

ICC-ES Evaluation Report

ESR-5856

Reissued April 2026


Subject to renewal April 2027

This report also contains:

- [City of LA Supplement](#)
- [CA Supplement w/ DSA and OSHPD](#)
- [FL Supplement w/ HVHZ](#)

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.

Copyright © 2026 ICC Evaluation Service, LLC. All rights reserved.

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: STO CORP.	EVALUATION SUBJECT: STOSHIELD SA NP STOSHIELD SA VP	
--	---	--	---

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2024, 2021 and 2018 [International Building Code® \(IBC\)](#)
- 2024, 2021 and 2018 [International Residential Code® \(IRC\)](#)
- 2024, 2021 and 2018 [International Energy Conservation Code® \(IECC\)](#)

Properties evaluated:

- Water resistance
- Surface-burning characteristics
- Air Leakage

2.0 USES

StoShield™ SA NP and StoShield™ SA VP are used as water-resistive barriers on the exterior side of exterior walls of buildings of any construction type under the IBC and construction permitted under the IRC. Under the IBC, the water-resistive barriers may be used on buildings of Type I, II, III and IV construction that are not greater than 40 feet (12.2 m) in height above grade in accordance with IBC Section 1402.5, except as permitted in Exception 1 of the 2024 IBC Section 1402.6 (2021 and 2018 IBC Section 1402.5). StoShield™ SA NP and StoShield™ SA VP are an alternative to the water-resistive barriers specified in the IBC Section 1403.2 and IRC Section R703.2.

StoShield SA VP is classified as an equivalent to Grade D, 60-minute water-resistive barrier as specified in 2024 and 2021 IBC Section 2510.6 and IRC Section R703.7.3. StoShield™ SA NP and StoShield™ SA VP may also be used as air barrier materials under IRC Section N1102.4.1 and 2024 IECC Sections C402.6 and R402.5 (2021 and 2018 IECC Sections C402.5 and R402.4).

3.0 DESCRIPTION

3.1 General:

StoShield™ SA NP 81948:

StoShield™ SA NP is a self-adhered vapor impermeable air barrier and water-resistive barrier (AWRB) packaged in 30-inch width (0.76m) by 75 lineal feet (22.9m) rolls, having a one-year shelf life when stored between 50°F and 80°F (10°C and 27°C).

StoShield™ SA VP 81949:

StoShield™ SA VP is a self-adhered vapor permeable air barrier and water-resistive barrier (AWRB) packaged in 37.5-inch widths (0.95m) by 75 lineal feet (22.9m) rolls, having a one-year shelf life when stored between 50°F and 80°F (10°C and 27°C).

3.2 Surface-burning Characteristics:

StoShield™ SA NP and StoShield™ SA VP have a flame-spread indices of less than 25 and smoke-developed indices of less than 450 when tested in accordance with ASTM E84.

3.3 Water Vapor Transmission:

The water vapor transmission (WVT) value of StoShield™ SA NP, as determined in accordance with ASTM E96 Procedure A (Desiccant Method), is less than 0.1 Perms [5.72×10^{-9} Kg/(Pa·s·m²)] and

The water vapor transmission (WVT) value of StoShield™ SA VP, as determined in accordance with ASTM E96 Procedure A (Desiccant Method) is greater than 5 Perms [2.9×10^{-10} Kg/(Pa·s·m²)].

3.4 Air Barriers:

StoShield™ SA NP and StoShield™ SA VP as described in this report have air leakage rates not exceeding 0.02 L/s/m² at 75 Pa [0.004 cfm/ft² at 0.3 w.g. (1.57 psf)] as determined in accordance with ASTM E2178 when used as air barrier materials under IRC Section N1102.4.1 and IECC Sections C402.5 and R402.4.

