Code Compliance Research Report
CCRR-0242

Issue Date: 04-25-2016
Revision Date: 04-23-2026
Renewal Date: 04-30-2027

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 18 13 – Pedestrian Traffic Coatings
Section: 07 54 19 – Polyvinyl-Chloride PVC Roofing

REPORT HOLDER:
O'Sullivan® Films, Inc.
1944 Valley Avenue
Winchester, VA 22601
(540) 667-6666
www.continental-industry.com

REPORT SUBJECT:
Continental Deck Walking Deck and Roofing Membrane

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)
- 2023 *Florida Building Code* (FBC), including HVHZ (see Section 9.0)

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

1.2. The Continental Deck Membranes have been evaluated for the following properties (see Table 1):

- Physical Properties
- Wind Resistance
- Fire Classification

1.3. The Continental Deck Membranes have been evaluated for the following uses:

- As a walking surface applied to a wood deck substrate
- As a roofing surface applied to combustible and non-combustible substrates

2.0 STATEMENT OF COMPLIANCE

The Continental Deck Membrane complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in section 6.0.

3.0 DESCRIPTION

The Continental Deck Membrane is a calendared poly vinyl chloride (PVC) film that is laminated to a non-woven polyester fabric. The membrane is printed and embossed with a variety of patterns and colors. The membrane weighs approximately 54 ounces per square yard, is nominally 60 mils thick, and is available in 72-inch-wide webs.

The roofing membrane is adhered to wood, cement board or concrete substrates with one of the following adhesives:

- ITW Miracle V206 Vinyl Decking Adhesive
- Bostik Pliobond 7008 Adhesive
- IB Water Borne Adhesive
- Bostik Pliobond 1746
- Holcim FA636 (aka Duro-Last WB II)
- Holcim LA432M (aka Duro-Last SB IV)
- ICP Choice Adhesives V4554.

4.0 PERFORMANCE CHARACTERISTICS

4.1. Continental Deck Membrane complies with ASTM D4434, Type II.

4.2. Class A roof covering and walking deck when installed over concrete, or minimum 1/2-inch gypsum sheathing complying with ASTM C1177, or 1/2-inch DensDeck Roof Board.

4.3. Class C roof covering and walking deck when installed over minimum 15/32-inch plywood deck.

4.4. Wind Uplift resistance as described in Section 5.2 of this report.

4.5. Continental Deck Membrane complies with the requirements of FM 4470, Resistance to Foot Traffic test.

5.0 INSTALLATION

5.1. General: Continental Deck Membrane 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.

Substrates must be structurally sound and in accordance with applicable Code. Surfaces shall be dry and free from all debris with installation being limited to time periods where precipitation is not expected.

Flashing must be installed in accordance with applicable Codes, must be applied to all door thresholds, jambs, fascia, and walls.

Subsequent sheets of membrane are installed with a 1-inch overlap and melted together with an approved heat gun and nozzle. A seam roller is used to bond the two surfaces together.

Continental Deck Membrane must be installed with one of the adhesives identified in Section 3.0. The adhesives must be applied in accordance with the manufacturer's published installation instructions. See Table 2 for application requirements.

Repairs to the membrane require that the damaged film be cut and removed. Application of the patch is as described above.

5.2. Wind Uplift Resistance:

5.2.1. Continental Deck Membrane adhered to minimum 1/2-in.-thick ASTM C1177 sheathing, mechanically attached to plywood sheathing with No 12 by 1-5/8-in. self-drilling pan-head screws, with 3-in. diameter galvanized steel roofing plates spaced 16 inches on center through the sheathing to framing. Maximum allowable uplift resistance is 30 psf.

5.2.2. Continental Deck Membrane adhered to concrete. Maximum allowable uplift resistance is 120 psf.

5.2.3. Continental Deck Membrane adhered to plywood sheathing. Maximum allowable uplift resistance is 145 psf.

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. Use of the Continental Deck Membrane as a walking deck is limited to a level walking surface.

