

# **ICC-ES Evaluation Report**

# ESR-2966

Reissued December 2023	This report also contains:
Revised April 2024	- LABC Supplement
Subject to renewal December 2024	- FBC Supplement

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DIVISION: 04 00 00 —	REPORT HOLDER:	EVALUATION SUBJECT:	
MASONRY.	DEWALT	POWER-STUD®+ SD1	
Section: 04 05 19.16 —	ADDITIONAL LISTEES:	EXPANSION ANCHORS	
Masonry Anchors	THE HILLMAN GROUP	IN MASONRY (DEWALT)	

# **1.0 EVALUATION SCOPE**

# Compliance with the following codes:

- 2021, 2018, 2015, and 2012 *International Building Code*® (IBC)
- 2021, 2018, 2015, and 2012 International Residential Code<sup>®</sup> (IRC)

For evaluation for compliance with codes adopted by the <u>Los Angeles Department of Building and Safety</u> (<u>LADBS</u>), see <u>ESR-2966 LABC and LARC Supplement</u>.

# **Property evaluated:**

Structural

# **2.0 USES**

The Power-Stud+ SD1 expansion anchors are used for anchoring building components and structural connections in predrilled holes to grout-filled uncracked concrete masonry units, to resist static, wind and seismic tension and shear loads. The anchors are alternatives to the cast-in-place anchors described in Section 8.1.3 (2016 or 2013 edition) or Section 2.1.4 (2011 edition) of TMS 402/ACI530/ASCE 5, as applicable, as referenced in Section 2107.1 of the IBC. The anchors may also be used where an engineered design is submitted in accordance with Section R301.1.3 of the IRC.

# **3.0 DESCRIPTION**

## 3.1 Power-Stud+ SD1:

Power-Stud+ SD1 anchors are torque-controlled, mechanical expansion anchors comprised of an anchor body, expansion wedge (clip), washer and hex nut. Product names for the report holder and for the additional listees are presented in the following table.

COMPANY NAME	PRODUCT NAME
DEWALT	Power-Stud+ SD1
The Hillman Group	Hillman Power-Stud+ SD1
	Power Pro SD1 Wedge Anchor



Available diameters recognized for use in masonry are  ${}^{3}/{}_{8}$  inch,  ${}^{1}/{}_{2}$  inch, and  ${}^{5}/{}_{8}$  inch (9.5 mm, 12.7 mm and 15.9 mm). The anchor body and expansion clip are manufactured from medium carbon steel complying with requirements set forth in the approved quality documentation and have minimum 0.0002-inch-thick (5 µm) zinc plating in accordance with ASTM B633, SC1, Type III. The washers comply with ASTM F844. The hex nuts comply with ASTM A563, Grade A. The Power-Stud+ SD1 expansion anchor is illustrated in Figure 2.

The anchor body is comprised of a high-strength threaded rod at one end and a tapered mandrel at the other end. The tapered mandrel is enclosed by a three-section expansion clip that freely moves around the mandrel. The expansion clip movement is restrained by the mandrel taper and by a collar. The anchors are installed in a predrilled hole with a hammer. When torque is applied to the nut of the installed anchor on the threaded end of the anchor body, the mandrel at the other end of the anchor is drawn into the expansion clip, forcing it outward into the sides of the predrilled hole in the base material.

# 3.2 Grout-filled Concrete Masonry:

The compressive strength of masonry,  $f_m$ , at 28 days must be a minimum of 1,500 psi (10.3 MPa). Grout-filled masonry must be constructed from the following materials:

**3.2.1 Concrete Masonry Units:** Grout-filled concrete masonry walls must be constructed from minimum Grade N, Type II, lightweight, medium-weight or normal-weight concrete masonry units (CMUs) conforming to ASTM C90 (IBC). The minimum allowable nominal size of the CMU must be 6 inches wide by 8 inches high by 16 inches long (i.e. 6x8x16).

