

# ICC-ES Evaluation Report

ESR-5187

Reissued December 2025


This report also contains:

- [CA Supplement w/ DSA and OSHPD](#)

Subject to renewal December 2026

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<p><b>DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION</b></p> <p><b>Section: 07 25 00 — Water-Resistive Barriers/Weather Barriers</b></p> <p><b>Section: 07 27 00 — Air Barriers</b></p>	<p><b>REPORT HOLDER:</b></p> <p><b>SRS DISTRIBUTION</b></p>	<p><b>EVALUATION SUBJECT:</b></p> <p><b>TOPSHIELD HOUSEWRAP SUPREME</b></p>	
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## 1.0 EVALUATION SCOPE

### 1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012, 2009 and 2006 [International Residential Code® \(IRC\)](#)
- 2021, 2018, 2015, 2012, 2009 and 2006 [International Energy Conservation Code® \(IECC\)](#)
- Other Codes (see Section 8.0)

### Properties evaluated:

- Water resistance
- Surface-burning characteristics
- Air leakage
- Drainage

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

- 2025 and 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)

### Attribute verified:

- See Section 2.0

## 2.0 USES

TopShield Housewrap Supreme is used as a water-resistive barrier on the exterior side of exterior walls of buildings of any construction type under the IBC and construction permitted under the IRC. Under the 2021, 2018, 2015 and 2012 IBC, the water-resistive barrier 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 2021 and 2018 IBC Section 1402.5, or 2015 and 2012 IBC Section 1403.5, except as permitted in Exceptions 1 and 2 of the 2021 and 2018 IBC Section 1402.5 and 2015 IBC Section 1403.5. The water-resistive barrier is equivalent to Grade D paper as described in 2012, 2009 and 2006 IBC Section 2510.6 and 2015 IRC R703.7.3 [2012, 2009 and 2006 Section R703.6.3]. The TopShield Housewrap Supreme complies as an ASTM E2556, Type I water-resistive barrier in accordance with 2021, 2018 and 2015 IBC Section 2510.6.

The water-resistive barrier may be used as an air barrier material under IRC Section N1102.4.1 and 2021, 2018 and 2015 IECC Section C402.5 and R402.4 [2012 IECC Section C402.4 and R402.4 (2009 and 2006 IECC Sections 402.4 and 502.4)].

In addition, the water-resistive barrier may be used as a component of an EIFS drainage system as described in Section 4.2.

The attributes of the water-resistive barrier 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 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (vi) ICC 700-2012 Section 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.

## 3.0 DESCRIPTION

### 3.1 General:

TopShield Housewrap Supreme has a flame spread index of less than 25 and a smoke-developed index of less than 450, when tested in accordance with ASTM E84.

TopShield Housewrap Supreme has a peak heat release rate of less than 150 kW/m<sup>2</sup>, a total heat release rate of less than 20 MJ/m<sup>2</sup>, and an effective heat of combustion of less than 18 MJ/kg as determined in accordance with ASTM E1354.

The product has an air leakage rate not exceeding 0.02 L/s-m<sup>2</sup> at 75 Pa [0.004 cfm/ft<sup>2</sup> at 0.3 inch w.g. (1.57 psf)] when used as an air barrier material under IRC Section N1102.4.1 and 2021, 2018 and 2015 IECC Section C402.5 and R402.4 [2012 IECC Section C402.4 and R402.4 (2009 and 2006 IECC Sections 402.4 and 502.4)].

The water-resistive barrier is manufactured with ultraviolet stabilizing additives and are supplied in rolls and sheets of varying sizes.

### 3.2 TopShield Housewrap Supreme:

TopShield Housewrap Supreme consists of a 1.25 oz./yd<sup>2</sup> (42.4 g/m<sup>2</sup>) polyethylene nonwoven CLAF<sup>®</sup> fabric laminated to a 0.9 oz./yd<sup>2</sup> (30 g/m<sup>2</sup>) polyethylene microporous film.

## 4.0 INSTALLATION

The water-resistive barrier described in this report is installed after wall framing is completed and before or after windows and doors are installed. The roll is placed approximately 2 feet (610 mm) from the starting corner and fastened to the sheathing with corrosion-resistance staples, large-headed nails, or roofing nails spaced at a maximum of 16 inches (406 mm) on center; and is then unrolled around the building and fastened, as set forth in the manufacturer's published installation instructions, at top and bottom sill plates and at framing members. A minimum of 6 inches (152 mm) of overlap is required for vertical seams and 2 inches (51 mm) for horizontal seams, except where the report holder's installation instructions specify a greater overlap dimension.

When use is over wood-based sheathing in exterior plaster applications, two layers of TopShield Housewrap Supreme must be applied over sheathing in accordance with 2018, 2015, 2012, 2009 and 2006 IBC Section 2510.6 or 2018 and 2015 IRC Section R703.7 [2012, 2009 and 2006 IRC Section R703.6.3].

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

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

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

**4.1 Air Barrier Material:** When used as an air barrier, the materials must be installed in accordance with the report holder's installation instructions and this report.

