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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:
IB Roof Systems
506 East Dallas Road, Suite 300
Grapevine, TX 76051

REPORT SUBJECT:
DeckShield™

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 2021 code. Section numbers in earlier versions may differ.

1.2. DeckShield™ has been evaluated for the following properties (see Table 1):

- Physical Properties
- Wind Resistance
- Chemical Resistance
- Fire Resistance

1.3. DeckShield™ has been evaluated for the following uses.

- DeckShield™ is a walking surface applied to a wood deck substrate
- DeckShield™ is a roofing surface applied to wood or non-combustible DensDeck roof board substrates. When applied to DensDeck roof board decking, DeckShield™ has a Class A fire resistance classification.

2.0 STATEMENT OF COMPLIANCE

2.1. DeckShield™ 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

3.1. DeckShield™ is a calendared poly vinyl chloride (PVC) membrane that is laminated to a polyethylene non-woven scrim-back ply.

3.2. DeckShield™ is printed and embossed with a variety of patterns and colors and applied as a deck or roof covering and available in 72-inch-wide rolls.

3.3. The tri-laminate membrane weighs approximately 54 ounces per square yard and is nominally 60 mils thick.

4.0 PERFORMANCE CHARACTERISTICS

4.1. Wind Uplift rated at 98 psf maximum design pressure (includes safety factor) when installed in accordance to section 5 of this report.

5.0 INSTALLATION

DeckShield™ 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.

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

5.2. Flashing shall be installed in accordance with applicable code must be applied to all door thresholds, jams, fascia and walls.

5.3. 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.



5.4. DeckShield™ shall be installed with ITW Miracle Decking Adhesive.

5.5. Repairs to the membrane require that the damaged film be cut and removed. Application of the patch is as described in Section 5.3.

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 DeckShield™ described in this Research Report complies with, or is a suitable alternative to, what is specified in those Codes listed in Sections 1.0 of this report, subject to the following conditions:

6.3. DeckShield™ installation as a walking deck is limited to a level walking surface.

6.4. DeckShield™ Class A roof installation is limited to non-combustible DensDeck substrate with a pitch of 1/4:12 or less.

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

6.6. The DeckShield™ is manufactured 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 1897-15, Uplift Tests for Roof Covering Systems.

7.2. Fire classification testing in accordance with ASTM E108-17 Standard test Methods for Fire Tests of Roof Coverings.

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

7.4. Reports of testing in accordance with ICC-ES AC75, Acceptance Criteria for Roofing Membrane Roof-Covering Systems, July 2010, editorially revised March 2018.

8.0 IDENTIFICATION

DeckShield™ is identified with the company name IB Roof Systems, address and telephone number, the product name DeckShield™, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0395).



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: whdirectory.intertek.com is recommended to ascertain the current version and status of this report.

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TABLE 1 – PROPERTIES EVALUATED

| PROPERTY | IBC SECTION | IRC SECTION |
|---------------------|----------------|----------------|
| Physical Properties | 1504.6 | R904 |
| Wind Resistance | 1504.3 | Not Applicable |
| Chemical Resistance | Not applicable | Not Applicable |
| Fire Classification | 1505 | R902 |