**3.2.2 Grout:** The masonry units must be fully grouted with grout complying with Section 2103.3 of the 2021, 2018 and 2015 IBC; Section 2103.13 of the 2012 IBC; or Section R606.2.12 of the 2021 and 2018 IRC, Section R606.2.11 of the 2015 IRC; Section R609.1.1 of the 2012 IRC, as applicable, and having a minimum compressive strength as indicated in these code sections at 28 days.

**3.2.3 Mortar:** Mortar must be Type N, S or M, prepared in accordance with Section 2103 of the IBC; or Section R606.2.8 of the 2021 and 2018 IRC, Section R606.2.7 of the 2015 IRC; Section R607.1 of the 2012 IRC, as applicable.

# 4.0 DESIGN AND INSTALLATION

# 4.1 Allowable Stress Design (ASD):

The allowable load values for anchors described in this report are based on allowable stress design under the IBC. Allowable tension and shear loads for installation in uncracked grout-filled concrete masonry are noted in Table 3.

Allowable loads are given in <u>Table 3</u> for anchors installed into grouted masonry wall faces at a critical spacing distance,  $s_{cr}$ , between anchors of 16 times the anchor diameter. The spacing distance between two anchors may be reduced to a minimum spacing distance,  $s_{min}$ , of 8 times the anchor diameter provided the allowable tension loads are multiplied by a reduction factor of 0.80 and allowable shear loads are multiplied by a reduction for calculation of allowable loads may be used for intermediate anchor spacing distances.

The allowable loads for anchors installed in grout-filled concrete masonry subjected to combined tension and shear forces must be determined by the following equation:

$$\left(\frac{P_{s}}{P_{t}}\right)^{\frac{5}{3}} + \left(\frac{V_{s}}{V_{t}}\right)^{\frac{5}{3}} \le 1$$
 (Eq-1)

where:

 $P_s$  = Applied service tension load.

 $P_t$  = Allowable service tension load.

 $V_s$  = Applied service shear load.

 $V_t$  = Allowable service shear load.

## 4.2 Installation:

The Power-Stud+ SD1 expansion anchors must be installed in accordance with the manufacturer's published installation instructions and this report. Anchor locations must comply with this report and the plans and specifications approved by the code official. Installation parameters are provided in <u>Table 1</u> and <u>Figure 3</u>.

Anchors must be installed in holes drilled into the concrete using carbide-tipped masonry drill bits complying with ANSI B212.15-1994. The nominal drill bit diameter must be equal to that of the anchor. The dust and debris must be removed from the predrilled hole using a hand pump, compressed air or vacuum to remove loose particles left from drilling. The anchor must be hammered into the predrilled hole until the proper nominal embedment depth is achieved. The nut must be tightened against the washer until the torque values specified in Table 1 are achieved.

# 4.3 Special Inspection:

Special inspection under the IBC and IRC must be provided in accordance with Sections 1704 and 1705 of the IBC. The special inspector must make periodic inspections during anchor installation to verify anchor type, anchor dimensions, drill bit size, masonry type, masonry thickness, mortar type, anchor location, anchor embedment and adherence to the manufacturer's printed installation instructions.

