



PRI Evaluation Report

PRI ER 1378E02

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This Report is Reviewed Annually

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Report Holder:

Owens Corning Roofing and Asphalt LLC

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SCOPE

Subject: Underlayments

Products:

- WeatherLock® Specialty Tile & Metal Self-Sealing Waterproofing Barrier
- WeatherLock® FLEX Self-Sealing Ice & Water Barrier
- WeatherLock® Mat Self-Sealing Ice & Water Barrier
- WeatherLock® G Self-Sealing Waterproofing Barrier
- RhinoRoof® G Granulated

Additional Listee Products:

- NEI AC Granular Ice and StormSeal®

CSI MasterFormat®:

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Sub-level 2: 07 30 00 – Steep Slope Roofing

Code References:

- 2021, 2018, 2015, and 2012 International Building Code® (IBC)
- 2021, 2018, 2015, and 2012 International Residential Code® (IRC)

Properties Evaluated:

- External Fire Exposure (ASTM E108, ANSI/UL790)
- Wind Resistance (ANSI/UL 1897)
- Physical Properties (ASTM D1970)
- Ice Barrier (ICC-ES AC48)
- Other (ICC-ES AC152)

Evidence Submitted:

- Recognized test report(s) indicating compliance with ASTM E108 and/or ANSI/UL790
- Recognized test report(s) indicating compliance with ANSI/UL 1897
- Recognized test report(s) indicating compliance with ASTM D1970
- Recognized test report(s) indicating compliance with ICC-ES AC152
- Recognized test report(s) indicating compliance with ICC-ES AC48
- Quality Documentation
- Manufacturer’s Drawings and Installation Instructions

Manufacturing Locations:

<u>Factory ID</u>	<u>Location</u>
Brentwood, NH	61 Pine Road Brentwood, NH 03833
Houston, TX	8360 Market St. Rd. Houston, TX 77029



PRODUCT DESCRIPTIONS and APPLICATIONS

Product Descriptions:

Underlayments covered under this report are self-adhering modified bitumen membranes. They are ASTM D1970 underlayments and, where required, may also be used as an ice barrier as specified in the following code:

- 2021, 2018, 2015, and 2012 *IBC* Chapter 15
- 2021, 2018, 2015, and 2012 *IRC* Chapter 9

<u>Product with Description:</u>	<u>Factory IDs:</u>	<u>Dimensions:</u>
WeatherLock® Specialty Tile & Metal Self-Sealing Waterproofing Barrier A self-adhering SBS modified asphalt membrane with a polyester, non-woven fabric surface and a split release backing. It is supplied in rolls with a nominal coverage area of 2 squares.	Brentwood, NH; Houston, TX	Length: 71.3 ft Width: 3 ft Thickness: 64 mils
WeatherLock® FLEX Self-Sealing Ice & Water Barrier A self-adhering modified bitumen membrane with a cross-laminated film surface and a peel away release liner backing. It is supplied in rolls with a nominal coverage area of 2.2 squares.	Brentwood, NH	Length: 75 ft Width: 3 ft Thickness: 40 mils
WeatherLock® Mat Self-Sealing Ice & Water Barrier A self-adhering SBS modified asphalt, fiberglass mat reinforced membrane with a split, silicone release polyethylene backing. It is supplied in rolls with a nominal coverage area of 2 squares.	Brentwood, NH; Houston, TX	Length: 66.7 ft Width: 3 ft Thickness: 40 mils
WeatherLock® G Self-Sealing Waterproofing Barrier A self-adhering SBS modified asphalt, fiberglass mat reinforced membrane with a granulated surface, with a split release backing. It is supplied in rolls with a nominal coverage area of 2 squares or 1 square.	Brentwood, NH; Houston, TX	Length: 66.7 ft or 33.3 ft Width: 3 ft Thickness: 53 mils
RhinoRoof® Granulated A self-adhered roof underlayment, reinforced with a fiberglass mat, with a granulated surface.	Brentwood, NH; Houston, TX	Length: 65 ft Width: 3 ft Thickness: 46 mils
NEI AC Granular Ice and StormSeal® A self-adhered roof underlayment, reinforced with a fiberglass mat, with a granulated surface.	Brentwood, NH	Length: 65 ft Width: 3 ft Thickness: 46 mils



Fire Classification:

Underlayments covered under this report may be used as an accessory component in approved, fire classified roof covering systems. When installed directly on minimum 15/32 inch thick exterior plywood decking (DOC PS-1) or minimum 7/16 inch thick oriented strand board (OSB) (DOC PS-2) or minimum 1 inch thick wood plank, underlayments are part of a fire classified assembly in accordance with ASTM E108 and/or ANSI/UL 790 and qualify for use under the following code:

- 2021, 2018, 2015, and 2012 IBC Section 1505.1
- 2021, 2018, 2015, and 2012 IRC Section R902.1.

