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ICC-ES Evaluation Report

ESR-4749

Issued February 2022

Revised June 2022

This report is subject to renewal February 2023.

DIVISION: 09 00 00—FINISHES
Section: 09 29 10—Gypsum Board Accessories

REPORT HOLDER:

SUREWALLS, LLC

EVALUATION SUBJECT:

SUREWALLS DRYWALL SYSTEM

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)

Properties evaluated:

- Structural
- Surface-Burning Characteristics
- Sound Transmission – Airborne Sound

2.0 USES

The SureWalls Drywall System consists of extruded polyvinyl chloride (PVC) profiles that are alternatives to support and finish gypsum wallboard vertical joints and joints at 90-degree inside and outside corners when installed on steel stud framing. The SureWalls Drywall System has met the interior trim requirements in accordance with IBC Section 806.7.

3.0 DESCRIPTION

3.1 General:

The SureWalls Drywall System consists of inside corner (3017), middle seam (3018), and outside corner (3019) extruded PVC profiles. Each profile comes in lengths up to 12 feet (3.66 m). See Figures 1 through 3 for details.

3.2 Surface-Burning Characteristics:

When tested in accordance with ASTM E84, the SureWalls Drywall System has a flame-spread index of 25 or less and a smoke-developed index of 450 or less (Class A).

3.3 Sound Transmission – Airborne sound:

When installed as described in Section 4.3, the sound-rated assembly, incorporating the SureWalls Drywall System as a

component of the overall assembly, has a minimum Sound Transmission Class (STC) of 50, as required in 2018 IBC Section 1206.2 (2015 and 2012 IBC Section 1207.2) and IRC Section AK102.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The SureWalls Drywall System, when installed as components of a steel stud wall assembly in accordance with Section 4.2, has adequate strength to resist the 5-pounds-per-square-foot (0.24 kN/m²) transverse load requirement specified in 2018 IBC Section 1607.15 (2015 and 2012 IBC Section 1607.14). When the SureWalls Drywall System is installed under the IRC, an engineered design is required in accordance with IRC Section R301.1.3.

4.2 Installation:

Installation must be in accordance with the manufacturer's published installation instructions and this report. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

When installed on steel stud framing spaced at a maximum of 24 inches (609.6 mm) on-center, the profiles must be fastened to the framing with #8 by 1/2-inch-long (12.7 mm) Phillips pan head self-drilling screws at an on-center-spacing of 16 inches (406.4 mm). When installed on wood framing spaced at a maximum 24 inches (609.6 mm) on-center, the profiles must be fastened to the framing with #6 by 1-inch-long (25.4 mm) drywall course GP screws at an on-center-spacing of 16 inches (406.4 mm). Once the profiles are fastened to the framing, gypsum wallboard complying with ASTM C1396 must be installed vertically in accordance with ASTM C840 or GA 216, except where the profiles cover the vertical gypsum wallboard joints and inside or outside corners as the profiles are an alternative to supporting and treating board joints; the profiles provide a snug secured fit for the gypsum wallboards and require no screws to fasten the profiles through the face of the wallboard. See Figure 4 for details.

4.3 Test Assemblies – Sound Transmission – Airborne Sound:

4.3.1 Assembly 1: (STC Rating = 53): A description of the wall assembly, starting from the exterior side to interior side, is as follows:

- One layer of $5/8$ -inch (15.9 mm) thick Type X gypsum wallboard complying to ASTM C1396.
- 3 $5/8$ -inch (92 mm) wide, 25-gage steel studs spaced 24 inches (609.6 mm) on-center. Gypsum wallboard fastened to the steel studs in the field 24 inches (609.6 mm) on-center.
- 3 $5/8$ -inch (92 mm) wide, 25-gage steel track fastened to the top and bottom of steel studs and isolated with $3/8$ -inch-thick (9.5 mm) Neoprene gasket adhered to the top and bottom track.
- SureWalls Drywall System's seam profiles (middle seams with inside and outside corners), fastened to steel studs with #8-18-by- $3/4$ -inch-long (19.1 mm) wafer head self-drilling screws spaced 24 inches (609.6 mm) on-center. Profiles hold gypsum wallboard in place without screws at seams.
- $1/8$ -inch (3.2 mm) thick mass loaded vinyl strip, adhered to every other stud where the SureWalls Drywall Systems' profiles were not used.
- R-13 unfaced Fiberglass insulation, 3 $1/2$ -inch thick (88.9 mm) installed between steel stud cavities.
- $1/8$ -inch (3.2 mm) thick mass loaded vinyl strip, adhered to every other steel stud where the SureWalls Drywall Systems' profiles were not used.
- SureWalls Drywall System's seam profiles (middle seams with inside and outside corners), fastened to steel studs with #8-18-by- $3/4$ -inch-long (19.1 mm) wafer head self-drilling screws spaced 24 inches (609.6 mm) on-center. Profiles hold gypsum wallboard in place without screws at seams.
- One layer of $5/8$ -inch (15.9 mm) thick Type X gypsum wallboard complying to ASTM C1396.