# **5.0 CONDITIONS OF USE**

The Power-Stud+ SD1 expansion anchors 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 anchors must be installed in accordance with the manufacturer's published installation instructions and this report. In case of conflict, this report governs.
- 5.2 Anchor sizes, dimensions, and minimum embedment depths are as set forth in this report.
- **5.3** Prior to installation, 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** Design of anchors installed in grout-filled uncracked concrete masonry to resist static, wind and seismic load applications must be in accordance with Section 4.1 of this report.
- 5.5 The grout and mortar shall have attained its minimum design strength prior to the installation of the anchors.
- **5.6** When using the basic load combinations in accordance with 2021 IBC Section 1605.1 or 2018, 2015 and 2012 IBC Section 1605.3.1, allowable loads are not permitted to be increased for wind or earthquake loading. When using the alternative basic load combinations for the 2021, 2018, 2015 and 2012 IBC, the allowable loads or load combinations may not be adjusted.
- **5.7** Since an ICC-ES acceptance criteria for evaluating data to determine the performance of expansion anchors subjected to fatigue and shock loading is unavailable at this time, the use of these anchors under these conditions is beyond the scope of this report.
- **5.8** Where not otherwise prohibited by the code, anchors are permitted for installation in fire-resistance-rated construction provided at least one of the following conditions is fulfilled:
- **5.9** Anchors are used to resist wind or seismic forces only.
- **5.10** Anchors that support fire-resistance-rated construction or gravity load-bearing structural elements are within a fire-resistance-rated envelope or a fire-resistance-rated membrane; are protected by approved fire-resistance-rated materials; or have been evaluated for resistance to fire exposure in accordance with recognized standards.
- **5.11** Anchors are used to support nonstructural elements.
- **5.12** Since an ICC-ES acceptance criteria for evaluating data to determine the performance of expansion anchors in cracked masonry is unavailable at this time, the use of anchors must be limited to installation in uncracked grout-filled concrete masonry. Cracking occurs when ft > fr due to service loads or deformations.
- **5.13** Use of carbon steel anchors is limited to dry, interior locations.
- **5.14** Special inspection must be provided in accordance with Section 4.3 of this report, where applicable.
- 5.15 Anchors are manufactured under an approved quality control program with inspections by ICC-ES.

# 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Expansion Anchors in Masonry Elements (AC01), dated March 2018 (editorially revised December 2020), for use in grout-filled uncracked concrete masonry; including optional seismic tests in tension and shear.

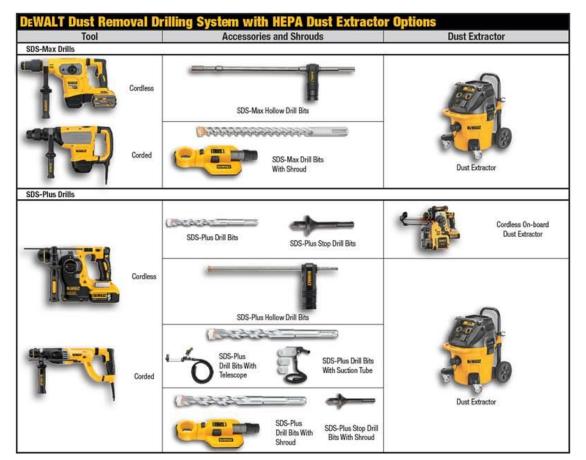
# 7.0 IDENTIFICATION

- **7.1** The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2966) 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 Power-Stud+ SD1 expansion anchors are identified by dimensional characteristics and packaging. A length letter code, visible after installation, is stamped on each anchor on the exposed threaded stud end along with the number "1". <u>Table 2</u> summarizes the length code identification system. A plus sign (+) is also marked with the number "1" on all anchors recognized in this report. Packages are identified with the product name, type and size and the company name as set forth in Section 3.1 of this report.
- **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:

THE HILLMAN GROUP 1280 KEMPER MEADOW DRIVE CINCINNATI, OHIO 45240 ICC-ES<sup>®</sup> Most Widely Accepted and Trusted



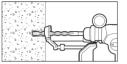
The DEWALT drilling systems shown above collect and remove dust with a HEPA dust extractor during the hole drilling operation in dry base materials using hammer-drills. See manufacturer's printed installation instructions.