Underlayments covered under this report may be used with the below allowable roof covers.

<u>Underlayment Product:</u>	<u>Fire Classification – Allowable Roof Covers</u>							
	<u>Asphalt Shingles</u>	<u>Clay and Concrete Tile</u>		<u>Metal</u>		<u>Mineral-Surfaced Roll Roofing</u>	<u>Slate and Slate-Type Shingles</u>	<u>Wood Shingles and Shakes</u>
		<u>Mechanical Attachment</u>	<u>Adhesive-Set</u>	<u>Shingles</u>	<u>Panels</u>			
WeatherLock® Specialty Tile & Metal Self-Sealing Waterproofing Barrier	Class A	Class A	Class A	Class C	Class C	No	Class A	No
WeatherLock® FLEX Self-Sealing Ice & Water Barrier	Class A	No	No	No	No	No	Class A	No
WeatherLock® Mat Self-Sealing Ice & Water Barrier	Class A	No	No	No	No	No	Class A	No
WeatherLock® G Self-Sealing Waterproofing Barrier	Class A	No	No	No	No	No	Class A	No
RhinoRoof® Granulated	Class A	No	No	No	No	No	Class A	No
AC Granular Ice and StormSeal®	Class A	No	No	No	No	No	Class A	No



Wind Resistance:

Underlayments covered under this report may be used for mechanically attached roof covers as prescribed in the following code:

- 2021 and 2018 *IBC* Section 1507.1.1
- 2015 and 2012 *IBC* Section 1507 where exceptions or allowances for ASTM D1970 are referenced
- 2021, 2018, and 2015 *IRC* Section R905.1.1 as permitted in Exception 1 for self-adhering underlayment complying with ASTM D1970
- 2012 *IRC* Section R905 where exceptions or allowances for ASTM D1970 are referenced

For adhesive-set clay or concrete roof covers, where wind loads may be transferred from the tile to the underlayment, underlayment systems are evaluated for wind resistance in accordance with ANSI/UL 1897.

System #1	Deck ² :	Minimum ¹⁵ / ₃₂ inch thick exterior plywood (DOC PS-1)
-142.5psf MDP¹	Primer:	None
	Joint Treatment:	None
	Anchor Sheet:	None
	Underlayment:	OWENS CORNING™ WeatherLock® Specialty Tile & Metal applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum No. 12 gage (0.105 inch), ³ / ₈ inch diameter head, corrosion resistant ring shank nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.

Note(s): 1- indicates Maximum Design Pressure (2:1 margin of safety applied to the maximum test load achieved without failure).

2- indicates Deck Attachment to structural support is outside the scope of this evaluation and shall be to the satisfaction of the Authority Having Jurisdiction.

Physical Properties:

Underlayments covered under this report have been tested for physical properties in accordance with ASTM D1970 and qualify for use under the following code:

- 2021, 2018, 2015, and 2012 *IBC* Chapter 15
- 2021, 2018, 2015, and 2012 *IRC* Chapter 9

Ice Barrier:

Underlayments covered under this report may be used as ice barriers in accordance with the following code:

- 2021, 2018, 2015, and 2012 *IBC* Chapter 15
- 2021, 2018, 2015, and 2012 *IRC* Chapter 9

When installed as an ice barrier, underlayment shall extend from lowest edges of roof surface to a point not less than 24 inches inside the exterior wall line of the building.



INSTALLATION – GENERAL

Underlayments covered under this report must be installed in accordance with the applicable code, this report, and the manufacturer's published installation instructions, which must be available at all times on the jobsite during installation. The underlayments are not the primary roof cover and as such are not intended to be left permanently exposed to direct weather.

Underlayments covered under this report have been evaluated for application to wood decks. Application to other surfaces is outside the scope of this evaluation.

Roof slopes must be minimum 2:12 (16.67% slope or 9°). Prior to application, all underlayments shall be unrolled and allowed to relax for 3-5 min. The underlayment shall be installed with the release backer removed and pressed firmly into place to ensure complete contact with the deck. The minimum application temperature is 40°F and the manufacturer must be contacted when installing below this temperature.

Underlayments covered under this report are moisture and vapor barriers. The spaces under the covered deck area and the attic space must be properly ventilated in accordance with local building codes.

