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

REPORT HOLDER:

Epilay Inc.
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REPORT SUBJECT:

EpiStik™ Plus, EpiStik™ SA-250, and EpiStik™ Ice & Water Synthetic Roofing Underlayments

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2021, 2018, and 2015 *International Building Code*® (IBC)
- 2021, 2018, and 2015 *International Residential Code*® (IRC)
- 2023 and 2020 *Florida Building Code* (FBC) (See Section 9.1)

1.2 The underlayments have been evaluated for the following properties (see Table 1):

- Physical properties
- Ice barrier
- Fire classification

1.3 The EpiStik™ Plus, EpiStik™ SA-250, and EpiStik™ Ice & Water Synthetic Roofing Underlayments have been evaluated for the following uses:

- Use where an ice barrier is required under IBC Section 1507 and IRC Section R905
- Use as a component of a classified assembly when installed as described in this report

2.0 STATEMENT OF COMPLIANCE

EpiStik™ Plus, EpiStik™ SA-250, EpiStik™ Ice & Water Synthetic Roofing Underlayments comply 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 EpiStik™ Plus Synthetic Roofing Underlayment: The underlayment is a self-adhered synthetic underlayment comprised of a synthetic facer, modified bitumen as the adhesive material, and a release liner. The underlayment is grey in color on the exposed side. The nominal weight of the underlayment is 23.96 pounds per 100 square feet and it is available in rolls measuring 3 feet wide and 72 feet long.

3.2 EpiStik™ SA-250 Synthetic Roofing Underlayment: The underlayment is a self-adhered synthetic underlayment comprised of a facing material, polymer modified bitumen as the adhesive material, and a release liner. The underlayment is grey in color on the exposed side. The nominal weight of the underlayment is 25.0 pounds per 100 square feet and it is available in rolls measuring 3 feet wide and 67 feet long.

3.3 EpiStik™ Ice & Water Synthetic Roofing Underlayment: The underlayment is a self-adhered synthetic underlayment comprised of a fiberglass mesh coated with adhesive compound on both sides having a top layer of limestone granules and a bottom layer of release liner. The underlayment is black in color on the exposed side. The nominal weight of the underlayment is 26.11 pounds per 100 square feet and it is available in rolls measuring 3 feet wide and 65 feet long.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Fire Classification: When installed in accordance with the assembly described in Table 2 of this report, EpiStik™ Plus, EpiStik™ SA-250, and EpiStik™ Ice & Water Synthetic Roofing Underlayments meet Class A fire classification.



5.0 INSTALLATION

5.1 General: EpiStik™ Plus, EpiStik™ SA-250, and EpiStik™ Ice & Water Synthetic Roofing Underlayments 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.

5.2 Application: The roof deck must be in proper condition to ensure adhesion. 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 liner is removed. The membrane is applied from the lower edge of the roof, extending up the roof a distance of 24 inches inside the exterior wall line of the building. The membrane must be lapped a minimum of 3 inches on horizontal seams and 6 inches on vertical seams. Flashings around protrusions must be installed under the underlayment.

The roof covering may be installed immediately following the underlayment application, and the underlayment must be covered within the time designated in the report holder's published installation instructions.

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 Installation is limited to use with approved mechanically attached roof covering systems.

6.3 Installation is limited to installations where the roof covering does not involve hot asphalt or coal-tar pitch.

6.4 Installation is limited to use on areas of the roof where an ice barrier is required.

6.5 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayments.

6.6 Installation of underlayments for fire classification are limited to as described in Table 2 below, except where used in non-classified roofing.

6.7 The EpiStik™ self-adhered roofing underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Test Reports in accordance with ASTM E108 (UL 790).

7.2 Data in accordance with ASTM D1970 as set forth in ICC-ES Acceptance Criteria for Use as Ice Barriers (AC48), dated February 2012 (editorially revised December 2015).

7.3 Intertek Listing Report "Epilay - EpiStik™ Underlayments", on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The underlayments are identified with the manufacturer's name (Epilay Inc.), address and telephone number; the product name (EpiStik™ Plus, EpiStik™ SA-250, or EpiStik™ Ice & Water Synthetic Roofing Underlayment); the Intertek Mark; and the Code Compliance Research Report number (CCRR-1083).

9.0 OTHER CODES

9.1 Florida Building Code:

9.1.1 Scope of Evaluation: EpiStik™ Plus, EpiStik™ SA-250, and EpiStik™ Ice & Water Synthetic Roofing Underlayments were evaluated for compliance with the 2023 and 2020 *Florida Building Code – Building* and the 2023 and 2020 *Florida Building Code – Residential*.

9.1.2 Conclusion: The EpiStik™ Plus, EpiStik™ SA-250, and EpiStik Ice & Water Synthetic Roofing Underlayments described in Sections 2.0 to 7.0 of this report comply with the 2023 and 2020 *Florida Building Code – Building* and the 2023 and 2020 *Florida Building Code – Residential* including High-Velocity Hurricane Zones (HVHZ), subject to the following conditions:

- The underlayments must be installed in accordance with the provisions noted in Section 2.0 through 7.0 of this report, Sections 1507 and 1518 of the *Florida Building Code – Building*, and Section R905 of the *Florida Building Code – Residential*





- The underlayments may be used where underlayments complying with ASTM D1970 are permitted in TAS 110, as referenced in *Florida Building Code – Building* Section 1515.1.4
- Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*

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 <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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TABLE 1 – PROPERTIES EVALUATED

PROPERTY	2021 IBC SECTION	2021 IRC SECTION	2023 FBC SECTION (BUILDING)	2023 FBC SECTION (RESIDENTIAL)
Physical Properties	1506 and 1507	R904 and R905	1506 1507.1.1 1515.1.4 1518	R904 R905.1.1
Ice Barrier	1507	R905	N/A	N/A
Fire Classification	1505	R902.1	1505	R902

Section numbers may be different for earlier versions of the International and Florida Codes

TABLE 2 – FIRE CLASSIFICATION

CLASSIFICATION AND SLOPE	DECK	UNDERLAYMENT	ROOF COVERING
Class A 2:12 or greater	Minimum nominal 15/32 inch thick Code-compliant exterior grade plywood	One layer of Epilay EpiStik™ Plus, EpiStik™ SA-250, or EpiStik™ Ice & Water self-adhered synthetic roofing underlayment	Asphalt shingles Listed per ASTM D3462 with a minimum weight of 190 pounds per 100 square feet, installed per manufacturer's instructions and the Code.
Class A 2:12 or greater	Minimum 1/4 inch thick DensDeck installed over minimum nominal 3/8 inch thick Code-compliant exterior grade plywood	One layer of Epilay EpiStik™ Plus or EpiStik™ SA-250 self-adhered synthetic roofing underlayment	Minimum 29-gauge Code-compliant steel roof covering (any profile), installed per manufacturer's instructions and the Code.