FIGURE A—EXAMPLES OF DEWALT DUST REMOVAL DRILLING SYSTEMS WITH HEPA DUST EXTRACTORS FOR ILLUSTRATION

#### TABLE 1—POWER-STUD+ SD1 ANCHOR INSTALLATION SPECIFICATIONS IN GROUT-FILLED CONCRETE MASONRY

Anchor Property /	Notation	Units	Nominal Anchor Diameter					
Setting Information			<sup>3</sup> / <sub>8</sub> inch	<sup>1</sup> /₂ inch	<sup>5</sup> / <sub>8</sub> inch			
Anchor diameter	da	in. (mm)	0.375 (9.5)	0.500 (12.7)	0.625 (15.9)			
Minimum diameter of hole clearance in fixture	d <sub>h</sub>	in. (mm)	<sup>7</sup> / <sub>16</sub> (11.1)	<sup>9/</sup> 16 (14.3)	<sup>11</sup> / <sub>16</sub> (17.5)			
Nominal drill bit diameter (ANSI)	d <sub>bit</sub>	in.	<sup>3</sup> / <sub>8</sub>	1/2	<sup>5</sup> / <sub>8</sub>			
Installation torque	T <sub>inst</sub>	ftlbf. (N-m)	20 (27)	40 (54)	50 (68)			
Torque wrench/socket size	-	in.	<sup>9</sup> / <sub>16</sub>	<sup>3</sup> / <sub>4</sub>	<sup>15</sup> / <sub>16</sub>			
Nut height	-	ln.	<sup>21</sup> / <sub>64</sub>	7/ <sub>16</sub>	<sup>35</sup> / <sub>64</sub>			

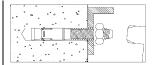
For **SI:** 1 inch = 25.4 mm, 1 ft-lbf = 1.356 N-m.



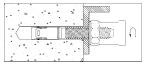


1.) Using the proper drill bit size, drill a hole into the base material to the required depth. The tolerances of the drill bit used should meet the requirements of ANSI Standard B212.15.

<ol><li>Remove dust and debris fron</li></ol>
the hole during drilling (e.g. dust
extractor, hollow bit) or following
drilling (e.g. suction, forced air)
to extract loose particles created
by drilling.



**3.)** Position the washer on the anchor and thread on the nut. If installing through a fixture, drive the anchor through the fixture into the hole. Be sure the anchor is driven to the minimum required embedment depth, h<sub>nom</sub>.



**4.)** Tighten the anchor with a torque wrench by applying the required installation torque, *T<sub>inst</sub>*. See <u>Table1</u>. Note: The threaded stud draws up during the tightening of the nut; the expansion clip (wedge) remains in original position.

FIGURE 1—POWER-STUD+ SD1 INSTALLATION INSTRUCTIONS

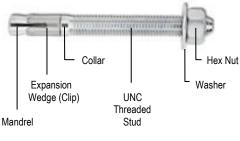


FIGURE 2—POWER-STUD+ SD1 ANCHOR ASSEMBLY

#### TABLE 2—POWER-STUD+ SD1 ANCHOR LENGTH CODE IDENTIFICATION SYSTEM

Length ID marking on threaded stud head		Α	в	С	D	Е	F	G	н	Ι
Overall From anchor		<b>1</b> <sup>1</sup> / <sub>2</sub>	2	2 <sup>1</sup> / <sub>2</sub>	3	3 <sup>1</sup> / <sub>2</sub>	4	4 <sup>1</sup> / <sub>2</sub>	5	5 <sup>1</sup> / <sub>2</sub>
length, (inches)	Up to but not including	2	2 <sup>1</sup> / <sub>2</sub>	3	3 <sup>1</sup> / <sub>2</sub>	4	4 <sup>1</sup> / <sub>2</sub>	5	5 <sup>1</sup> / <sub>2</sub>	6
Length ID marking on threaded stud head (cont.)		J	к	L	м	N	0	Ρ	Q	R
Overall anchor	From	6	6 <sup>1</sup> / <sub>2</sub>	7	7 <sup>1</sup> / <sub>2</sub>	8	8 <sup>1</sup> / <sub>2</sub>	9	9 <sup>1</sup> / <sub>2</sub>	10
length, (inches)	Up to but not including	6 <sup>1</sup> / <sub>2</sub>	7	7 <sup>1</sup> / <sub>2</sub>	8	8 <sup>1</sup> / <sub>2</sub>	9	9 <sup>1</sup> / <sub>2</sub>	10	11

#### TABLE 3—ALLOWABLE TENSION AND SHEAR LOAD CAPACITIES FOR POWER-STUD+ SD1 EXPANSION ANCHORS INSTALLED IN GROUT-FILLED CONCRETE MASONRY<sup>1,2,3,6</sup>