4.3.2 Assembly 2: (STC Rating = 53): A description of the wall assembly, starting from the exterior side to interior side, is as follows:

- One layer of $5/8$ -inch (15.9 mm) thick Type X gypsum wallboard complying to ASTM C1396.
- $35/8$ -inch (92 mm) wide, 25-gage steel studs spaced 24 inches (609.6 mm) on-center. Gypsum wallboard fastened to the steel studs in the field 24 inches (609.6 mm) on-center.
- 3 $5/8$ -inch (92 mm) wide, 25-gage steel track fastened to the top and bottom of steel studs and isolated with $3/8$ -inch-thick (9.5 mm) Neoprene gasket adhered to the top and bottom track.
- SureWalls Drywall System's seam profiles (middle seams with inside and outside corners), fastened to steel studs with #8-18-by- $3/4$ -inch long (19.1 mm) wafer head self-drilling screws spaced 24 inches (609.6 mm) on-center. Profiles hold gypsum wallboard in place without screws at seams.
- $1/16$ -inch (1.6 mm) thick mass loaded vinyl strip, adhered to every other stud under the SureWalls Drywall System's profiles.
- $1/8$ -inch (3.2 mm) thick mass loaded vinyl strip, adhered to every other stud where the SureWalls Drywall Systems' profiles were not used.
- $31/2$ -inch-thick (88.9 mm) Thermafiber® unfaced insulation installed between steel stud cavities.
- $1/8$ -inch (3.2 mm) thick mass loaded vinyl strip, adhered to every other steel stud where the SureWalls Drywall Systems' profiles were not used.

- $1/16$ -inch (1.6 mm) thick mass loaded vinyl strip, adhered to every other stud under the SureWalls Drywall System's profiles.
- SureWalls Drywall System's profiles (middle seam with inside and outside corners), fastened to steel studs with #8-18-by- $3/4$ -inch-long (19.1 mm) wafer head self-drilling screws spaced 24 inches (609.6 mm) on-center. Profiles hold gypsum wallboard in place without screws at seams.
- One layer of $5/8$ -inch (15.9 mm) thick Type X gypsum wallboard complying to ASTM C1396.

4.3.3 Assembly 3: (STC Rating = 51): A description of the wall assembly, starting from the exterior side to interior side, is as follows:

- One layer of $5/8$ -inch (15.9 mm) thick Type X gypsum wallboard complying to ASTM C1396.
- Nominal 2 by 4 wood studs spaced 24 inches (609.6 mm) on center, fastened to single 2-by-4 top and bottom plates with wood screws.
- SureWalls Drywall System's seam profiles (middle seams with inside and outside corners), fastened to wood studs with #6 by 1-inch-long (25.4 mm) drywall course GP screws spaced 16 inches (609.6 mm) on-center. Profiles hold gypsum wallboard in place without screws at seams. Gypsum wallboard fastened to the wood studs in the field #6 by 1-inch-long (25.4 mm) drywall course GP screws spaced 24 inches (609.6 mm) on-center.
- R-13 unfaced Fiberglass insulation, $31/2$ -inch thick (88.9 mm) installed between wood stud cavities.
- SureWalls Drywall System's seam profiles (middle seams with inside and outside corners), fastened to wood studs with #6 by 1-inch-long (25.4 mm) drywall course GP screws spaced 16 inches (609.6 mm) on-center. Profiles hold gypsum wallboard in place without screws at seams. Gypsum wallboard fastened to the wood studs in the field with #6 by 1-inch-long (25.4 mm) drywall course GP screws spaced 24 inches (609.6 mm) on-center.
- One layer of $5/8$ -inch (15.9 mm) thick Type X gypsum wallboard complying to ASTM C1396.

