ICC-ES Evaluation Report

ESR-4191

Reissued February 2025

Revised February 25, 2025

Subject to renewal February 2027

This report also contains:

- **CA Supplement**
- **FL Supplement**

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 25 00—Water-resistive Barriers/Weather Barriers Section: 07 27 00—Air Barriers	REPORT HOLDER: PROSOCO, INC.	EVALUATION SUBJECT: R-GUARD Spray Wrap MVP Air & Water-resistive Barrier System	

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

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

Properties evaluated:

- Water resistance
- Air barrier material
- Surface-burning characteristics
- Fire-resistance-rated construction

1.2 Evaluation to the following green code(s) and/or standards:

- 2022 *California Green Building Standards Code (CALGreen)*, Title 24, Part 11
- 2024, 2021, 2018, 2015 and 2012 International Green Construction Code® (IgCC)
- 2023, 2020, 2017, 2014 and 2011 ANSI/ASHRAE/USGBC/IES Standard 189.1–Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard™* (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

See Section 3.1.

2.0 USES

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System is used as an alternative to the water-resistive barrier specified in Section 1403.2 of the 2021 and 2018 IBC (Section 1404.2 of the 2015 IBC) and Section R703.2 of the IRC when installed over wood and glass-mat faced gypsum-based sheathing in exterior walls of any construction type. The system may also be used as an air barrier material in accordance with IRC Section N1102.4, and IECC Sections C402.5 and R402.4.

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System complying with ASTM E2570 is used over sheathing where EIFS cladding is to be used in accordance with 2021 and 2018 IBC Section 1407.4.1 (2015 IBC Section 1408.4.1) and IRC Section R703.9.

For exterior walls of buildings of Types I, II, III, and IV construction that are greater than 40 feet (12.2 meters) above grade plane, R-Guard Spray Wrap MVP Air & Water-resistive Barrier System may be used in accordance with Exception 1 of the 2021 and 2018 IBC Section 1402.5 (2015 IBC Section 1403.5).

3.0 DESCRIPTION

3.1 General:

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System consists of: R-Guard Spray Wrap MVP/Spray Wrap Rain Screen, R-Guard Joint & Seam Filler, R-Guard FastFlash®, and R-Guard PorousPrep.

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System consists of: R-Guard Spray Wrap MVP/Spray Wrap Rain Screen, R-Guard Joint & Seam Filler, R-Guard FastFlash®, and R-Guard PorousPrep.

The attributes of the R-Guard Spray Wrap MVP Air & Water-resistive Barrier System have been verified as conforming to the requirements of (i) CALGreen Section 5.407.1 for water-resistive barriers; (ii) 2024 and 2021 IgCC Section 701.3.1.2, 2018 IgCC Section 701.3.1.1 and 2015 and 2012 IgCC Section 605.1.2.1 for air barriers; (iii) 2023 and 2020 ASHRAE 189.1 Section 7.3.1.2, 2017 and 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2020 Sections 602.1.8, 11.602.1.8, 1202.6 and 13.104.1.4; (v) ICC 700-2015 Sections 602.1.8, 11.602.1.8 and 12.6.602.1.8; (vi) ICC 700-2012 Sections 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (vii) ICC 700-2008 Section 602.9 for water resistive barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.1.1 R-Guard Spray Wrap MVP/Spray Wrap Rain Screen: R-Guard Spray Wrap MVP/Spray Wrap Rain Screen is a fluid-applied air and water-resistive barrier that is a ready-mixed, water-based, roller and spray-applied liquid coating material. It is packaged in 5-gallon (18.9 liter) and 55-gallon (208.2 liter) buckets weighing 57.15 pounds (25.9 kilograms) and 628.65 pounds (285.2 kilograms), respectively. The product has a two-year shelf life after the date of manufacture when stored in its original unopened container at the temperature range of 40°F (4°C) to 80°F (26.7°C). The R-Guard Spray Wrap MVP coating is a pink color, and the R-Guard Spray Wrap Rain Screen coating is a dark gray color. The R-Guard Spray Wrap MVP/Spray Wrap Rain Screen has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84.

