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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.
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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:

- 2021, 2018, 2015 *International Building Code*® (IBC)
- 2021, 2018, 2015 *International Residential Code*® (IRC)

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) membrane that is laminated to a polyethylene non-woven scrim-back ply. 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 either ITW Miracle Deck Adhesive (V206), Ashland Pliobond 7008 Adhesive or IB Water Borne Adhesive.

4.0 PERFORMANCE CHARACTERISTICS

4.1. 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.

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

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

4.4. 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 ITW Miracle Decking Adhesive (V206), applied to both the substrate and membrane at 1 gal/60 ft², or with Ashland Pliodeck 7008 or IB Water Borne Adhesive, applied to the substrate at 1 gal/160 ft².

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 in accordance with UL 1897, Uplift Tests for Roof Covering Systems.

7.2. Reports of tests in accordance with ASTM E108, Standard test Methods for Fire Tests of Roof Coverings.

7.3. Reports of tests in accordance with FM 4470, 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 in accordance with ICC-ES AC75, Acceptance Criteria for Roofing Membrane Roof-Covering Systems, approved July 2010, editorially revised March 2018.

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).



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

TABLE 1 – PROPERTIES EVALUATED

PROPERTY	IBC SECTION	IRC SECTION
Physical Properties	104.11, 1504.6	R104.11, R904
Wind Resistance	1504.3	Not Applicable
Fire Classification	1505	R902

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