than the screw length less the thickness of the wood side member. ⁴ The tabulated lateral design values are based on both wood members having the same specific gravity.

³D refers to the outside thread diameter.

⁴For CLT products, parallel and perpendicular-to-grain descriptions apply to the grain orientation at the shear plane for lateral loading and to the face grain orientation for withdrawal loading.

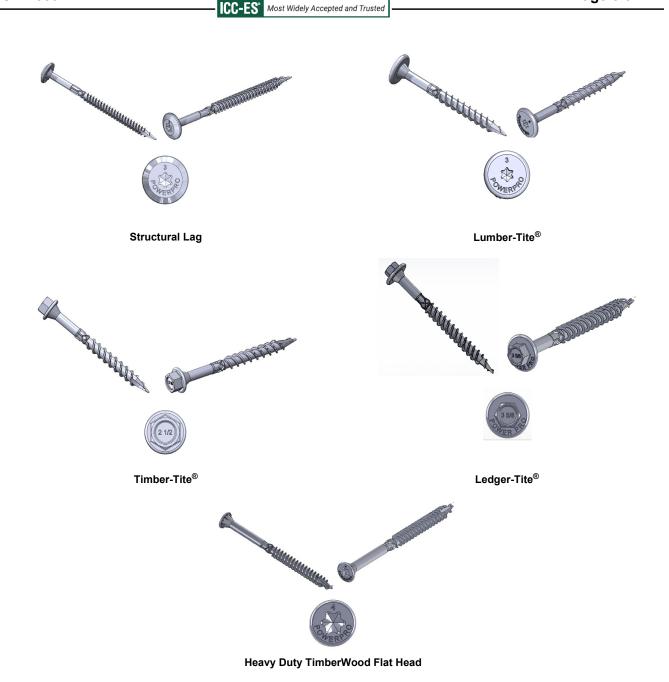
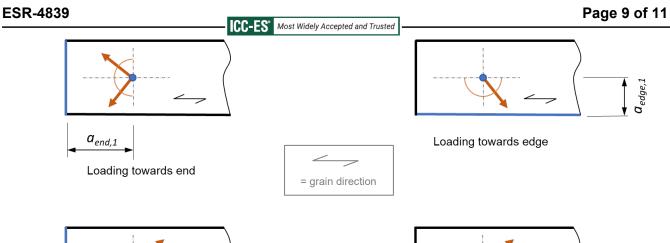
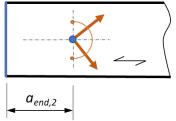


FIGURE 1 – POWER-PRO® 316 STAINLESS STEEL STRUCTURAL SCREWS





- · Loading perpendicular to grain
- Loading away from end
- Axial Loading

End Distance Definitions

Edge Distance Definitions

Loading parallel to grain Loading away from edge

Axial Loading

FIGURE 2—END AND EDGE DISTANCE DEFINITIONS FOR SCREWS INSTALLED PERPENDICULAR TO GRAIN

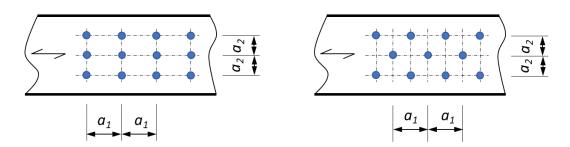


FIGURE 3—SPACING DEFINITIONS FOR SCREWS INSTALLED PERPENDICULAR TO GRAIN



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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES Section: 06 05 23—Wood, Plastic, and Composite Fastenings

REPORT HOLDER:

THE HILLMAN GROUP

EVALUATION SUBJECT:

POWER-PRO® 316 STAINLESS STEEL STRUCTURAL SCREWS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Power-Pro® 316 Stainless Steel Structural Screws, described in ICC-ES evaluation report ESR-4839, have also been evaluated for compliance with the code(s) noted below.

Applicable code edition:

■ 2022 California Building Code (CBC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2022 California Residential Code (CRC)

2.0 CONCLUSIONS

Power-Pro® 316 Stainless Steel Structural Screws, described in Sections 2.0 through 7.0 of the evaluation report ESR-4839, comply with CBC Chapter 23, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of Chapters 16, 17 and 23, as applicable.

- 2.1.1 OSHPD: The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.
- 2.1.2 DSA: The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Power-Pro® 316 Stainless Steel Structural Screws, described in Sections 2.0 through 7.0 of the evaluation report ESR-4839, comply with the CRC, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 3, as applicable.

This supplement expires concurrently with the evaluation report, issued June 2024.





ICC-ES Evaluation Report

ESR-4839 FBC Supplement

Issued June 2024

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES Section: 06 05 23—Wood, Plastic, and Composite Fastenings

REPORT HOLDER:

THE HILLMAN GROUP

EVALUATION SUBJECT:

POWER-PRO® 316 STAINLESS STEEL STRUCTURAL SCREWS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Power-Pro® 316 Stainless Steel Structural Screws, subject of ICC-ES evaluation report ESR-4839, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 Florida Building Code—Building
- 2023 Florida Building Code—Residential

2.0 CONCLUSIONS

The Power-Pro® 316 Stainless Steel Structural Screws, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4839, comply with the 2023 Florida Building Code—Building or the Florida Building Code—Residential. The design requirements must be determined in accordance with the Florida Building Code—Building or the Florida Building Code—Residential, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-4839 for the 2021 International Building Code® meet the requirements of the Florida Building Code—Building or the Florida Building Code—Residential, as applicable, with the following conditions:

Use of the Power-Pro[®] 316 Stainless Steel Structural Screws for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, issued June 2024.

