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ESR-1524

Reissued 03/2019

This report is subject to renewal 03/2020.

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

REPORT HOLDER:

SOPREMA, INC.

EVALUATION SUBJECT:

**ROOF UNDERLAYMENTS: LASTOBOND SHIELD, LASTOBOND PRO HT-N,
LASTOBOND SHIELD HT, LASTOBOND PRO HT-S, LASTOBOND EAVES PROTECTION SHEET,
LASTOBOND 195, LASTOBOND SMOOTH SEAL HT, LASTOBOND TU HT, RESISTO LB1236,
RESISTO LB1244 AND SA SMOOTH PLY 40**



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(WSSPC) Award in Excellence"*



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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

SOPREMA, INC.

ADDITIONAL LISTEE:

ENVIROSHAKE®

PRODUCT: ENVIROSHIELD (SAME AS LASTOBOND PRO HT-S)

EVALUATION SUBJECT:

ROOF UNDERLAYMENTS: LASTOBOND SHIELD, LASTOBOND PRO HT-N, LASTOBOND SHIELD HT, LASTOBOND PRO HT-S, LASTOBOND EAVES PROTECTION SHEET, LASTOBOND 195, LASTOBOND SMOOTH SEAL HT, LASTOBOND TU HT, RESISTO LB1236, RESISTO LB1244 AND SA SMOOTH PLY 40

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)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical properties
- Fire classification
- Ice barrier properties

1.2 Evaluation to the following green code(s) 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

Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S, Lastobond Eaves Protection Sheet, Lastobond 195, Lastobond TU HT, Resisto LB1236, Resisto LB1244 and SA Smooth Ply 40 are self-adhering membranes used as alternates to the ASTM D226, Type I and Type II, roofing underlayments specified in IBC Chapter 15 and IRC Chapter 9. The underlayments may also be used as components of classified roofing when installed as described in this report. The Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S, Lastobond Eaves Protection Sheet, Lastobond 195, Lastobond Smooth Seal HT, Lastobond TU HT, Resisto LB1236, Resisto LB1244 and SA Smooth Ply 40 are used as alternates to the ice barrier specified in IBC Chapter 15 and IRC Chapter 9.

3.0 DESCRIPTION

The roofing underlayments and ice barriers are composed of elastomeric modified bitumen blends and other polymers applied to a release sheet. Lastobond Shield HT, Lastobond Pro HT-S and Lastobond TU HT are designed for use as roof underlayments in high-temperature conditions. The tops of the Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S and SA Smooth Ply 40 are covered with a high-density polyethylene fabric and the undersides are self-adhering with a silicone release film. The underlayments are available in rolls 36 and 39 inches wide (914 and 1000 mm) and 65 and 75 feet long (20 and 22.9 m), and have a nominal thickness of 40 mils (1.0 mm). The tops of Lastobond TU HT are covered with a non-woven polyester and the undersides are self-adhering with a silicone release film. Lastobond TU HT is 39³/₈ inch-wide (1000 mm) and 65 feet long (20 m) rolls, and has a nominal thickness of 67 mils (1.7 mm).

The tops of the Lastobond Eaves Protection Sheet, Lastobond 195, Resisto LB1236 and Resisto LB1244 are covered with sand and the undersides are self-adhering with a silicone release film. The top of Lastobond Smooth Seal HT is covered with a non-slip plastic surface and the underside is self-adhering with a silicone release film. Lastobond Eaves Protection Sheet and Lastobond 195 have a nominal thickness of 63 mils (1.6 mm). Lastobond Smooth Seal HT has a nominal thickness of 47 mils (1.2 mm) while Resisto LB1236 and Resisto LB1244 have a nominal thickness of 53 mils (1.35 mm). Lastobond Eaves Protection Sheet, Lastobond 195, Lastobond Smooth Seal HT and Resisto LB1236 are available in 36 inch wide (914 mm) and 65 feet long (20 m) rolls.

Resisto LB1244 is available in 44 inch wide (1117 mm) and 75 feet long (23 m) rolls.