5.0 CONDITIONS OF USE

The SureWalls Drywall System described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation of the SureWalls Drywall System must be in accordance with this report and the manufacturer's printed installation instructions. In the event of a conflict between this report and the manufacturer's printed installation instructions, the more restrictive requirement governs.
- 5.2** The SureWalls Drywall System must be limited to interior use only.
- 5.3** Wall construction not specifically mentioned in the evaluation report shall conform to IBC Chapters 23 and 25 and IRC Chapters 6 and 7, as applicable.
- 5.4** Use of SureWalls Drywall System in horizontal ceiling diaphragms assemblies as described in 2018 IBC Section 2508.6 (2015 and 2012 IBC Section 2508.5, as applicable) is outside the scope of this report.
- 5.5** Use of SureWalls Drywall System in braced wall panel locations, as described in 2018 and 2015 IBC Section

2308.6 (2012 IBC Section 2308.9) and IRC Section R602.10, is not permitted.

- 5.6 Use of SureWalls Drywall System with fire-resistance-rated construction is outside the scope of this report.
- 5.7 The SureWalls Drywall System is manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Alternative Gypsum Board Supports (AGBSs) (AC271), dated October 2009 (editorially revised April 2018).
- 6.2 Reports containing results of testing performed in accordance with ASTM E90.

7.0 IDENTIFICATION

- 7.1 Product labeling shall include, the name of the report holder or listee, and the ICC-ES mark of conformity. The evaluation report number (ICC-ES ESR-4749) may be used in lieu of the mark of conformity.
- 7.2 The report holder’s contact information is the following:

SUREWALLS, LLC
339 WOODS POINT ROAD
OSPREY, FLORIDA 34229
(443) 994-1315

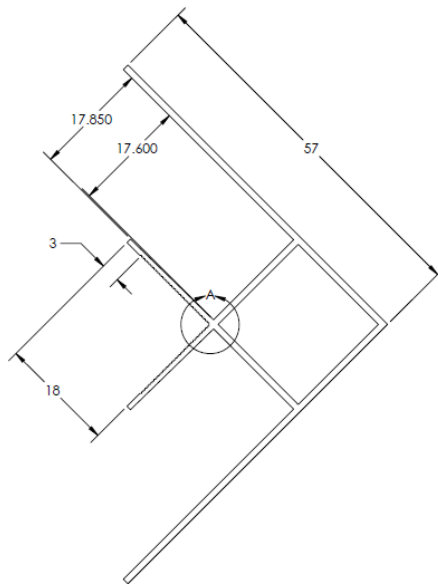


FIGURE 1 – SUREWALLS DRYWALL SYSTEM—INSIDE CORNER PROFILE (3017)

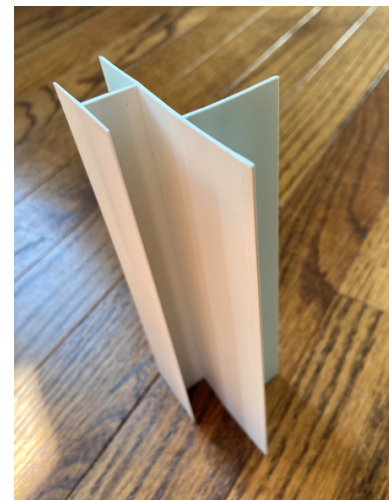
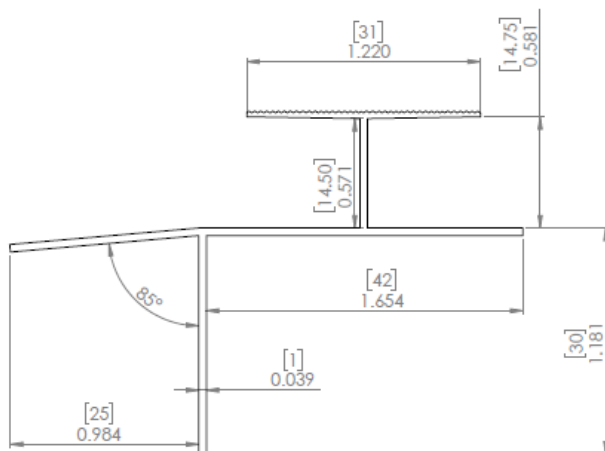