		ANCHOR IN	NSTALLED INTO G	ROUTED MASONRY	WALL FACES⁴		
ANCHOR MIN. DIAMETER EMBED.		MIN. EDGE	MIN. END	TENSION LOAD (pounds)	SHEAR LOAD (pounds)		
d <sub>a</sub> (inch)	h <sub>nom</sub> (inches)	DISTANCE (inches)	DIST. (inches)	IBC / IRC	Direction of Loading	IBC / IRC	
<sup>3</sup> /8	2 <sup>3</sup> /8	4	4	445	Any	595	
		4	4	530	Any	560	
<sup>1</sup> / <sub>2</sub>	$2^{1}/_{2}$	4	12	500	II to Edge	805	
		12	4	530	II to End		
		4	4	705	Any	685	
<sup>5</sup> /8	3 <sup>3</sup> /8	4	12	705	II to Edge	1.005	
		12	4	705	II to End	1,065	
		ANCHOR INS	STALLED INTO TOP	PS OF GROUTED MA	SONRY WALLS <sup>5</sup>		
ANCHOR DIAMETER	MIN. EMBED.	MIN. EDGE	MIN. END	TENSION LOAD (pounds)	SHEAR LOAD (p	ounds)	
d <sub>a</sub> (inch)	h <sub>nom</sub> (inches)	DISTANCE (inches)	DIST. (inches)	IBC / IRC	Direction of Loading	IBC / IRC	
<sup>3</sup> /8	03/	43/	12	295	⊥ to Edge	230	
°/8	2 <sup>3</sup> /8	1 <sup>3</sup> / <sub>4</sub>	12	295	II to Edge	485	
	2 <sup>1</sup> /2	2 <sup>1</sup> /4	12	445	Any	230	
1/2	5	01/	40	005	⊥ to Edge	280	
	5 2 <sup>1</sup> / <sub>4</sub> 12 685	685	II to Edge	565			
	3 <sup>3</sup> /8	21/4	12	765	Any	230	
<sup>5</sup> /8	c1/.	6 <sup>1</sup> / <sub>4</sub> 2 <sup>1</sup> / <sub>4</sub>	12	765	⊥ to Edge	340	
	6'/4				II to Edge	705	

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

<sup>1</sup>Tabulated load values are for anchors installed in minimum 6-inch-wide (152 mm) grout-filled concrete masonry units described in Section 3.2 of this report. If the specified compressive strength of the masonry,  $f'_{m}$  is minimum 2,000 psi (13.8 MPa) the tabulated values may be increased by 20 percent. See Figure 3 for permitted anchor locations.

<sup>2</sup>The embedment depth, *h<sub>nom</sub>*, is measured from the outside surface of the concrete masonry unit to the embedded end of the anchor prior to tightening. <sup>3</sup>When using the basic load combinations in accordance with 2021 IBC Section 1605.1 or 2018, 2015 and 2012 IBC Section 1605.3.1, allowable loads are not permitted to be increased for wind or earthquake loading. When using the alternative basic load combinations for the 2021, 2018, 2015 and 2012 IBC, the allowable loads or load combinations may not be adjusted.

<sup>4</sup>The tabulated values are applicable for anchors installed into grouted masonry wall faces at a critical spacing distance, *s<sub>cr</sub>*, between anchors of 16 times the anchor diameter. The spacing distance between two anchors may be reduced to a minimum distance, *s<sub>min</sub>*, of 8 times the anchor diameter but provided the allowable tension loads are multiplied by a reduction factor of 0.80 and allowable shear loads are multiplied by a reduction factor of 0.90. Linear interpolation for calculation of allowable loads may be used for intermediate anchor spacing distances.

<sup>5</sup>Anchor installations into tops of grouted masonry walls are limited to one per masonry cell.

<sup>6</sup>Anchors may be installed in the grouted cells and in cell webs and bed joints not closer than 1<sup>3</sup>/<sub>8</sub> inches from head joints. The minimum edge and end distances must also be maintained.