3.1.2 R-Guard Joint & Seam Filler: R-Guard Joint & Seam Filler is a single-component, ready-mixed, flexible, polymer-based, fiber-reinforced seam and crack filling liquid compound. R-Guard Joint & Seam Filler is packaged in 20-ounce (591.5 milliliter) and 29-ounce (857.6 milliliter) caulk-gun tubes and sausages. The product has a one-year shelf life after the date of manufacture when stored in the original unopened container at the temperature range of 40°F (4.4°C) to 80°F (26.7°C).

3.1.3 R-Guard FastFlash®: R-Guard FastFlash® is a single-component, ready-mixed, flexible, polymer-based, gun-grade material. R-Guard FastFlash® is packaged in 20-ounce (591.5 milliliter) and 29-ounce (857.6 milliliter) caulk-gun tubes and sausages. The product has a one-year shelf life after the date of manufacture when stored in the original unopened container at the temperature range of 40°F (4.4°C) to 80°F (26.7°C).R-Guard FastFlash® complies with AAMA 714-12 in accordance with IRC Section R703.4. For additional information, see ESR-4363.

3.1.4 R-Guard PorousPrep: R-Guard PorousPrep is a water-based liquid applied to the exposed edges of the gypsum board at openings and corners.

3.2 Water Vapor Transmission:

The water vapor transmission value of R-Guard Spray Wrap MVP/Spray Wrap Rain Screen as determined in accordance with ASTM E96, Method B (Water Method) is as follows:

- R-Guard Spray Wrap MVP/Spray Wrap Rain Screen: 25 perms (171.46 g/m^2 per 24 hours) when tested at a thickness of 10 wet mils (0.254 mm)

3.3 Sheathing

The use of the R-Guard Spray Wrap MVP Air & Water-resistive Barrier System is limited to applications over the following sheathing materials:

- Oriented strand board, Exposure 1, complying with U.S. DOC PS-2
- Glass-mat faced gypsum recognized in a current evaluation report as complying with ASTM C1177.

4.0 INSTALLATION

4.1 General:

The installation of R-Guard Spray Wrap MVP Air & Water-resistive Barrier System must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

4.2 Substrate Preparation:

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System must be installed on the exterior side of vertical exterior walls, over the exterior sheathing. The sheathing type must be one of those listed in Section 3.3 of this report. Sheathing must be installed as required by the applicable code. The sheathing surfaces must be free of all bond-inhibiting materials including dirt, oil, and other foreign matter. The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System must not be installed on wet surfaces, below-grade surfaces, or on surfaces subject to water immersion. The substrate surfaces must be in compliance with the manufacturer's published installation instructions to ensure bonding (adhesion) of the coating, rough opening treatment and joint sealant. For glass-mat faced gypsum based sheathing, R-Guard PorousPrep must be applied to the exposed edges of the gypsum board. Damaged sheathing must be removed and replaced.

4.3 R-Guard Joint & Seam Filler Application:

R-Guard Joint & Seam Filler must be applied to a minimum thickness of 20 wet mils (0.51 mm) to all inside and outside corners, all wall sheathing joints and must cover the heads of all overdriven sheathing fasteners.

4.4 R-Guard FastFlash® Application:

R-Guard FastFlash® is applied in the rough openings, extending onto the sheathing surface 4 to 6 inches (101.6 to 152.4 mm). Flashing complying with the applicable code or recognized in an ICC-ES evaluation report, must be installed at transitions to beams, columns, window and door openings, etc. in shingle fashion to shed water.

4.5 R-Guard Spray Wrap MVP/Spray Wrap Rain Screen

R-Guard Spray Wrap MVP/Spray Wrap Rain Screen fluid-applied air &water-resistive barrier must be applied over the sheathing after the R-Guard Joint & Seam Filler and R-Guard FashFlash® have developed a skin on their surfaces. R-Guard Spray Wrap MVP/Spray Wrap Rain Screen must be applied to a uniform wet film thickness of 10 mils (0.254 mm). The coating should be applied when air and surface temperatures are between 25°F (-3°C) to 100°F (38°C) and surfaces are frost free. The coating, filler and rough opening treatment materials must be dry to the touch before covering.

5.0 CONDITIONS OF USE:

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier 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 must comply with this report, the manufacturer's published installation instructions, and the applicable code. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

5.2 For EIFS application, special inspections are required at the jobsite in accordance with 2021 IBC Section 1705.17.1 (2018 and 2015 IBC Section 1705.16.1). For other applications, special instructions are not required at the jobsite if installation is done by an installer or contractor trained by the manufacturer, and a certificate of installation is presented to the code official at the completion of each project; otherwise, special inspections are required at the jobsite in accordance with IBC Section 1707. Duties of the inspector include verifying field preparation of materials, expiration dates, installation components, curing of components, installation of joints and sealants, applied dry-film thickness and interface of coating material with flashings. Special inspections are not required under the IRC.