FIGURE 2 – SUREWALLS DRYWALL SYSTEM—MIDDLE SEAM PROFILE (3018)

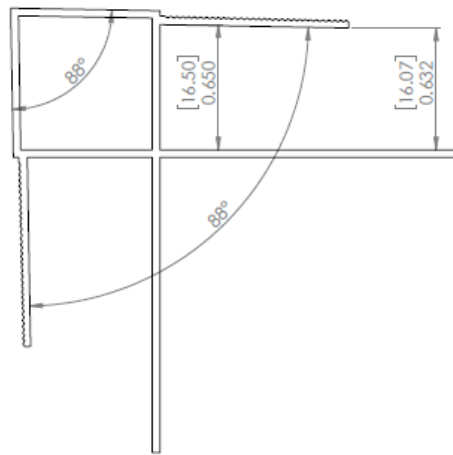
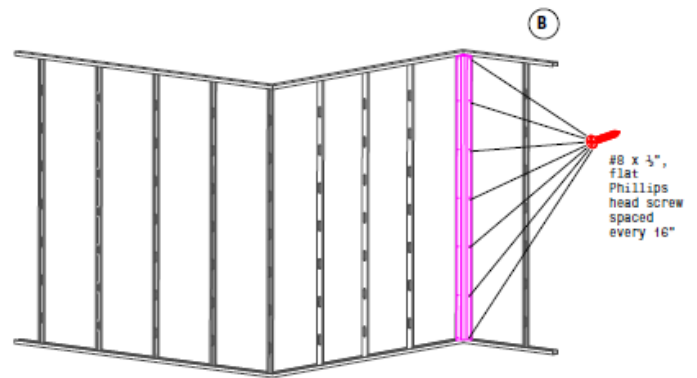
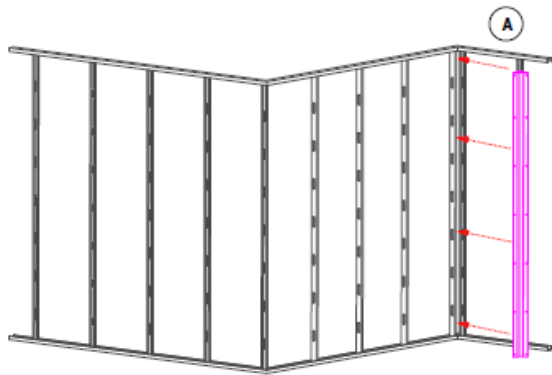
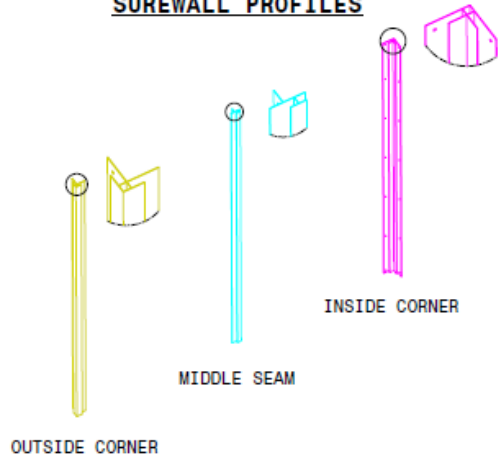


FIGURE 3 – SUREWALLS DRYWALL SYSTEM—OUTSIDE CORNER PROFILE (3019)



