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® METROWRAP™, TYPAR® DRAINABLE WRAP AND CERTAWRAP™ WEATHER RESISTANT BARRIERS (PRIVATE LABEL I)
1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:


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:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015 and 2012 International Green Construction Code® (IgCC)

Attributes verified:

- See Section 3.0

2.0 USES

Typar® BuildingWrap, Typar® MetroWrap™ and CertaWrap™ 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.

Typar® Drainable Wrap is used as a water-resistive barrier on the exterior side of exterior walls of buildings of all construction types under the 2009 and 2006 IBC and construction permitted under the IRC. Under the 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 plane in accordance with 2018 IBC Section 1402.5 (2015 and 2012 IBC Section 1403.5).

Typar® BuildingWrap, Typar® MetroWrap™, Typar® Drainable Wrap and CertaWrap™ are also equivalent to Grade D building paper in accordance with Section 2510.6 of the 2012, 2009 and 2006 IBC and Section R703.6.3 of the IRC. All products may be used as air barrier materials under IRC Section N1102.4.1 and 2015 IECC Sections C402.5 and R402.4 (2012 IECC Sections C402.4 and R402.4 and 2009 and 2006 IECC Sections 402.4 and 502.4).

3.0 DESCRIPTION

Typar® 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/m²). Typar® MetroWrap™ 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/m²). Typar® Drainable Wrap 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/m²). Sheets are available in rolls of varying size. Typar® BuildingWrap, Typar® Drainable Wrap, Typar® MetroWrap™ and CertaWrap™ 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 membrane has an air leakage rate not exceeding 0.02 L/(S·M²) at 75 Pa [0.004 cfm/ft² at 0.3 w.g. (1.57 psf)].

The attributes of the Typar® BuildingWrap, Typar® MetroWrap™, Typar® Drainable Wrap and CertaWrap™
Weather Resistant Barriers have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers and Section A4.407.5 for air barriers; (ii) 2012 and 2015 IgCC Section 605.1.2.1 for air barriers; (iii) 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (v) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (vi) 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.

4.0 INSTALLATION

4.1 Water-resistive Barrier:
TyPar® BuildingWrap, TyPar® MetroWrap™, TyPar® Drainable Wrap and CertaWrap™ 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. When use is over wood-based sheathing in exterior plaster applications, two layers of product must be applied over sheathing in accordance with the evaluation report number (ESR-1404).

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® BuildingWrap, TyPar® MetroWrap™ and CertaWrap™: Under the 2018, 2015 and 2012 IBC, TyPar® BuildingWrap, TyPar® MetroWrap™ and CertaWrap™ water-resistive barriers are recognized for use on exterior walls of buildings of any height above grade when the wall assembly complies with Table 1. Under the 2009 and 2006 IBC the use on exterior walls of buildings of any height above grade is not limited to any specific wall assembly, except that wall assemblies that use foam plastic insulation must also comply with the requirements of IBC Section 2603.5.

4.3.2 TyPar® Drainable Wrap: Under the 2018, 2015 and 2012 IBC, TyPar® Drainable Wrap water-resistive barrier is recognized for use on exterior walls of buildings not greater than 40 feet (12.2 m) above grade. Under the 2009 and 2006 IBC the water-resistive barrier may be used on exterior walls of buildings greater than 40 feet (12.2 m).

5.0 CONDITIONS OF USE
The TyPar® BuildingWrap, TyPar® MetroWrap™, TyPar® Drainable Wrap and CertaWrap™ 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 January 2015 (editorially revised April 2015).

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 TyPar® BuildingWrap, TyPar® MetroWrap™, TyPar® Drainable Wrap 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).

7.2 The report holder’s contact information is the following:
FIBERWEB, INC.
70 OLD HICKORY BOULEVARD
OLD HICKORY, TENNESSEE 37138
(615) 847-7124
www.typar.com

7.3 The Additional Listee’s contact information is the following:
CERTAINTED CORPORATION
20 MOORES ROAD
MALVERN, PENNSYLVANIA 19355
<table>
<thead>
<tr>
<th>TABLE 1—NFPA 285 WALL ASSEMBLY</th>
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<tbody>
<tr>
<td>I. Base Wall System</td>
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<tr>
<td>(Use either 1, 2, 3 or 4)</td>
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<tr>
<td>1. Concrete Wall</td>
</tr>
<tr>
<td>2. Concrete Masonry Wall (CMU)</td>
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<tr>
<td>3. Standard Clay Brick Wall</td>
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<tr>
<td>4. Steel Stud Framed Wall (Use a, b, c, or d, as applicable) – Minimum 20-gauge, ( \frac{3}{16} ) -inch-deep, studs with lateral bracing every 4 feet vertically, spaced 24 inches on center maximum</td>
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<tr>
<td>a. Interior Wallboard – Minimum of 1 layer of ( \frac{5}{8} ) -inch-thick Type X gypsum wallboard on interior face of studs</td>
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<td>b. Cavity Insulation – None</td>
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<tr>
<td>c. Floorline Firestopping – (where studs are outboard of the floor assembly): 4 lb/ft(^3) mineral wool in each stud cavity and at each floorline – attached with Z-clips</td>
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<tr>
<td>d. Exterior Sheathing – minimum 1 layer of ( \frac{1}{2} ) -inch-thick, exterior glass-mat gypsum sheathing complying with ASTM C1177</td>
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<tr>
<td>II. Air and Water Barrier</td>
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<tr>
<td>Applied to I. Base Wall</td>
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<tr>
<td>Systems 1, 2, 3 or 4</td>
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<tr>
<td>1. Typar® BuildingWrap, Typar® MetroWrap™ and CertaWrap™</td>
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<tr>
<td>III. Exterior Insulation(^1)</td>
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<tr>
<td>1. None</td>
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<td>IV. Exterior Cladding(^2)</td>
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<tr>
<td>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.</td>
</tr>
</tbody>
</table>

Notes:

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

\(^2\) Exterior cladding must comply with the applicable provisions of IBC Chapter 14 and IRC Chapter 7.