5.3 Use of the R-Guard FastFlash® as a flashing material, integrated with the R-Guard Spray Wrap MVP Air & Water-resistive Barrier coating, around windows, doors and other openings on exterior walls, is recognized for use under the IRC.

5.4 The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System is limited to installations on vertical walls.

5.5 The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System must be covered with an exterior wall covering complying with the applicable code or recognized in a current ICC-ES evaluation report.

5.6 Repairing of joints and cracks greater than $^{1}/_{8}$ inch (3.2 mm) using the R-Guard Spray Wrap MVP Air & Water-resistive Barrier System is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Coatings Used As Water-resistive Barriers Over Exterior Sheathing (AC212), dated February 2015 (editorially revised July 2020).

6.2 Data in accordance with ASTM E84 (UL723).

6.3 Data in accordance with AAMA 714 per Section 3.4 of ICC-ES Acceptance Criteria for Flexible Flashing (AC148), dated July 2017 (editorially revised May 2018) applicable to R-Guard FastFlash® (ESR-4363).

7.0 IDENTIFICATION

7.1 Packages of the R-Guard Spray Wrap MVP/Spray Wrap Rain Screen, R-Guard Joint & Seam Filler, and R-Guard FastFlash® described in this report must be identified by a label bearing the manufacturer's name (PROSOCO, Inc.) and address, product name, product number, identification of components, lot or batch number, quantity of material in packaged mix, storage instructions, date of manufacturer, shelf life, and the ICC-ES evaluation report number (ESR-4191). Packages of R-Guard PorousPrep described in this report must be identified by a label bearing the manufacturer's name and address, product name, product number, identification of components, lot of batch number, quantity of material in packaged mix, storage instructions, date of manufacturer, and shelf life.

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

PROSOCO, INC.
3741 GREENWAY CIRCLE
LAWRENCE, KANSAS 66046
(785) 865-4200
www.prosoco.com
cmurdock@amt-labs.com

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 25 00—Water-Resistive Barriers/Weather Barriers
Section: 07 27 00—Air Barriers

REPORT HOLDER:

PROSOCO, INC.

EVALUATION SUBJECT:

R-GUARD SPRAY WRAP MVP AIR & WATER-RESISTIVE BARRIER SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the R-Guard Spray Wrap MVP Air & Water-resistive Barrier System, described in ICC-ES evaluation report ESR-4191, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2019 *California Building Code*® (CBC)
- 2019 *California Residential Code*® (CRC)
- 2019 *California Energy Code*® (CEC)

2.0 CONCLUSIONS

2.1 CBC and CEC:

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System, described in Sections 2.0 through 7.0 of the evaluation report ESR-4191, complies with CBC Chapter 14, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the applicable provisions of the CBC. Use as an air barrier must be in accordance with the CEC.

2.2 CRC and CEC:

The R-Guard Spray Wrap MVP Air & Water-resistive Barrier System, described in Sections 2.0 through 7.0 of the evaluation report ESR-4191, complies with CRC Chapter 7, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the applicable provisions of the CRC. Use as an air barrier must be in accordance with the CEC.

This supplement expires concurrently with the evaluation report, reissued February 2025 and revised February 25, 2025 .

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 25 00—Water-Resistive Barriers/Weather Barriers
Section: 07 27 00—Air Barriers

REPORT HOLDER:

PROSOCO, INC.

EVALUATION SUBJECT:

R-GUARD SPRAY WRAP MVP AIR & WATER-RESISTIVE BARRIER SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that R-Guard Spray Wrap MVP Air & Water-resistive Barrier System, described in ICC-ES evaluation report ESR-4191, 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 R-Guard Spray Wrap MVP Air & Water-resistive Barrier System, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4191, complies with the *Florida Building Code—Building* and *Florida Building Code—Residential*, provided the design requirements are determined in accordance with the *Florida Building Code—Building* and *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-4191 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 R-Guard Spray Wrap MVP Air & Water-resistive Barrier System for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *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).

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