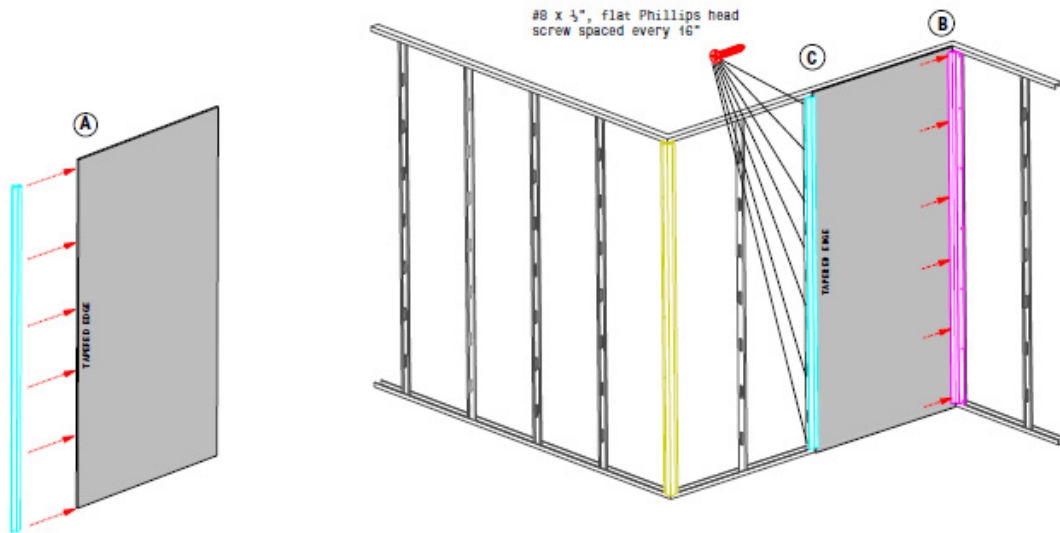
SUREWALL PROFILES



STEP 1:

- A) Mount Inside Corner Profile onto frame.
- B) Screw Inside Corner Profile to corner studs.