Underlayments covered under this report are intended for exterior applications only.

Deck:

The roof deck must be code-complying, exterior-grade wood structural panel sheathing complying with DOC PS-1 or DOC PS-2 and minimum $\frac{3}{8}$ inch (9.5mm) thick; solid lumber sheathing using minimum nominal 1 by 6 lumber is permitted. Deck surface shall be clean, smooth, dry, free of debris, and structurally sound prior to installing underlayment. All deck fasteners shall be checked for protrusion and corrected prior to underlayment application. Replace any damaged or rotted deck.

Refer to PRODUCT DESCRIPTIONS and APPLICATIONS section for

additional stipulations for roof deck as associated with Fire Classification(s) and Wind Resistance System(s).

Fasteners:

When used for underlayment, fasteners must comply with ASTM F1667 and be minimum No. 12 gage (0.105 inch), $\frac{3}{8}$ inch diameter head, galvanized, stainless steel, aluminum or copper corrosion-resistance nails. Fasteners must penetrate into the deck minimum $\frac{3}{4}$ inch, or through the deck, where the deck is less than $\frac{3}{4}$ inch thick.

Asphalt Cement:

When used with underlayment, asphalt cement must comply with ASTM D4586.

Asphalt Primer:

When used with underlayment, asphalt primer must comply with ASTM D41.

Flashing:

Underlayments covered under this report may be used as flashing material where self-adhering polymer modified bitumen sheet and/or ASTM D1970 are referenced in the following code as applicable:

- 2021, 2018, 2015, and 2012 *IBC* Section 1507
- 2021, 2018, 2015, and 2012 *IRC* Section R905

Where underlayment is intended to adhere to metal flashing materials, metal surface shall be primed.

Reroofing:

Prior to the reroofing, all existing roofing must be removed down to the deck. Exposed deck surface shall be clean, smooth, dry, free of debris, and structurally sound prior to installing underlayment. All deck fasteners shall be checked for protrusion and corrected prior to underlayment application. Replace any damaged or rotted deck.



INSTALLATION – UNDERLAYMENTS

WeatherLock® Specialty Tile & Metal Self-Sealing Waterproofing Barrier: WeatherLock® Specialty Tile & Metal may be used as the underlayment for the entire roof with roof coverings of clay and concrete tile, metal shingles, or metal panels. Optionally, WeatherLock® Specialty Tile & Metal may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. Optionally, WeatherLock® Specialty Tile & Metal may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration; along a valley, WeatherLock® Specialty Tile & Metal can be installed as a valley liner. WeatherLock® Specialty Tile & Metal may be used as a component of fire classified roofing assemblies when installed with clay and concrete tile, metal shingles, metal panels, asphalt shingles, or slate shingles. WeatherLock® Specialty Tile & Metal is not fire classified for use under mineral-surfaced roll roofing or wood roof coverings.

WeatherLock® Specialty Tile & Metal shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. To ensure adhesion at the end lap, apply sufficient asphalt primer or asphalt cement to fully penetrate polyester, non-woven fabric surface and apply pressure to seal lap. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 90 days.

For clay and concrete tile applications, the following additional provisions shall be implemented:

- WeatherLock® Specialty Tile & Metal shall be back nailed 12 inches o.c. in the selvage area on roof slopes greater than 3:12 (nails shall be installed perpendicular to the deck slope with the nail heads flush to the top surface of the underlayment).
- On slopes 2:12 to 6:12, it is permissible store tiles directly atop WeatherLock® Specialty Tile & Metal in stacks no greater than ten (10) tiles per stack.
- On slopes greater than 6:12, tiles shall be stored on battens in stacks no greater than ten (10) tiles per stack.
- In adhesive-set applications, qualified tile adhesives must be used. Qualified adhesives include ICP Adhesives & Sealants, Inc. "Polyset® AH-160" or Dupont de Nemours, Inc. "Tile Bond™ Roof Tile Adhesive".

WeatherLock® FLEX Self-Sealing Ice & Water Barrier: WeatherLock® FLEX Self-Sealing Ice & Water Barrier may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, WeatherLock® FLEX Self-Sealing Ice & Water Barrier can be installed as a valley liner. Optionally, WeatherLock® FLEX Self-Sealing Ice & Water Barrier may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. WeatherLock® FLEX Self-Sealing Ice & Water Barrier may be used as a component of fire classified roofing assemblies when installed with asphalt shingles or slate shingles. WeatherLock® FLEX Self-Sealing Ice & Water Barrier is not fire classified for use under clay and concrete tile, metal, mineral-surfaced roll roofing, or wood roof coverings.

