



ICC-ES Evaluation Report

ESR-4357

Reissued December 2022

This report is subject to renewal December 2023.

DIVISION: 03 00 00—CONCRETE
Section: 03 16 00—Concrete Anchors

DIVISION: 04 00 00—MASONRY
Section: 04 05 19.16—Masonry Anchors

DIVISION: 05 00 00—METALS
Section: 05 05 19—Post-Installed Concrete Anchors

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

REPORT HOLDER:

THE HILLMAN GROUP, INC.

ADDITIONAL LISTEES:

ALL POINTS SCREW, BOLT & SPECIALTY CO.

THE HILLMAN GROUP OF CANADA

EVALUATION SUBJECT:

POWER-PRO CONCRETE SCREW ANCHORS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015 and 2012 *International Building Code*® (IBC)
- 2018, 2015 and 2012 *International Residential Code*® (IRC)

Property evaluated:

Corrosion resistance

2.0 USES

The Power-Pro concrete screw anchors are fasteners with a corrosion inhibiting coating system used to connect wood members to other substrate materials, where the fasteners are required to exhibit resistance to environmental or chemically treated wood corrosion. The corrosion inhibiting coating system is considered an alternative to hot-dip zinc-galvanized fasteners complying to ASTM A153, Class D.

3.0 DESCRIPTION

The structural properties for the Power-Pro concrete screw anchors are evaluated in [ESR-4339](#) and [ESR-4340](#). This report evaluates the use of a zinc plating applied to the screw anchors. The Power-Pro concrete screw anchors have sacrificial zinc with an organic topcoat in white, black, blue, bronze and silver colors. The Power-Pro concrete screw anchors are available in shank diameters of 3/16-inch, 1/4-inch and 5/16-inch (4.8, 6.4 and 7.9 mm) with various lengths. Product names for the report holder and the additional listees are presented in the following table:

COMPANY NAME	PRODUCT NAME
The Hillman Group, Inc.	Power Pro® Concrete Screw Anchor
The Hillman Group, Inc.	Hillman Solid Set™
All Points Screw, Bolt & Specialty Co.	All Points Solid Set™
The Hillman Group of Canada	Pro-Fast Concrete Screw Anchor

4.0 DESIGN AND INSTALLATION

Structural applications for Power-Pro concrete screw anchors are described in [ESR-4339](#) and [ESR-4340](#). The Power-Pro concrete screw anchors are used in Exposure Conditions 1 through 4 with typical applications and recognition limitations as shown in Table 1 of this report. The Power-Pro concrete screw anchors are used in wood treated with water-borne alkaline copper quaternary (ACQ) preservatives with a maximum retention of 0.4 pcf (6.4 kg/m³) and preservatives with lesser corrosion effects.

5.0 CONDITIONS OF USE

The Power-Pro concrete screw anchors as 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 fasteners must be installed in accordance with this evaluation report and [ESR-4339](#) or [ESR-4340](#), as applicable; the manufacturer's published installation

instructions; and the applicable code. The instructions within this report govern if there are any conflicts between the manufacturer’s published installation instructions and this report.

- 5.2 The structural performance of the fasteners is limited to that as documented in, [ESR-4339](#) and [ESR-4340](#).
- 5.3 Use of the screws in contact with fire-retardant-treated wood is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Corrosion-resistant Fasteners and Evaluation of Corrosion Effect of Wood Treatment Chemicals (AC257), dated October 2009 (editorially revised March 2018).

7.0 IDENTIFICATION

- 7.1 The screw anchors are identified in cartons bearing labels that provide the manufacturer name and the name of the product (Power-Pro concrete screw anchor); screw description (type, length, and shank diameter); the company name as set forth in Section 3.0 of this report, and the evaluation report number (ESR-4357). The cartons are also identified as described in [ESR-4339](#) and [ESR-4340](#).

- 7.2 The report holder’s contact information is the following:

THE HILLMAN GROUP INC.
10590 HAMILTON AVENUE
CINCINNATI, OHIO 45231
info@hillmangroup.com

- 7.3 The additional listees’ contact information is the following:

ALL POINTS SCREW, BOLT & SPECIALTY CO.
1590 N.W. 27TH AVENUE, #9
POMPANO BEACH, FLORIDA 33069
info@allpointsscrew.com

THE HILLMAN GROUP OF CANADA
900 PASSMORE AVENUE
TORONTO, ONTARIO M1X 0C6
CANADA
farhad.lajewardi@hillmangroup.com

TABLE 1—EXPOSURE CONDITIONS FOR FASTENERS WITH INTENDED USE AND LIMITATIONS OF RECOGNITION

EXPOSURE CONDITION	TYPICAL APPLICATIONS	RECOGNITION LIMITATIONS
Corrosion Resistance of Fasteners		
1	Treated wood in dry use applications	Limited to use where equilibrium moisture content of the chemically treated wood meets the dry service conditions as described in the NDS.
2	Aboveground with coastal salt exposure	Limited to clean untreated wood and materials without known corrosion effects greater than that of clean untreated wood.
3	General construction	Limited to freshwater and chemically treated wood exposure, i.e., no saltwater exposure.
4	Coastal construction	No limitations on use with respect to moisture and chemically treated wood except that chemical wood treatment must have the same or lesser corrosion effects as qualification conditions.

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REPORT HOLDER:

THE HILLMAN GROUP, INC.

EVALUATION SUBJECT:

POWER-PRO CONCRETE SCREW ANCHORS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Power-Pro concrete screw anchors, described in ICC-ES evaluation report ESR-4357, have also been evaluated for compliance with the code(s) noted below.

Applicable code editions:

- 2019 *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.

- 2019 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Power-Pro concrete screw anchors, described in Sections 2.0 through 7.0 of the evaluation report ESR-4357, comply with CBC Chapter 23, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 23, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Power-Pro concrete screw anchors, described in Sections 2.0 through 7.0 of the evaluation report ESR-4357, comply with CRC Chapter 3, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 3, as applicable.

This supplement expires concurrently with the evaluation report, reissued December 2022.

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The purpose of this evaluation report supplement is to indicate that Power-Pro concrete screw anchors, described in ICC-ES evaluation report ESR-4357, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 and 2017 *Florida Building Code—Building*
- 2020 and 2017 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Power-Pro concrete screw anchors, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4357, comply with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design requirements are 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-4357 for the 2018 and 2015 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the Power-Pro concrete screw anchors has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* with the following condition:

- a) Design and installation must meet the requirements of Section 2324.2 of the *Florida Building Code—Building*.

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).

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