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ICC-ES Evaluation Report

ESR-1783

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Reissued 06/2018
This report is subject to renewal 06/2019.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 30 05—ROOFING FELT AND UNDERLAYMENT

REPORT HOLDER:

NORTHERN ELASTOMERIC, INC.

EVALUATION SUBJECT:

ROOFING UNDERLAYMENTS



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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ADDITIONAL LISTEES:

ATLAS ROOFING CORPORATION

BORAL ROOFING

TRI-BUILT MATERIALS GROUP

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Weather resistance
- Ice dam membrane

1.2 Evaluation to the following green codes and/or standards:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 3.0

2.0 USES

The Northern Elastomeric, Atlas Roofing, Tri-Built Materials Group and Boral Roofing underlayments are used as alternates to the ice barrier specified in Chapter 9 of the IRC and Chapter 15 of the 2015, 2012 and 2009 IBC, and to the ice dam membrane specified in Chapter 15 of the 2006 IBC.

3.0 DESCRIPTION

The roofing underlayments are self-adhering membranes composed of modified asphalt, a fabric or a fiberglass mat and a granule or polyester fabric surface. Additional physical properties are noted in Table 1 of this report. The reverse side is surfaced with a release film that is removed during application, exposing the rubberized asphalt to the roof deck. The membranes are available in 36-inch-wide (914 mm) rolls having various lengths. A single layer of membrane is equivalent to two layers of ASTM D226 Type I felt applied shingle fashion and cemented together.

The attributes of the roofing underlayments have been verified as conforming to the provisions of (i) CALGreen Section A4.407.5; (ii) ICC 700-2015 and ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (iii) ICC 700-2008 Section 602.10 for ice 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.

4.0 INSTALLATION

The deck surface must be free from dust, dirt, loose nails or protrusions, to ensure a clean, smooth surface for good adhesion. Damaged sheathing must be replaced. Installation is limited to solid sheathed decks of plywood or oriented strand board (OSB) substrates. The membrane is self-adhered to the substrate after the release-sheet backer is removed. Starting at the lower edge of the roof, the membrane must be applied in a manner that extends up the roof a distance of 24 inches (609 mm) inside the exterior wall line of the building. The minimum lap must be 3 inches (76 mm) horizontally and 6 inches (152 mm) vertically. Flashings around protrusions must be installed over the underlayment.

Installation of the roof covering can proceed immediately following application of the membrane. The membrane is not intended to be left exposed and must be covered by an approved roof covering.

5.0 CONDITIONS OF USE

The underlayments 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 and the manufacturer's published installation instructions. In the event of conflict between the manufacturer's instructions and this report, this report must govern.

- 5.2 Installation must be limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- 5.3 Installation must be limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- 5.4 Installation must be limited to wood substrates on structures located in areas where nonclassified roof coverings are permitted. Where classified roof coverings are required, substantiating data must be provided to the code official for approval.
- 5.5 The self-adhering membranes must be installed at ambient air and substrate temperatures of 40°F (4°C) or above.
- 5.6 Installation must be limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- 5.7 The underlayments are manufactured by Northern Elastomeric, Inc., at its plant in Brentwood, New Hampshire, under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Self-Adhered Roof Underlayments for Use as Ice Barriers (AC48), dated February 2012 (editorially revised December 2015).

7.0 IDENTIFICATION

7.1 The membranes described in this report must be identified by a label on the packaging with the Northern Elastomeric, Inc., or the additional listees',

name and address; the product name; and the evaluation report number (ESR-1783). Product names for the report holder and additional listees are shown in Table 1.

7.2 The report holder's contact information is the following:

NORTHERN ELASTOMERIC, INC.
61 PINE ROAD
BRENTWOOD, NEW HAMPSHIRE 03833
(740) 321-6345
greg.keeler@owenscorning.com

7.3 The Additional Listees' contact information is the following:

ATLAS ROOFING CORPORATION
2564 VALLEY ROAD
MERIDIAN, MISSISSIPPI 39307

BORAL ROOFING
7575 IRVINE CENTER DRIVE, SUITE 100
IRVINE, CALIFORNIA 92618

TRI-BUILT MATERIALS GROUP
15 EAST UNION AVENUE
POST OFFICE BOX 511
EAST RUTHERFORD, NEW JERSEY 07073

TABLE 1—PRODUCT DESCRIPTION

PRODUCT NAME	COMPANY NAME	NOMINAL THICKNESS (mils)	TOP SURFACE MATERIAL
Boral Tile Seal	Boral Roofing	60	Polyester fabric
WeatherMaster PolySeal	Atlas Roofing Corp.	50	Polyester fabric
AC Metal / Shingle Ice and StormSeal	Northern Elastomeric, Inc.		
Boral TileSeal 50	Boral Roofing		
Tri-Built Self-Adhered	Tri-Built Materials Group	50	Slag granules
WeatherMaster Granular	Atlas Roofing Corp.		
Boral GatorSeal	Boral Roofing		

For SI: 1 mil = 0.0254 mm.