

# ICC-ES Evaluation Report

**ESR-1404**

Reissued November 2023

This report also contains:

Revised June 2024


- CBC Supplement

Subject to renewal November 2024

- FBC Supplement

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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: FIBERWEB, INC.</b></p> <p><b>ADDITIONAL LISTEE: CERTAINTEED CORPORATION</b></p>	<p><b>EVALUATION SUBJECT: TYPAR® BUILDINGWRAP, TYPAR® COMMERCIAL™, TYPAR® DRAINABLEWRAP™, TYPAR® DRAINABLEWRAP™ PEEL AND STICK, TYPAR® DRAINABLEWRAP™ COMMERCIAL, AND CERTAWRAP™ WEATHER RESISTANT BARRIERS (PRIVATE LABEL I)</b></p>	
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## 1.0 EVALUATION SCOPE

### 1.1 Compliance with the following codes:

- 2024, 2021, 2018, 2015 and 2012 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018, 2015 and 2012 [International Residential Code \(IRC\)](#)
- 2024, 2021, 2018, 2015 and 2012 [International Energy Conservation Code® \(IECC\)](#)

### Properties evaluated:

- Surface-burning characteristics
- Water-resistance
- Air leakage
- Exterior walls of Type I, II, III and IV construction

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

- 2022 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2021, 2018, 2015 and 2012 [International Green Construction Code® \(IgCC\)](#)
- 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 and 2012 ICC 700 [National Green Building Standard™](#) (ICC 700-2020, ICC 700-2015 and ICC 700-2012)

### Attributes verified:

- See Section 3.0

## 2.0 USES

Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> Commercial<sup>™</sup> and CertaWrap<sup>™</sup> Weather Resistant Barriers are used as water-resistive barriers on the exterior side of exterior walls of buildings of all construction types under the IBC and construction permitted under the IRC. Under the IBC for Types I, II, III and IV construction of buildings greater than 40 feet (12.2 m), see Section 4.3.1.

Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick, and Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial are used as a water-resistive barrier on the exterior side of exterior walls of buildings and construction permitted under the IRC. Under the IBC for Types I, II, III, and IV construction of buildings greater than 40 feet (12.2 m), see Section 4.3.2.

Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> Commercial<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial and CertaWrap<sup>™</sup> comply as an ASTM E2556 Type II water-resistive barrier in accordance with Section 2510.6 of the 2024, 2021, 2018 and 2015 IBC (additionally, the products have an equivalent water resistance to a 60-minute Grade D paper in accordance with the exception to Section 2510.6 of the 2012 IBC), and Section R703.7.3 of the 2024, 2021 IRC [additionally, the products have an equivalent water resistance to a 60-minute Grade D paper in accordance with the exception to the 2018 and 2015 IRC Section R703.7.3 (the exception to 2012 IRC Section R703.6.3)]. All products may be used as air barrier materials under 2024 IRC Section N1102.5.1 (2021, 2015, 2015, and 2012 IRC Section N1102.4.1) and 2024 IECC Sections C402.6 and R402.5 (2021, 2018 and 2015 IECC Sections C402.5 and R402.4 or 2012 IECC Sections C402.4 and R402.4).

## 3.0 DESCRIPTION

Typar<sup>®</sup> BuildingWrap and CertaWrap are nonwoven, nonperforated, polypropylene materials with a nominal thickness of 11 mils [0.011 inch (0.279 mm)] and a basis weight of 2.8 ounces per square yard (95 g/m<sup>2</sup>).

Typar<sup>®</sup> Commercial<sup>™</sup> is a nonwoven, nonperforated, polypropylene material with a nominal thickness of 13.7 mils [0.0137 inch (0.348 mm)] and a basis weight of 3.5 ounces per square yard (119 g/m<sup>2</sup>).

Typar<sup>®</sup> DrainableWrap<sup>™</sup> is a nonwoven, nonperforated, polypropylene material with a nominal thickness of 30 mils [0.03 inch (0.762 mm)] and a basis weight of 3.0 ounces per square yard (102 g/m<sup>2</sup>).

Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick is identical to the Typar<sup>®</sup> DrainableWrap<sup>™</sup> product except that it is backed with an acrylic adhesive and a release film; the product has a nominal thickness of 22 mils [0.022 inch (0.56 -mm)].

Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial consists of layered nonwoven, nonperforated, polypropylene materials with a nominal thickness of 20 mils [0.02 inch (0.508 mm)] and a basis weight of 3.7 ounces per square yard (125 g/m<sup>2</sup>).

All products are available in rolls of varying size.

Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick, Typar<sup>®</sup> Commercial<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial and CertaWrap<sup>™</sup> have a flame-spread index of less than 25 and a smoke-developed index of less than 450 when tested in accordance with ASTM E84 (UL 723).

When used as an air barrier material, the membranes have 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 w.g. (1.57 psf)].

The attributes of the Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> Commercial<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial and CertaWrap<sup>™</sup> Weather Resistant Barriers have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers ; (ii) 2021 IgCC Section 701.3.1.2, 2018 IgCC Section 701.3.1.1 and 2012 and 2015 IgCC Section 605.1.2.1 for air barriers; (iii) 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 700-20 Section 602.1.8, 11.602.1.8, 1202.6 and 13.104.1.4, ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8 and ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8 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.

## 4.0 DESIGN AND INSTALLATION

### 4.1 Water-resistive Barrier:

Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> Commercial<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial and CertaWrap<sup>™</sup> are installed after wall framing is completed and before windows and doors are installed. The roll is placed approximately 6 inches (152 mm) from the starting corner and fastened with corrosion-resistant cap staples or cap nails approved by the manufacturer and is then unrolled around the building and fastened as set forth in the manufacturer's published installation instructions. The printed side must be installed

facing the outside. A minimum of 6 inches (152 mm) of overlap shall be provided for vertical seams and 2 inches (51 mm) for horizontal seams, except where the manufacturer's installation instructions specify a greater overlap dimension.

Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick is installed after wall framing is completed and before windows and doors are installed. The exterior wall surfaces must be dry and free of dirt, dust or other foreign matter that would inhibit proper adhesion. Installation is limited to plywood, OSB, vinyl and aluminum substrates. Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick must be applied when the ambient air and surface temperatures are above 50°F (10°C) and below 176°F (80°C). The membrane is installed horizontally over the substrate in accordance with the applicable code. The membrane must be installed with a minimum of 2-inch (50.8 mm) sidelaps and 2-inch (50.8 mm) headlaps.

When use is over wood-based sheathing in exterior plaster applications, the product may be installed in two layers over sheathing as outlined in 2018, 2015, and 2012 IBC Section 2510.6 or 2018 and 2015 IRC Section R703.7.3 (2012 IRC Section R703.6.3), as applicable. Alternatively, one layer of the product may be applied over the sheathing when installed with the additional requirements noted under Exceptions 1 and 2 of 2018 IBC Section 2510.6, the additional requirements noted under the exception to 2015 and 2012 IBC Section 2510.6, or the additional requirements noted under the exception to 2018 and 2015 IRC Section R703.7.3 (2012 IRC Section R703.6.3), as applicable.

When used over wood based sheathing in exterior plaster applications in accordance with 2024 and 2021 IBC Section 2510.6 or 2024 and 2021 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 2024 and 2021 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 2024 and 2021 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 2024 and 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 2024 and 2021 IBC Section 2510.6.2 Item 1 or 2024 and 2021 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.

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.

#### 4.2 Air Barrier Material:

When used as an air barrier, the product must be installed in accordance with the manufacturer's installation instruction and this report.

#### 4.3 Exterior Walls of Types I, II, III and IV construction:

The water-resistive barriers may be used as a component of exterior walls on buildings of Types I, II, III or IV construction as follows:

**4.3.1 Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> Commercial<sup>™</sup> and CertaWrap<sup>™</sup>:** Under the IBC, Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> Commercial<sup>™</sup> and CertaWrap<sup>™</sup> water-resistive barriers have been evaluated for use on exterior walls of buildings of any height above grade when the wall assembly complies with [Table 1](#); the water-resistive barriers may also be installed on exterior walls of buildings of any height above grade when the wall assembly complies with exception 1 of 2024 IBC Section 1402.6 (exception 1 of 2021 and 2018 IBC Section 1402.5 or exception 1 of in 2015 IBC Section 1403.5).