STEP 1

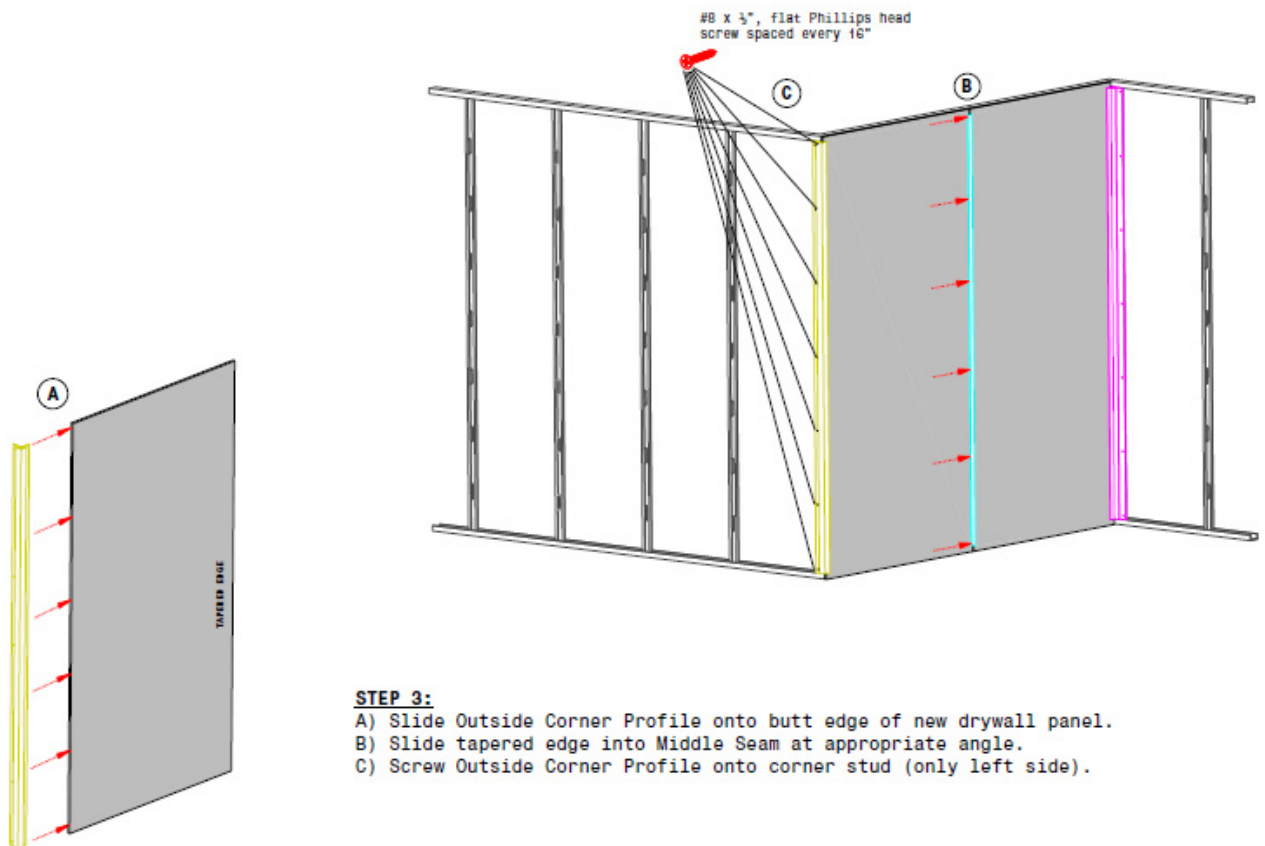


STEP 2:

- A) Slide Middle Seam Profile onto tapered edge of drywall panel.
- B) Slide opposite drywall panel edge into left channel of Inside Corner Profile.
- C) Screw Middle Seam onto stud using same method as Inside Corner Profile.

STEP 2

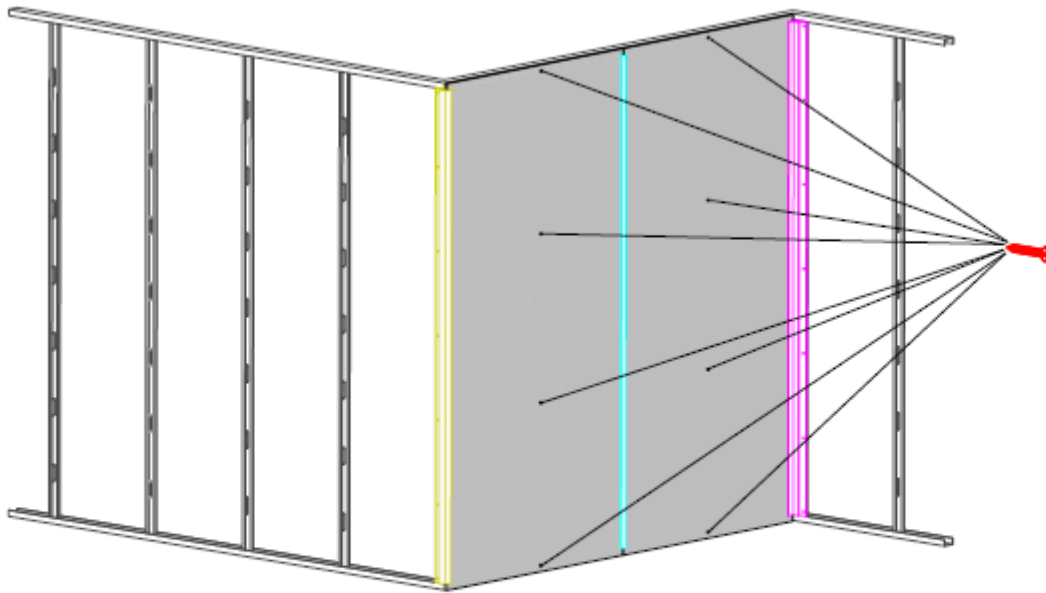
FIGURE 4 – SUREWALLS DRYWALL SYSTEM—PROFILE INSTALLATION



STEP 3:

- A) Slide Outside Corner Profile onto butt edge of new drywall panel.
- B) Slide tapered edge into Middle Seam at appropriate angle.
- C) Screw Outside Corner Profile onto corner stud (only left side).

STEP 3



STEP 4:

Using standard drywall screws, screw both drywall panels to the interior studs in 24" intervals.

STEP 4

FIGURE 4 – SUREWALLS DRYWALL SYSTEM—PROFILE INSTALLATION (cont.)

DIVISION: 09 00 00—FINISHES

Section: 09 29 10—Gypsum Board Accessories

REPORT HOLDER:

SUREWALLS, LLC

EVALUATION SUBJECT:

SUREWALLS DRYWALL SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the SureWalls Drywall System, described in ICC-ES evaluation report ESR-4749, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

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

2.0 CONCLUSIONS

The SureWalls Drywall System, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4749, complies 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-4749 for the 2018 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the SureWalls Drywall System 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 February 2022 and revised June 2022.