WeatherLock® FLEX Self-Sealing Ice & Water Barrier shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.

WeatherLock® Mat Self-Sealing Ice & Water Barrier: WeatherLock® Mat Self-Sealing Ice & Water Barrier may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, WeatherLock® Mat Self-Sealing Ice & Water Barrier can be installed as a valley liner. Optionally, WeatherLock® Mat Self-Sealing Ice & Water Barrier may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. WeatherLock® Mat Self-Sealing Ice & Water Barrier may be used as a component of fire classified roofing assemblies when installed with asphalt shingles or slate shingles. WeatherLock® Mat Self-Sealing Ice & Water Barrier is not fire classified for use under clay and concrete tile, metal, mineral-surfaced



roll roofing, or wood roof coverings.

WeatherLock® Mat Self-Sealing Ice & Water Barrier shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.

WeatherLock® G Self-Sealing Ice & Water Barrier: WeatherLock® G Self-Sealing Ice & Water Barrier may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, WeatherLock® G Self-Sealing Ice & Water Barrier can be installed as a valley liner. Optionally, WeatherLock® G Self-Sealing Ice & Water Barrier may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. WeatherLock® G Self-Sealing Ice & Water Barrier may be used as a component of fire classified roofing assemblies when installed with asphalt shingles or slate shingles. WeatherLock® G Self-Sealing Ice & Water Barrier is not fire classified for use under clay and concrete tile, metal, mineral-surfaced roll roofing, or wood roof coverings.

WeatherLock® G Self-Sealing Ice & Water Barrier shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.

RhinoRoof® Granulated: RhinoRoof® Granulated may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, RhinoRoof® Granulated can be installed as a valley liner. Optionally, RhinoRoof® Granulated may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. RhinoRoof® Granulated may be used as a component of fire classified roofing assemblies when installed with asphalt shingles or slate shingles. RhinoRoof® Granulated is not fire classified for use under clay and concrete tile, metal, mineral-surfaced roll roofing, or wood roof coverings.

RhinoRoof® Granulated shall be installed as directed in the published installation instructions. Asphalt primer may be required for applications to oriented strand board (OSB). Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.

AC Granular Ice and StormSeal®: AC Granular Ice and StormSeal® may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, AC Granular Ice and StormSeal® can be installed as a valley liner. Optionally, AC Granular Ice and StormSeal® may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. AC Granular Ice and StormSeal® may be used as a component of fire classified roofing assemblies when installed with asphalt shingles or slate shingles. AC Granular Ice and StormSeal® is not fire classified for use under clay and concrete tile, metal, mineral-surfaced roll roofing, or wood roof coverings.

AC Granular Ice and StormSeal® shall be installed as directed in the published installation instructions. Asphalt primer may be required for applications to oriented strand board (OSB). Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.



CONDITIONS OF USE & IDENTIFICATION

The products described in this report comply with, or are suitable alternatives to, the codes listed in this report, subject to the following conditions:

- The products as well as the installation methods must be in compliance with the applicable code, this report, and the installation instruction provided by the manufacturer. If the manufacturer's installation instructions differ from what is listed in this report, this report governs.
- This report does not supersede the local jurisdiction regulations and the final approval of the building products, materials, or systems in this report is the responsibility of the authorities having jurisdiction.
- This report is only valid if the product(s) and/or the referenced documentation/codes related to the products do not change. If there is a change in product(s) and/or the referenced documentation/codes related to the products, PRI Construction Materials Technologies, LLC must be informed and further action may be necessary to revalidate this report.
- This report, in its entirety, must be available at job sites upon request by the user or for inspection by the Building Official. A copy of this report in full shall be provided by the manufacturer or its distributors.
- The products are identified by marks bearing the report holder's name, the manufacture location, the product name, and the Seal of PRI Validation Program for Building Materials. The Seal shall indicate, at a minimum, the following:
 - a. ASTM D1970
 - b. ASTM E108 – Class A
- The products are manufactured at the locations listed in this report and are manufactured under a quality control program with inspections and/or surveillance by PRI Construction Materials Technologies, LLC.
- This report is a supplement to product certification. The products listed herein must be certified separately under the PRI Validation Program for Building Products. This report alone is not a product certification and requires separate product certification under the PRI Validation Program for Building Products to be valid.
- The current status of this report as well as a directory of certified products, including supplemental PRI Evaluation Reports, can be found at pri-group.com.

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