6.3. Wind uplift pressure is based upon nominal wind speed (V_{asd}) on any roof area, including edge and corner zones, and must not exceed the allowable wind uplift pressure for the system installed in that particular roof area.

6.4. Continental Deck Membrane is manufactured in Winchester Virginia under a quality program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1. Reports of tests demonstrating compliance with UL 1897-15, Uplift Tests for Roof Covering Systems.

7.2. Reports of tests demonstrating compliance with ASTM E108-20a, Standard test Methods for Fire Tests of Roof Coverings.

7.3. Reports of tests demonstrating compliance with FM 4470-2016, Resistance to Foot Traffic.

7.4. Data in accordance with ICC-ES AC39, Acceptance Criteria for Walking Decks, approved June 2017.

7.5. Reports of testing demonstrating compliance with ASTM D4434-21, Standard Specification for Poly (Vinyl Chloride) Sheet Roofing.

8.0 IDENTIFICATION

The Continental Deck Membrane is identified with the manufacturer's name (O'Sullivan Films, Inc.), address and telephone number, the product name, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0242).



The adhesives are supplied in unopened containers labeled with the adhesive company's name, product name and application instructions.

9.0 FLORIDA BUILDING CODE

The Continental Deck Membrane, described in Sections 2 through 8 of this report, complies with the *Florida Building Code – Building* and 2023 *Florida Building Code – Residential*, subject to the following conditions:

Installation shall be in accordance with Section 5 of this report except as follows:

The Continental Deck Membrane is adhered to 0.5-in. Georgia Pacific DensDeck Prime boards, which are attached to minimum 19/32-in.-thick plywood using one of the following fasteners at a density of one fastener per square foot:

- OMG Inc.: OMG XHD & OMG 3-in Galvalume Steel Plate
- SFS Group USA, Inc.: Dekfast DF-#15-PH3 & Dekfast PLT-R-3

The membrane is adhered to the DensDeck substrate with ITW Miracle Decking Adhesive (V206), applied to both the substrate and membrane at 1 gal/60 ft^2, or with Ashland Pliodeck 7008 or IB Water Borne Adhesive, applied to the substrate at 1 gal/160 ft^2.

The allowable design pressure for this assembly is 60 psf.

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 Intertek website address: bpdirectory.intertek.com is recommended to ascertain the current version and status of this report.

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.

TABLE 1 – PROPERTIES EVALUATED

PROPERTY	APPLICABLE CODE SECTIONS[1]			
	IBC	IRC	FBC - Building	FBC - Residential
Physical Properties	104.2.3.4, 1507.12	104.2.2.4, R905.12	104.11, 1504.6, 1507.12	104.11, R905.13
Wind Resistance	1504.4	R301.2.1	1504.3	R301.2
Fire Classification	1505	R902	1505	R902
Impact	1504.7	N/A	1504.7	N/A
HVHZ	N/A	N/A	1523.6	R4402

[1]Section numbers are applicable for the most recent Code cited in Section 1.1.

TABLE 2 – ADHESIVE APPLICATION

ADHESIVE	APPLICATION RATE
ITW Miracle V206 Vinyl Decking Adhesive	Applied to both substrate and membrane at 120 ft^2/gal, sufficient to bond 60 ft2/gal of membrane
Bostik Pliodeck 7008	Applied to the substrate at 150-165 ft^2/gal
IB Water Borne Adhesive	Applied to the substrate at 160 ft^2/gal
Bostik Pliobond 1746	Applied to both substrate and membrane at 100 - 120 ft^2/gal, sufficient to cover 50 – 70 ft^2/gal
Holcim FA636 (Duro-Last WB II)	Applied to the substrate at 100 - 120 ft^2/gal
Holcim LA432M (Duro-Last SB IV)	Applied to both substrate and membrane at 120 ft^2/gal
ICP Choice Adhesives V4554	Applied to both substrate and membrane at 100 - 120 ft^2/gal, minimum 2.0 g/ft^2 when dry