**4.3.2 Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick, and Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial:** Under the IBC, Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick, and Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial water-resistive barriers have been evaluated for use on exterior walls of buildings not greater than 40 feet (12.2 m) above grade; the water-resistive barriers may be installed on exterior walls of buildings of any height above grade when the wall assembly complies with exception 1 of 2024 IBC Section 1402.6 (exception 1 of 2021 and 2018 IBC Section 1402.5 or exception 1 of 2015 IBC Section 1403.5).

## 5.0 CONDITIONS OF USE:

The Typar<sup>®</sup> BuildingWrap, Typar<sup>®</sup> Commercial<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup>, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Peel and Stick, Typar<sup>®</sup> DrainableWrap<sup>™</sup> Commercial and CertaWrap<sup>™</sup> Weather Resistant Barrier products described in this report comply with, or are suitable alternates 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 and the manufacturer's published installation instructions. In the event of conflict between the manufacturer's instructions and this report, this report governs.

- 5.2 The water-resistive barrier must be covered by an exterior wall finish complying with the requirements of the applicable code.
- 5.3 Use on exterior walls of buildings of Types I, II, III and IV construction must be in accordance with Section 4.3 and [Table 1](#) for the applicable edition of the IBC.
- 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 \(AC38\)](#), approved August 2016 (editorially revised June 2024).
- 6.2 Report of testing in accordance with ASTM E84 (UL 723).
- 6.3 Reports of testing in accordance with ASTM E2178.
- 6.4 Report of testing in accordance with NFPA 285 and supporting fire analysis.

**7.0 IDENTIFICATION**

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1404) along with the name, registered trademark, or registered logo or the report holder [and/or listee] must be included in the product label.
- 7.2 In addition, the Typar® BuildingWrap, Typar® Commercial™, Typar® DrainableWrap™, Typar® DrainableWrap™ Peel and Stick, Typar® DrainableWrap™ Commercial and CertaWrap™ products are identified by a label, on the container of each roll of membrane, bearing the company name (Fiberweb, or CertainTeed Corporation), the product name, the manufacturing location (Old Hickory, TN), and the evaluation report number (ESR-1404).
- 7.3 The report holder’s contact information is the following:

**FIBERWEB, INC.**  
**70 OLD HICKORY BOULEVARD**  
**OLD HICKORY, TENNESSEE 37138**  
**(615) 847-7000**  
[www.typar.com](http://www.typar.com)

- 7.4 The Additional Listee’s contact information is the following:

**CERTAINTEED CORPORATION**  
**20 MOORES ROAD**  
**MALVERN, PENNSYLVANIA 19355**

**TABLE 1—NFPA 285 WALL ASSEMBLY**

<b>I. Base Wall System</b> (Use either 1, 2 3 or 4)	1. Concrete Wall
	2. Concrete Masonry Wall (CMU)
	3. Standard Clay Brick Wall
	4. Steel Stud Framed Wall (Use a, b, c, or d, as applicable) – Minimum 20-gauge, 3 <sup>5</sup> / <sub>8</sub> -inch-deep, studs with lateral bracing every 4 feet vertically, spaced 24 inches on center maximum
	a. Interior Wallboard – Minimum of 1 layer of 5/ <sub>8</sub> -inch-thick Type X gypsum wallboard on interior face of studs
	b. Cavity Insulation – None
	c. Floorline Firestopping – (where studs are outboard of the floor assembly): 4 lb/ft <sup>3</sup> mineral wool in each stud cavity and at each floorline – attached with Z-clips
	d. Exterior Sheathing – minimum 1 layer of 1/ <sub>2</sub> -inch-thick, exterior glass-mat gypsum sheathing complying with ASTM C1177
<b>II. Air and Water Barrier</b> Applied to I. Base Wall Systems 1, 2, 3 or 4	1. Typar® BuildingWrap, Typar® Commercial™ and CertaWrap™
<b>III. Exterior Insulation<sup>1</sup></b>	1. None
<b>IV. Exterior Cladding<sup>2</sup></b>	1. Brick: Standard nominal 4-inch thick clay brick. Use standard brick veneer anchors installed maximum 24 inches on center vertically on each stud with a 2-inch maximum air gap between exterior insulation and brick.

For SI: 1 inch = 25.4 mm; 1 lb/ft<sup>3</sup> = 16 kg/m<sup>3</sup>

Notes:

<sup>1</sup> Use minimum 24 gauge (0.033-inch thick) galvanized steel flashing around all window and door openings in the exterior wall.

