

ICC-ES Evaluation Report

ESR-3670

Reissued July 2024


This report also contains:

- FBC Supplement

Subject to renewal July 2025

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<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 25 00— Water-Resistive Barriers/Weather Barriers</p> <p>Section: 07 27 00—Air Barriers</p>	<p>REPORT HOLDER: R.H. TAMLYN & SONS LP</p>	<p>EVALUATION SUBJECT: TAMLYNWRAP™ DRAINABLE AND NONDRAINABLE HOUSEWRAP</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® \(IECC\)](#)

Properties evaluated:

- Water-resistive barrier
- Air permeance
- Surface-burning characteristics

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, 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 TamlynWrap™ Drainable and Nondrainable Housewrap are used as alternatives to the water-resistive barrier specified in 2021 and 2018 IBC Section 1403.2(2015, 2012, 2009 and 2006 IBC Section 1404.2) and IRC Section R703.2.

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

The water-resistive barriers may be installed in all types of construction under the IBC and any construction permitted under the IRC.

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 barrier must be installed in accordance with Exception 1 of 2021 and 2018 IBC Section 1402.5 (2015 IBC Section 1403.5). Under the 2012 IBC, installation is limited to use in exterior walls of buildings having a maximum height of 40 feet (12.2 m) above grade plane under the 2012 IBC Section 1403.5 for buildings of Types I through IV construction.

The TamlynWrap™ Drainable and Nondrainable Housewrap is used as an alternative to the 60-minute Grade D building paper described in 2021 IBC Section 2510.6, the exception under 2012, 2009 and 2006 IBC Section 2510.6, and 2021, 2018 and 2015 IRC Section R703.7.3 (2012, 2009 and 2006 IRC Section R703.6.3), when installed in accordance with Section 4.1 and installed in buildings of Type VB construction under the IBC and any construction under the IRC.

3.0 DESCRIPTION

3.1 General:

The TamlynWrap™ Drainable and Nondrainable Housewrap are nominally 17 mils thick (0.43 mm), 5 feet wide (1.52 m) and white in color. The TamlynWrap™ Drainable Housewrap also has nominally 0.06-inch-thick (1.5 mm) filaments on the exterior side.

The attributes of the TamlynWrap™ Drainable and Nondrainable Housewrap have been verified as conforming to the provisions of (i) CALGreen Sections 5.407.1 for water-resistive barriers and A4.407.5 for air barriers; (ii) 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) 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.

3.2 Air Permeance:

The TamlynWrap™ Drainable and Nondrainable Housewrap have an air leakage rate of less than 0.02 L/(s·m²) @ 75 Pa [0.004 cfm/ft² @ 0.3 inch w.g. (1.57 psf)] when tested in accordance with ASTM E2178.

3.3 Surface-burning Characteristics:

The TamlynWrap™ Drainable and Nondrainable Housewrap 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.

4.0 INSTALLATION

4.1 General:

TamlynWrap™ Drainable and Nondrainable Housewrap must be installed over sheathing with minimum 6-inch (152 mm) horizontal overlaps and 6-inch (152 mm) vertical overlaps.

When used as an alternative to the 60-minute Grade D building paper over wood-based sheathing in exterior plaster applications in accordance with 2021 IBC Section 2510.6 and 2021 IRC Section R703.7.3 installation 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, the products must be applied in accordance with 2021 IBC Section 2510.6.1 Item 1 or 2 and 2021 IRC Section R703.7.3 Item 1 or 2 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 TamlynWrap™ Nondrainable Housewrap must be applied in accordance with the dry climate zone (B) provisions noted above and with 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 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 TamlynWrap™ Drainable Housewrap must be applied in accordance with the dry climate zone (B) provisions noted above and must be separated from the stucco by an intervening layer of EPS insulation board. The EPS insulation board must comply with ASTM C578 and have a minimum density of 1.5 pounds per cubic foot (24 kg/m³) and recognized in a current ICC-ES evaluation report to establish compliance with additional requirements noted in 2021 IBC Section 2510.6.2 Item 2 or 2021 IRC Section R703.7.3.2 Item 2, as applicable.

When used as an alternative to the 60-minute Grade D building paper over wood-based sheathing in exterior plaster applications, the products must be applied over the sheathing in accordance within the exception to 2012, 2009 and 2006 IBC Section 2510.6 and 2018 and 2015 IRC Section R703.7.3 (2012, 2009 and 2006 IRC Section R703.6.3)

4.2 Air Barrier:

TamlynWrap™ Drainable and Nondrainable Housewrap, when used as an air barrier material, must be installed in accordance with the manufacturer's published installation instructions and this report.

5.0 CONDITIONS OF USE:

The TamlynWrap™ Drainable and Nondrainable Housewrap described in this report comply with, or are suitable alternatives 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 conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2 The TamlynWrap™ Drainable and Nondrainable Housewrap must be covered by an exterior wall finish complying with the requirements of the applicable code.
- 5.3 The air leakage rate noted in Section 3.0 is for the TamlynWrap™ Drainable and Nondrainable Housewrap used as an air barrier material only. The design and evaluation of an air barrier assembly, of which this product is a component, is outside the scope of this report.
- 5.4 The products must not be installed where ASTM E2556 Type I or II building paper is required.
- 5.5 The products are 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 Reports of air permeability tests in accordance with ASTM E2178.
- 6.3 Reports of surface-burning characteristics testing in accordance with ASTM E84.
- 6.4 Reports of drainage tests in accordance with AC38 and ASTM E2273, applicable to TamlynWrap™ Drainable Housewrap.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ESR-3670) 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 products described in this report are identified by a label on the container of each roll of material and by printing on the product, with the logo and web address of the report holder, and the product name.
- 7.3 The report holder's contact information is the following:

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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:****R.H. TAMLYN & SONS LP****EVALUATION SUBJECT:****TAMLYNWRAP™ DRAINABLE AND NONDRAINABLE HOUSEWRAP****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that the TamlynWrap™ Drainable and Nondrainable Housewrap, described in ICC-ES evaluation report ESR-3670, 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 TamlynWrap™ Drainable and Nondrainable Housewrap, described in Sections 2.0 through 7.0 of the evaluation report ESR-3670, 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-3670 for the 2021 International Building Code meet the requirements of the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable.

Use of the TamlynWrap™ Drainable and Nondrainable Housewrap 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).

This supplement expires concurrently with the evaluation report, reissued July 2024.