4.0 INSTALLATION

4.1 General:

When StoShield SA NP or StoShield SA VP is installed as a water-resistive barrier and/or an air barrier, the manufacturer's published installation instructions and this report must be strictly adhered to. If requested by the code official, a copy of this report must be available at the jobsite during installation. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

4.2 Water-resistive Barrier:

The water-resistive barrier is installed after wall framing is completed and before windows and doors are installed. The membrane is installed a minimum 2-inches (51mm) at horizontal membrane overlaps, a minimum 3-inches (76mm) at vertical membrane overlaps and minimum 3-inches (76mm) in each direction at the inside and outside corners. Offset vertical seams from one membrane course to the next by a minimum of 12-inches (305mm).

StoShield™ SA VP:

When use is over wood-based sheathing in exterior plaster applications, one or two layers of StoShield™ SA VP may be applied over sheathing in accordance with 2024 and 2021 IBC Section 2510.6 or IRC Section R703.7, as applicable.

When used over wood-based sheathing in exterior plaster applications in accordance with 2024 and 2021 IBC Section 2510.6 and IRC Section R703.7.3 installations must be as follows:

- For dry climate zones (B) in accordance with 2024 and 2021 IBC Section 2510.6.1 or IRC Section R703.7.3.1, the product must be applied in accordance with 2024 and 2021 IBC Section 2510.6.1 Item 1 or 2 or IRC Section R703.7.3.1 Item 1 or 2, as applicable.
- For moist climate zones (A) or marine climate zones (C) in accordance with 2024 and 2021 IBC Section 2510.6.2 or IRC Section R703.7.3.2, the product must be applied in accordance the dry climate zone (B) provisions noted above and with the additional requirements noted in 2024 and 2021 IBC Section 2510.6.2 Item 1 or IRC Section R703.7.3.2 Item 1, as applicable.

For cementitious coatings or exterior insulation and finish systems, application must be in accordance with the evaluation report on the exterior coating.

5.0 CONDITIONS OF USE:

The StoShield™ SA NP and StoShield™ SA VP water-resistive barriers described in this report comply with, or are 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 The product must be installed in accordance with the manufacturer's published installation instructions, this report, 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 The membrane must be covered in accordance with the manufacturer's installation instructions with an approved exterior wall covering complying with the applicable code.
- 5.3 This report is based on air leakage rates for StoShield™ SA NP and StoShield™ SA VP as air barrier materials only. The design and evaluation of the air barrier assembly, of which this product is a component, is outside the scope of this report.
- 5.4 The products are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with [ICC-ES Acceptance Criteria for Water-resistive Barriers \(AC38\)](#), dated August 2016 (Editorially revised June 2024).
- 6.2 Reports of testing in accordance with ASTM E84.
- 6.3 Data in accordance with Section 4.7 of the [ICC-ES Acceptance Criteria for Water-resistive Coatings Used as Water-resistive Barriers Over Exterior Sheathing \(AC212\)](#), dated February 2015 (Editorially revised June 2024) for StoShield™ SA NP.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5856) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, the StoShield™ SA NP and StoShield™ SA VP products are identified by a label on the container bearing the product name.
- 7.3 The report holder's contact information is the following:

STO CORP.
3800 CAMP CREEK PARKWAY
BUILDING 1400, SUITE 120
ATLANTA, GEORGIA 30331
(800) 221-2397
www.stocorp.com

ICC-ES Evaluation Report

ESR-5856 City of LA Supplement

Issued April 2026

This report is subject to renewal April 2027.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

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:

STO CORP.

EVALUATION SUBJECT:

STOSHIELD SA NP AND STOSHIELD SA VP

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that StoShield™ SA NP and StoShield™ SA VP, described in ICC-ES evaluation report [ESR-5856](#), 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:

- 2026 City of Los Angeles Building Code ([LABC](#))
- 2026 City of Los Angeles Residential Code ([LARC](#))

2.0 CONCLUSIONS

The StoShield™ SA NP and StoShield™ SA VP, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5856](#), comply with the LABC Chapter 14, and the LARC Section R703, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The StoShield™ SA NP and StoShield™ SA VP, described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5856](#).
- The design, installation, conditions of use and identification of the StoShield™ SA NP and StoShield™ SA VP are in accordance with the 2024 *International Building Code*® (IBC) and 2024 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-5856](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 14 and 17, and LARC Section R703 as applicable.