The attributes of the Lastobond Eaves Protection Sheet, Lastobond 195, Lastobond Smooth Seal HT, Lastobond TU HT, Resisto LB1236 and Resisto LB1244 membranes have been verified as conforming to the provisions of (i) CALGreen Section A4.407.5; (ii) ICC 700-2015 Sections 602.1.13, 11.602.1.13 and 12.6.602.1.13; (iii) ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (iv) 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

4.1 General:

The underlayments must be applied to a properly prepared, dry, clean substrate free of dust, debris, oils and unadhered coatings. Acceptable substrates for Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S and SA Smooth Ply 40 are plywood and OSB. Acceptable substrates for Lastobond TU HT are plywood, OSB, concrete primed with an ASTM D41 compliant primer, SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime. Acceptable substrate for Lastobond Eaves Protection Sheet, Lastobond 195, Lastobond Smooth Seal HT, Resisto LB1236 and Resisto LB1244 is plywood.

Installation of the underlayments must be by removal of the release film and applying the self-adhesive underside to the approved substrate using applied pressure. Starting at the low point of the roof, a full roll or cut roll of the underlayment must be positioned into lengths of 10 to 15 feet (3 to 5 m) and rolled loosely over the substrate, parallel to the eaves in a manner that will allow side laps to shed water. A minimum of 1 to 2 feet (305 to 610 mm) of release film must be peeled back as the underlayment is aligned. The remaining release film needs to be removed as the remainder of the underlayment is applied. The underlayment must then be pressed in place with heavy hand pressure. The underlayment must be installed with edge laps of 3 inches (76 mm) and end laps of 6 inches (152 mm). For valley and ridge applications, after removal of the release film, the sheet needs to be centered over valley or ridge, draped and pressed in place.

Installation of the roof covering can proceed immediately following application of the underlayments. The underlayments must be covered by an approved roof covering within the time set forth in the underlayment report holder's published installation instructions.

For reroofing applications, the existing roofing material needs to be removed and the existing substrate must meet the requirements for new installations as described in this section (Section 4.1).

4.2 Ice Barrier:

In areas of the roof required to have an ice barrier under IBC Chapter 15 or IRC Chapter 9, a single layer of Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S, Lastobond Eaves Protection Sheet, Lastobond 195, Lastobond Smooth Seal HT, Lastobond TU HT, Resisto LB1236, Resisto LB1244 or SA Smooth Ply 40 must be installed in sufficient courses such

that the ice barrier extends from the eave's edge up the roof for a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. The roof underlayment, applied in the field of the roof, must overlap the ice barrier.

4.3 Flashing:

Flashing must be in accordance with the applicable code. Flashing around protrusions must be over the lower course of the underlayment and under the upper course of the underlayment, to prevent water backup. When used, metal drip edges must be installed beneath the underlayment at the eaves and over the underlayment at rakes.

4.4 Classified Roofing:

The roofing underlayments may be used as a component of a classified roof assembly consisting of Class A or C glass fiber mat shingles or Class C asphalt organic shingles complying with the applicable code when installed in accordance with this report over a minimum ¹⁵/₃₂-inch-thick (11.9 mm) plywood deck.

Under the 2015, 2012, 2009 and 2006 IBC, Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond HT-S, Lastobond 195 and SA Smooth Ply 40 underlayments may be used in Class A roof assemblies that utilize roof covering materials specified in the exceptions to IBC Section 1505.2. Under the 2006 IBC, these underlayments may be used in Class B roof assemblies that include the roof coverings specified in the exception to Section 1505.3.

Under the 2015, 2012 and 2009 IRC, Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond HT-S, Lastobond 195 and SA Smooth Ply 40 underlayments be used in Class A roof assemblies that include the roof coverings specified in the exceptions to Section R902.1. Under the 2006 IRC, these underlayments may be used with the Class A roof assemblies that include the roof coverings specified in Section R902.1.

4.5 Use of Lastobond TU HT as Underlayment in Adhered Clay and Concrete Roof Tile Installations:

4.5.1 General: Lastobond TU HT is recognized for use as underlayment to which concrete or clay roof tiles are adhered. Roof tiles must be regular-weight or lightweight clay or concrete tiles and must be recognized in a current ICC-ES evaluation report that specifically recognizes use of roof tile adhesive. The tiles must be adhered with ICP Adhesives Polyset® AH-160 as recognized in ICC-ES report ([ESR-1709](#)). The adhesive system is limited to areas in which the mean annual rainfall does not exceed 20 inches (508 mm) and the average of the daily lows for any month is at least 30°F (-1.1°C). The adhesive system must be installed in accordance with the requirements specified in [ESR-1709](#), except as noted in Sections 4.5.2 through Section 4.5.5 of this report.