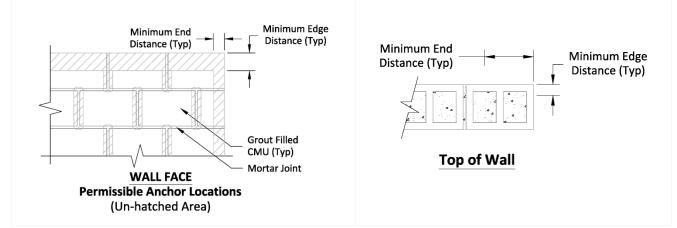


FIGURE 3-POWER-STUD+ SD1 EXPANSION ANCHORS INSTALLED INTO GROUT-FILLED CONCRETE MASONRY



# **ICC-ES Evaluation Report**

# ESR-2966 LABC and LARC Supplement

Reissued December 2023

Revised April 2024

This report is subject to renewal December 2024.

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

## **REPORT HOLDER:**

DEWALT

## **EVALUATION SUBJECT:**

## POWER-STUD®+ SD1 EXPANSION ANCHORS IN MASONRY (DEWALT)

### 1.0 REPORT PURPOSE AND SCOPE

### Purpose:

The purpose of this evaluation report supplement is to indicate that the Power-Stud+ SD1 Expansion Anchors in fully grouted concrete masonry, described in ICC-ES evaluation report <u>ESR-2966</u>, have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

### Applicable code editions:

- 2020 City of Los Angeles Building Code (LABC)
- 2020 City of Los Angeles Residential Code (LARC)

### 2.0 CONCLUSIONS

The Power-Stud+ SD1 Expansion Anchors in fully grouted concrete masonry, described in Sections 2.0 through 7.0 of the evaluation report <u>ESR-2966</u>, comply with the LABC Chapter 21, and the LARC, and are subject to the conditions of use described in this supplement.

## 3.0 CONDITIONS OF USE

The Power-Stud+ SD1 Expansion Anchors described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-2966.
- The design, installation, conditions of use and identification of the anchors are in accordance with the 2018 International Building Code<sup>®</sup> (IBC) provisions noted in the evaluation report <u>ESR-2966</u>.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.
- The allowable design values listed in the evaluation report and tables are for the connection of the anchors to fully grouted masonry. The connection between the anchors and the connected members shall be checked for capacity (which may govern).
- For use in wall anchorage assemblies to flexible diaphragm applications, anchors shall be designed per the requirements of City of Los Angeles Information Bulletin P/BC 2020-071.

This supplement expires concurrently with the evaluation report, reissued December 2023 and revised April 2024.

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.





# **ICC-ES Evaluation Report**

# **ESR-2966 FBC Supplement**

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

## **REPORT HOLDER:**

DEWALT

### **EVALUATION SUBJECT:**

## POWER-STUD®+ SD1 EXPANSION ANCHORS IN MASONRY (DEWALT)

## 1.0 REPORT PURPOSE AND SCOPE

#### Purpose:

The purpose of this evaluation report supplement is to indicate that the Power-Stud+ SD1 Expansion Anchors in Masonry described in ICC-ES evaluation report ESR-2966, have also been evaluated for compliance with the codes noted below.

### Applicable code editions:

- 2020 Florida Building Code—Building
- 2020 Florida Building Code—Residential

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## 2.0 CONCLUSIONS

The Power-Stud+ SD1 Expansion Anchors in Masonry described in Sections 2.0 through 7.0 of the evaluation report ESR-2966, comply with the *Florida Building Code—Building* and the *Florida Building Code—Building* and 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* and the *Florida Building Code—Residential*, as applicable. The installation requirements of the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable. The requirements of the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable.

Use of the Power-Stud+ SD1 Expansion Anchors in Masonry 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 additional conditions:

- a) Design and installation must meet the requirements of Section 2122.7 of the Florida Building Code—Building.
- b) For anchorage to wood members, the connection subject to uplift must be designed for no less than 700 pounds (3114 N).

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 December 2023 and revised April 2024.

