ICC-ES Evaluation Report

ESR-3213

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Subject to renewal September 2025

This report also contains:

- **FL Supplement**

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DIVISION: 03 00 00 - CONCRETE **Section: 03 16 00—Concrete Anchors** **DIVISION: 04 00 00 - MASONARY** **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:** **DEWALT** **ADDITIONAL LISTEE:** **ALL POINTS SCREW, BOLT & SPECIALTY CO.** **THE HILLMAN GROUP**	**EVALUATION SUBJECT:** **ULTRACON®+ SCREW ANCHORS AND WOODWORM™ SCREWS IN CHEMICALLY TREATED WOOD (DEWALT)**	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, and 2015 *International Building Code®* (IBC)
- 2024, 2021, 2018, and 2015 *International Residential Code* (IRC)

Property evaluated:

- Corrosion resistance

2.0 USES

The UltraCon+ screw anchors and Woodworm screws with a proprietary Stalgard® coating are used for connections where one or more of the members is wood, where the fastener is required to exhibit resistance to environmental or chemically-treated-wood corrosion. The Stalgard® coating is considered an alternative to hot-dip zinc-galvanized fasteners complying with ASTM A153, Class D.

3.0 DESCRIPTION

Structural properties of UltraCon+ coated screw anchors are addressed in ESR-3196, ESR-3068 and ESR-3042. Structural properties of Woodworm coated screws are addressed in ESR-3164. This evaluation

report addresses the use of a proprietary Stalgard® coating applied to these screws. The UltraCon+ screw anchors have a uniform blue, white, silver or bronze coating and are available in shank diameters of $^3/_{16}$ and $^1/_4$ inch (4.8 and 6.4 mm) and lengths ranging from $1^3/_4$ to 6 inches (44 to 152 mm). The Woodworm screws are available with the fastener designations of Woodworm Ledger Screw, Woodworm Truss Screw, Woodworm Waferhead (Lumber) Screw and Woodworm Timber Screw. The Woodworm screws have a bronze, black or red Stalgard® coating and have lengths ranging from $2^1/_2$ to 12 inches (64 to 305 mm) and shank diameters of $^3/_{16}$ and $^1/_4$ inch (4.8 and 6.4 mm). Product names for the report holder and the additional listees are presented in Table A of this report.

4.0 DESIGN AND INSTALLATION

Structural applications for UltraCon+ screw anchors are described in ESR-3196, ESR-3068 and ESR-3042. Structural applications for Woodworm screws are described in ESR-3164. The UltraCon+ screw anchors and Woodworm screws are used in Exposure Conditions 1 through 4 with typical applications and limitations as shown in Table 1 of this report. The UltraCon+ screw anchors and Woodworm screws may be used in wood treated with water-borne alkaline copper quaternary (ACQ) preservatives with a maximum retention of 0.4 pcf (6.4 kg/m^3) and preservatives with lesser corrosion effects. The UltraCon+ screw anchors and Woodworm screws may be used in wood treated with water-borne alkaline copper azole (CA-B) preservatives with a maximum retention of 0.3 pcf (4.9 kg/m^3) and preservatives with lesser corrosion effects. Preservatives with lesser corrosion effects include but are not limited to wood treated with SBX/DOT and zinc borate preservatives.

5.0 CONDITIONS OF USE

The UltraCon+ screw anchors and Woodworm screws 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 UltraCon+ screw anchors and Woodworm screws must be installed in accordance with this evaluation report and ESR-3196, ESR-3068, ESR-3042, or ESR-3164, 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 screw anchors and screws may be used in contact with preservative-treated wood in accordance with Section 4.0 and Table 1 of this report.

5.3 The screw anchors may be used in contact with fire-retardant-treated wood in dry, interior locations only, in accordance with 2024 and 2021 IBC Section 2304.10.6.4, (2018 IBC and 2015 IBC Section 2304.10.5.4) and the report holder's recommendations.

5.4 The structural performance of the fasteners is limited to that as documented in ESR-3196, ESR-3068, ESR-3042 and ESR-3164.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Corrosion-resistant Fasteners and Evaluation of Corrosion Effects of Wood Treatments (AC257), dated June 2023(editorially revisedMay 2024).

7.0 IDENTIFICATION

7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-3213) along with the name, registered trademark, or registered logo of the report holder and/or listee must be included in the product label.

7.2 In addition, the screw anchors and screws are packaged in cartons bearing labels that provide the manufacturer name and the name of the product (UltraCon+ screw anchors or Woodworm screws); screw description (type, length, and shank diameter); and the company name as set forth in Table A of this report. The cartons are also identified as described in ESR-3196, ESR-3068, ESR-3042 and ESR-3164.

7.3 The report holder's contact information is the following:

DEWALT
701 EAST JOPPA ROAD
TOWSON, MARYLAND 21286
(800) 524-3244
www.DEWALT.com
anchors@DEWALT.com

7.4 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
10590 HAMILTON AVENUE
CINCINNATI, OHIO 45231
info@hillmangroup.com

TABLE A—PRODUCT NAMES BY COMPANY

COMPANY NAME	PRODUCT NAME	COATING NAME
DEWALT	UltraCon®+ Screw Anchors or Woodworm Screws	Stalgard®
All Points Screw, Bolt & Specialty Co.	AP Tapper+ Screw Anchors	Perma-Seal®
The Hillman Group	Hillman Tapper+ Screw Anchors or Tite Screws	Perma-Seal®

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

EXPOSURE CONDITION	TYPICAL APPLICATIONS	LIMITATIONS[1]
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[2]	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[2]	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.

[1]Treated wood refers to the specific wood species, treatment and retention level described in section 4.0
[2]Construction on land within 3,000 feet (915 m) of the shoreline of a body of saltwater.

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Section: 06 05 23—Wood, Plastic and Composite Fastenings

REPORT HOLDER:

DEWALT

EVALUATION SUBJECT:

ULTRACON®+ SCREW ANCHORS AND WOODWORM™ SCREWS IN CHEMICALLY TREATED WOOD (DEWALT)

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the UltraCon+ screw anchors and Woodworm screws with a proprietary Stalgard® coating, described in ICC-ES evaluation report ESR-3213, 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 UltraCon+ screw anchors and Woodworm screws with a proprietary Stalgard® coating, described in Sections 2.0 through 7.0 of the evaluation report ESR-3213, comply with the *Florida Building Code—Building* and 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-3213 for the 2021 *International Building Code®* meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential,* as applicable.

Use of the UltraCon+ screw anchors and Woodworm screws with a proprietary Stalgard® coating 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*.

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, reissued September 2024 and revised October 2024.