4.5.2 Underlayment: Lastobond TU HT membrane must be self-adhered directly to plywood substrates without use of an anchor sheet.

4.5.3 Tile Attachment: Tiles must be attached as described in Section 4.2.4 of [ESR-1709](#). Except lugged tile staging at slopes greater than 5:12 (41.67 percent) must be 2 tiles perpendicular to slope, with the bottom tile inverted (lungs facing up) followed by 8 tiles high on slope or battens must be required.

4.5.4 Roof Classification: Lastobond TU HT membrane may be used as a component of Class A roof assemblies that consist of concrete or clay tiles adhered with ICP

Adhesives Polyset® AH-160 when installed in accordance with this report over minimum ¹⁵/₃₂-inch thick (11.9 mm) plywood deck.

4.5.5 Design: Design must be in accordance with Section 4.1.3 and Figures 1 through 3 of [ESR-1709](#).

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 be in accordance with this report, the applicable code and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's instructions and this report, this report governs. A copy of the manufacturer's installation instructions must be available at the jobsite at all times during installation.
- 5.2 Installation is limited to the substrates recognized for use with each product, as noted in Section 4.1.
- 5.3 Installation is limited to use with roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters except as noted in Section 4.5.
- 5.4 Installation is limited to roof slopes of 2:12 (17 percent) and greater and where the roof covering does not involve hot asphalt or coal tar pitch.
- 5.5 Installation is limited to roofs ventilated in accordance with the applicable code.
- 5.6 Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S, Lastobond TU HT and SA Smooth Ply 40 shall be installed only when the ambient air and substrate temperatures at the time of installation are above 50°F (10°C). Lastobond Eaves Protection Sheet, Lastobond 195, Resisto LB1236, Resisto LB1244 shall be installed only when the ambient air and substrate temperatures at the time of installation are above 40°F (5°C).
- 5.7 The Lastobond TU HT adhesive system is limited to areas in which the mean annual rainfall does not exceed 20 inches (508 mm) and the average of the daily lows for any month is at least 30°F (-1.1°C).
- 5.8 Lastobond Eaves Protection Sheet, Lastobond 195, Lastobond TU HT, Resisto LB1236 and Resisto LB1244 roofing underlayments are manufactured in Drummondville, Quebec; Chilliwack, British Columbia; Wadsworth, Ohio; and Gulfport, Mississippi, under a quality control program with inspections by ICC-ES.
- 5.9 Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S and SA Smooth Ply

40 roofing underlayments are manufactured in Drummondville, Quebec under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised May 2018).
- 6.2 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 May 2018). Data in accordance with ASTM D1970 (Section 3.1.1 of AC48) applicable to Lastobond Shield, Lastobond Pro HT-N, Lastobond Shield HT, Lastobond Pro HT-S, Lastobond Smooth Seal HT, Lastobond TU HT, Lastobond 195, Lastobond Eaves Protection Sheet, Resisto LB1236, Resisto LB 1244 and SA Smooth Ply 40. Data in accordance with Section 3.1.2 of AC48 applicable to Lastobond TU HT.
- 6.3 Data in accordance with the ICC-ES Acceptance Criteria for Adhesive Attachment of Concrete or Clay Roofing Tiles (AC152), dated February 2016.
- 6.4 Class A and Class C roof tests in accordance with ASTM E108 (UL 790).

7.0 IDENTIFICATION

- 7.1 Each roll of the underlayment described in this report is identified with a stamp bearing the manufacturer's name (Soprema, Inc.) or additional listee's name (Enviroshake®) and address, the product name, and the evaluation report number (ESR-1524).
- 7.2 The report holder's contact information is the following:
SOPREMA, INC.
1688 JB MICHAUD
DRUMMONDVILLE, QUEBEC J2C 8E9
CANADA
(800) 567-1492
www.soprema.ca
- 7.3 The Additional Listee's contact information is the following:

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