<sup>2</sup> Exterior cladding must comply with the applicable provisions of IBC Chapter 14 and IRC Chapter 7.

**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:**

**FIBERWEB, INC.**

**EVALUATION SUBJECT:**

**TYPAR® BUILDINGWRAP, TYPAR® COMMERCIAL™, TYPAR® DRAINABLEWRAP™, TYPAR® DRAINABLEWRAP™ PEEL AND STICK, TYPAR® DRAINABLEWRAP™ COMMERCIAL AND CERTAWRAP™ WEATHER RESISTANT BARRIERS (PRIVATE LABEL I)**

**1.0 REPORT PURPOSE AND SCOPE**

**Purpose:**

The purpose of this evaluation report supplement is to indicate that the Typar® BuildingWrap, Typar® Commercial™, Typar® DrainableWrap™, Typar® DrainableWrap™ Peel and Stick, Typar® DrainableWrap™ Commercial and CertaWrap™ Weather Resistant Barriers, described in ICC-ES evaluation report ESR-1404, have also been evaluated for compliance with the codes noted below.

**Applicable code editions:**

- 2022 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.

- 2022 California Residential Code (CRC)
- 2022 California Energy Code (CEC)

**2.0 CONCLUSIONS**

**2.1 CBC:**

The Typar® BuildingWrap, Typar® Commercial™, Typar® Drainable Wrap, Typar® DrainableWrap™ Peel and Stick, Typar® DrainableWrap™ Commercial and CertaWrap™ Weather Resistant Barriers, described in Sections 2.0 through 7.0 of the evaluation report ESR-1404, comply with CBC Chapter 14, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report ESR-1404. Use as an air barrier must be in accordance with the CEC.

**2.1.1 OSHPD:** The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

**2.1.2 DSA:** The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

**2.2 CRC:**

The Typar® BuildingWrap, Typar® Commercial™, Typar® DrainableWrap™, Typar® DrainableWrap™ Commercial and CertaWrap™ Weather Resistant Barriers, described in Sections 2.0 through 7.0 of the evaluation report ESR-1404, comply with CRC Chapter 7, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report ESR-1404 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 ESR-1404, reissued November 2023 and revised June 2024.

**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:**

FIBERWEB, INC.

**ADDITIONAL LISTEE:**

CERTAINTED CORPORATION

**EVALUATION SUBJECT:**

**TYPAR® BUILDINGWRAP, TYPAR® COMMERCIAL™, TYPAR® DRAINABLEWRAP™, TYPAR® DRAINABLEWRAP™ PEEL AND STICK, TYPAR® DRAINABLEWRAP™ COMMERCIAL AND CERTAWRAP™ WEATHER RESISTANT BARRIERS (PRIVATE LABEL I)**

## 1.0 REPORT PURPOSE AND SCOPE

**Purpose:**

The purpose of this evaluation report supplement is to indicate that Typar® BuildingWrap, Typar® Commercial™, Typar® DrainableWrap™, Typar® DrainableWrap™ Peel and Stick, Typar® DrainableWrap™ Commercial and CertaWrap™ Weather Resistant Barriers, described in ICC-ES evaluation report ESR-1404, have 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 Typar® BuildingWrap, Typar® Commercial™ Typar® DrainableWrap™, Typar® DrainableWrap™ Peel and Stick, Typar® DrainableWrap™ Commercial and CertaWrap™ Weather Resistant Barriers, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-1404, comply with the 2023 Florida Building Code—Building and the 2023 Florida Building Code—Residential. The design requirements shall 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-1404 for the 2021 International Building Code® meet the requirements of the Florida Building Code—Building or the Florida Building Code—Residential, as applicable, with the following conditions:

- When use is over wood-based sheathing in exterior plaster applications under the Florida Building Code—Residential, the product may be installed in two layers over sheathing as outlined in Florida Building Code—Residential Section R703.7.3. Alternatively, one layer of the product may be applied over the sheathing when installed with the additional requirements noted under the exception to Florida Building Code—Residential Section R703.7.3.

Use of the Typar® BuildingWrap, Typar® Commercial™ Typar® DrainableWrap™, Typar® DrainableWrap™ Peel and Stick, Typar® DrainableWrap™ Commercial and CertaWrap™ Weather Resistant Barriers has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building or the 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).

This supplement expires concurrently with the evaluation report, reissued November 2023 and revised June 2024.