Code Compliance Research Report
CCRR-1092

Issue Date: 08-04-2017
Revision Date: 09-25-2026
Renewal Date: 02-28-2027

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 25 00 – Weather Barriers
Section: 07 27 00 – Air Barrier

REPORT HOLDER:
Amrize Building Envelope LLC (HomeGuard by OX Engineered Products)
5430 Shawland Road
Jacksonville, FL 32254
(904) 240-1382
www.oxep.com

REPORT SUBJECT:
Titan Protective Housewrap (HP and LP)
HomeGuard Housewrap

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, 2018 *International Building Code®* (IBC)
- 2024, 2021, 2018 *International Residential Code®* (IRC)
- 2024, 2021, 2018 *International Energy Conservation Code®* (IECC)

NOTE: This report references the most recent edition of the Codes cited. Section numbers in earlier versions of the Codes may differ.

1.2 Titan Protective Housewrap:

1.2.1 Titan Protective Housewrap has been evaluated for the following properties (see Table 1):

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

1.2.2 Titan Protective Housewrap has been evaluated for the following uses (see Table 1):

- Under the 2018 IBC and IRC, use as an alternative to the water-resistive barriers referenced in IBC Section 1403.2 and IRC Section 703.2
- Under the 2024 and 2021 IBC and IRC, use as a water-resistive barrier referenced in IBC Section 2510.6 and IRC Section R703.7.3
- Use as an air barrier material under IRC Section N1102.5.1 and IECC Sections C402.6.2.3.1 and R402.5

1.3 HomeGuard Housewrap:

1.3.1 HomeGuard Housewrap has been evaluated for the following property (see Table 1):

- Water-resistive barrier

1.3.2 HomeGuard Housewrap has been evaluated for the following uses (see Table 1):

- Use as an alternative to the water-resistive barriers referenced in IBC Section 1403.2 and IRC Section 703.2
- Use as a water-resistive barrier referenced in IBC Section 2510.6 and IRC Section R703.7.3

2.0 STATEMENT OF COMPLIANCE

Titan Protective Housewrap and HomeGuard Housewrap comply with the Codes listed in Section 1.1, and for the properties and uses stated in Sections 1.2 and 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

3.1 Titan Protective Housewrap: The non-perforated housewrap is available with a basis weight of 98 grams per square meter (gsm) in two configurations, designated as HP and LP. The housewrap complies with ASTM E2556 Type II.

3.2 HomeGuard Housewrap: The perforated Housewrap is available with a minimum basis weight of 62 grams per square meter (gsm). The Housewrap complies with ASTM E2556 Type I.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Surface Burning Characteristics: Titan Protective Housewrap (HP and LP) has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84.

4.2 Air Permeability: Titan Protective Housewrap (HP and LP) has an air leakage rate not exceeding 0.02 L/s-m² at 75 Pa when tested in accordance with ASTM E2178.

4.3 Drainage Efficiency: Titan Protective Housewrap HP has a drainage efficiency rating of 93%, when tested in accordance with ASTM E2273.

4.4 Heat Release Rate: Titan Protective Housewrap (HP and LP) has a peak release rate of less than 150 kW/m², a total heat release of less than 20 MJ/m², and an effective heat of combustion of less than 18 MJ/kg when tested in accordance with ASTM E1354 at an incident radiant heat flux of 50kW/m².

5.0 INSTALLATION

5.1 General: Titan Protective Housewrap and HomeGuard Housewrap must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Water-resistive Barrier Application: When used as a water-resistive barrier, Titan Protective Housewrap and HomeGuard Housewrap must be installed as described in IBC Section 1403.2 and IRC Section R703.2, and in accordance with the manufacturer's published installation instructions.

Titan Protective Housewrap may be installed as a water-resistive barrier in exterior stucco applications over wood-based sheathing in accordance with IBC Section 2510.6 and IRC Section R703.7.3.

Homeguard Housewrap may be installed as a water-resistive barrier in exterior stucco applications over wood-based sheathing, provided two layers of the housewrap are installed in accordance with IBC Section 2510.6 and IRC Section R703.7.3.

5.3 Air Barrier Application: When used as an air barrier material, Titan Protective Housewrap (HP and LP) must be installed as described in IRC Section N1102.5.1, or IECC Sections C402.6 or R402.5.1, as applicable, and in accordance with the manufacturer's published installation instructions.

5.4 Use on Exterior Walls of Types I, II, III, and IV Construction: Titan Protective Housewrap (HP and LP) and HomeGuard Housewrap may be used on exterior walls of Types I, II, III, and IV Construction is on buildings 40 feet or less in height above grade plane.

Titan Protective Housewrap (HP and LP) may be used on exterior walls on buildings greater than 40 feet in height above grade plane in Types I, II, III, and IV Construction where the housewrap is the only combustible component, as permitted in IBC Section 1402.6 Exception 2.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 The membranes must be covered in accordance with the manufacturer's installation instructions with an approved exterior wall covering complying with the applicable Code.

6.3 Titan Protective Housewrap and HomeGuard Housewrap are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM E84, ASTM E1354, ASTM E2178, ASTM E2273, and ASTM E2556.

7.2 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), approved August 2016.

7.3 Intertek Listing Reports "HomeGuard – Titan Protective Housewrap" and "HomeGuard – HomeGuard Housewrap", on the Intertek Directory of Building Products.

8.0 IDENTIFICATION

Titan Protective Housewrap and HomeGuard Housewrap are identified with the manufacturer's name [Amrize Building Envelope LLC (HomeGuard by OX Engineered Products)], address and telephone number, the product name (Titan Protective Housewrap or HomeGuard Housewrap), the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-1092).

9.0 OTHER CODES

This section is not applicable.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the https://bpdirectory.intertek.com is recommended to ascertain the current version and status of this report.

TABLE 1 - PROPERTIES EVALUATED

PROPERTY	2024 IBC SECTION[1]	2024 IRC SECTION[1]	2024 IECC Section[1]
Water-Resistive Barrier	1403.2 2510.6	R703.2 R703.7.3	NA
Air Barrier	NA	N1102.5.1	C402.6 R402.5.1
Exterior Walls of Types I-IV Construction	1402.6	NA	NA

[1] Section numbers in earlier Code editions may differ

This Code Compliance Research Report ("Report") is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Report. Only the Client is authorized to permit copying or distribution of this Report and then only in its entirety, and the Client shall not use the Report in a misleading manner. Client further agrees and understands that reliance upon the Report is limited to the representations made therein. The Report is not an endorsement or recommendation for use of the subject and/or product described herein. This Report is not the Intertek Listing Report covering the subject product and utilized for Intertek Certification and this Report does not represent authorization for the use of any Intertek certification marks. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.