**4.2 Wall Covering Assembly with Drainage:** The assembly described in this section complies with Section 4.5 of the ICC-ES Acceptance Criteria for EIFS Clad Drainage Wall Assemblies (AC235). The assembly is limited to Type V construction, and may be used in Group R, Division 1 and 3, Occupancies. The system consists of minimum <sup>7</sup>/<sub>16</sub>-inch-thick (11.1 mm) Exterior or Exposure 1 plywood or Exposure 1 oriented strand board applied to wood studs spaced a maximum of 16 inches (406 mm) on center and fastened in accordance with the requirements of Chapter 23 of the IBC or Chapter 6 of the IRC. Vertical board edges must butt over studs. The water-resistive barrier must be applied as described in Section 4.0. For EIFS, minimum 1-inch-thick (25.4 mm) flat Type I expanded polystyrene (EPS) foam plastic boards, recognized in a current ICC-ES evaluation report as complying with ASTM C578, are placed over the TopShield Housewrap Supreme which is fastened to the sheathing. The EPS boards are fastened through the sheathing with wood screws sized to meet wind resistance requirements, with minimum 2-inch-diameter (51 mm) plates or washers and penetrating a minimum of ¼-inch through the sheathing. The fastener spacing must not exceed 12 inches (305 mm). Weep screeds, as set forth in IBC 2512.1.2 or IRC Section R703.6.2.1, must be installed. The EIFS base coat, reinforcing mesh and finish coat must be installed over the EPS in accordance with the EIFS manufacturer's ICC-ES evaluation report.

## 5.0 CONDITIONS OF USE

The TopShield Housewrap Supreme 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 The product must be installed in accordance with the report holder's published installation instructions, the requirements of the applicable code and this report and the published installation instructions, this report governs.
- 5.2 The product must be covered by an exterior wall finish complying with the requirements of the applicable code.
- 5.3 This report is based on air leakage rates for the product as an air barrier material only. The design and evaluation of the air barrier assembly, of which the product is a component, is outside the scope of this report.
- 5.4 The product 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 Water-resistive Barriers \(AC38\)](#), dated August 2016 (editorially revised July 2021).
- 6.2 Report of flame spread characteristics testing in accordance with ASTM E84.
- 6.3 Reports of air leakage testing in accordance with ASTM E2178.
- 6.4 Report of drainage testing in accordance with ASTM E2273.
- 6.5 Report of testing in accordance with ASTM E1354.

## 7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5187) 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 TopShield Housewrap Supreme is identified by a roll label that consists of the report holder's name (SRS Distribution), the product name, the date of manufacture, installation instructions, roll dimensions and the evaluation report number (ESR-5187). The product name and ESR-5187 are printed at regular intervals on the outside face of the product.
- 7.3 The report holder's contact information is the following:

**SRS DISTRIBUTION**  
**7440 STATE HIGHWAY 121**  
**MCKINNEY, TEXAS 75070**  
**(855) 569-1550**  
<https://www.topshieldproducts.com>

## 8.0 OTHER CODES

### 8.1 Evaluation Scope:

In addition to the codes referenced in Section 1.0, the product covered in this report was also evaluated for compliance with the requirements of the following codes:

- 2003 *International Building Code*<sup>®</sup> (2003 IBC)
- 2003 *International Residential Code*<sup>®</sup> (2003 IRC)
- 2003 *International Energy Conservation Code*<sup>®</sup> (2003 IECC)

### 8.2 Uses:

See Section 2.0, with the following modification for the UBC: The product is also equivalent to a Grade D paper as described in UBC Section 2506.4.

### 8.3 Description:

See Section 3.0.

### 8.4 Installation:

See Section 4.0, except for the following modification for the UBC: When use is over wood-based sheathing in exterior plaster applications, two layers of a water-resistive barrier must be applied over sheathing in accordance with UBC Section 2506.4.

### 8.5 Conditions of Use:

See Section 5.0.

### 8.6 Evidence Submitted:

See Section 6.0.

### 8.7 Identification:

See Section 7.0.

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:

## SRS DISTRIBUTION

## EVALUATION SUBJECT:

## TOPSHIELD HOUSEWRAP SUPREME

## 1.0 REPORT PURPOSE AND SCOPE

## Purpose:

The purpose of this evaluation report supplement is to indicate that the TopShield Houswrap Supreme water-resistive barrier, described in ICC-ES evaluation report [ESR-5187](#), has also been evaluated for compliance with the codes noted below.

## Applicable code editions:

- 2019 *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.

- 2019 *California Residential Code*® (CRC)

## 2.0 CONCLUSIONS

## 2.1 CBC:

The TopShield Housewrap Supreme water-resistive barrier, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5187](#), complies with CBC Chapter 14, provided the design and installation are in accordance with the *International Building Code*® (IBC) provisions noted in the evaluation report and the applicable provisions of the CBC.

## 2.1.1 OSHPD:

The TopShield Housewrap Supreme water-resistive barrier, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5187](#), complies with CBC Chapter 14 [OSHPD 2] and CBC Chapter 14 with amendments [OSHPD 1 and 4].

## 2.1.2 DSA:

The TopShield Housewrap Supreme water-resistive barrier, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5187](#), complies with CBC Chapter 14 with amendments [DSA SS and DSA SS/CC].

## 2.2 CRC:

The TopShield Housewrap Supreme water-resistive barrier, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5187](#), complies with CRC Chapter 7, provided the design and installation are in accordance with the *International Residential Code*® (IRC) provisions noted in the evaluation report and the applicable provisions of the CRC.

This supplement expires concurrently with the evaluation report, reissued December 2025.