This supplement expires concurrently with the evaluation report, issued April 2026.

ICC-ES Evaluation Report

ESR-5856 CA Supplement w/ DSA and OSHPD

Issued April 2026

This report is subject to renewal April 2027.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: THERMAL AND MOISTURE PROTECTION

Section: 07 25 00—Water-Resistive Barriers/Weather Barriers

Section: 07 27 00—Air Barriers

REPORT HOLDER:

STO CORP.

EVALUATION SUBJECT:

STOSHIELD SA NP AND STOSHIELD SA VP

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that StoShield™ SA NP and StoShield™ SA VP, described in ICC-ES evaluation report [ESR-5856](#), have also been evaluated for compliance with the code(s) noted below.

Applicable code edition(s):

- 2025 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.

- 2025 California Residential Code (CRC)
- 2025 California Energy Code (CEC)

2.0 CONCLUSIONS

2.1 CBC:

The water-resistive barriers, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5856](#), comply with CBC Chapter 14, provided the design and installation are in accordance with the 2024 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of the CBC Chapters 14 and 25, as applicable. StoShield™ SA NP use as an air barrier must be in accordance with the CEC.

2.1.1 OSHPD:

The water-resistive barriers, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5856](#), comply with CBC amended Chapter 14 [OSHPD 1, 1R, 2, 4 and 5] and Chapter 14 [OSHPD 3 and 6], provided the design and installation are in accordance with the 2024 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements in CBC Chapters 14 and 25 (with applicable amendments). StoShield™ SA NP use as an air barrier must be in accordance with the CEC.

2.1.2 DSA:

The water-resistive barriers, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5856](#), comply with CBC amended Chapter 14 [DSA SS and DSA SS/CC], provided the design and installation are in accordance with the 2024 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements in CBC Chapters 14 and 25 (with applicable amendments). StoShield™ SA NP use as an air barrier must be in accordance with the CEC.

2.2 CRC:

The water-resistive barriers, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5856](#), comply with CRC Chapter 7, provided the design and installation are in accordance with the 2024 *International Residential Code*® (IRC)

provisions noted in the evaluation report and the applicable provisions of the CRC Chapter 7, as applicable. StoShield™ SA NP use as an air barrier must be in accordance with the CEC.

2.3 CEC:

The StoShield™ SA NP water-resistive barrier, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5856](#), comply with the CEC for use as an air barrier, provided the design and installation are in accordance with the 2024 *International Building Code*® (IBC) and 2024 *International Residential Code*® (IRC) provisions noted in the evaluation report and the applicable provisions of the CEC. StoShield™ SA NP use as an air barrier must be in accordance with the CEC.

This supplement expires concurrently with the evaluation report, issued April 2026.

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:

STO CORP.

EVALUATION SUBJECT:

STOSHIELD SA NP AND STOSHIELD SA VP

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the StoShield™ SA NP and StoShield™ SA VP, described in ICC-ES evaluation report [ESR-5856](#), has 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 StoShield™ SA NP and StoShield™ SA VP, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5856](#), comply with the *Florida Building Code—Building* and *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report [ESR-5856](#) for the 2021 International Building Code meet the requirements of the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable except as follows.

- StoShield™ SA NP and StoShield™ SA VP are used as alternatives to the water-resistive barrier specified in *Florida Building Code—Building* Section 1404.2 and *Florida Building Code—Residential* Section R703.2.
- When installed in exterior walls of buildings greater than 40 feet (12.2 m) above grade plane of Types I through IV construction, the water-resistive barriers must be installed in accordance with Exception 1 of *Florida Building Code—Building* 1403.5.

Use of the StoShield™ SA NP and StoShield™ SA VP has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *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). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the Florida Building Code.

This supplement expires concurrently with the evaluation report, issued April 2026.