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DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION

Section: 07 30 05 – Roofing Felt and Underlayment

REPORT HOLDER:

FT Synthetics Inc.
1 Campus Drive
Parsippany, NJ 07054
USA
(973) 329-9226

REPORT SUBJECT:

FT Synthetics Silver and Platinum Roofing Underlayments

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, and 2018 *International Building Code*® (IBC)
- 2024, 2021, and 2018 *International Residential Code*® (IRC)
- 2023 *Florida Building Code* (FBC) - Building and Residential Codes, including High-Velocity-Hurricane Zones (HVHZ) (see Section 9)
- 2025 and 2022 California Building Code (CBC) and 2025 and 2022 California Residential Code (CRC) (see Section 9)

NOTE: This report references the most recent Code editions noted. Section numbers in earlier editions may differ.

1.2 FT Synthetics Silver and Platinum underlayments have been evaluated for the following properties (see Table 1):

- Physical properties
- Fire classification
- Ice barrier

1.3 Synthetics Silver and Platinum underlayments have been evaluated for the following uses (see Table 1):

- Under the 2024 IBC and the underlayments may be used in the field of roofs where ASTM D8257 compliant underlayments are required as specified in IBC Chapter 15 and IRC Chapter 9.

- Under the 2021 and 2018 Codes, the underlayment may be used as an alternative to the ASTM D226, Type I and Type II, roofing underlayments specified in IBC Chapter 15 and IRC Chapter 9.
- In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier as described in Section 4.2 of this report.
- The underlayments may be used as a component of a classified assembly when installed as described in Section 4.1 of this report.

2.0 STATEMENT OF COMPLIANCE

FT Synthetics Silver and Platinum 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.

3.0 DESCRIPTION

FT Synthetics Silver is a mechanically attached synthetic underlayment comprised of an embossed non-woven top scrim and a woven bottom scrim with a polymeric laminated facer. The underlayment has an overall weight of 2.24 pounds per 100 square feet, and it is available in rolls 48 inches wide by 250 feet long.

FT Synthetics Platinum is a mechanically attached synthetic underlayment comprised of an embossed non-woven top scrim and a woven bottom scrim with a polymeric laminated facer. The underlayment has an overall weight of 3.37 pounds per 100 square feet, and it is available in rolls 48 inches wide by 250 feet long.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Fire Classification: When installed in accordance with the assembly described in Table 2 of this report, the roofing underlayment meets Class A fire classification per ASTM E108. Additionally, the underlayment may be used as follows:



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- As a component of a classified roof assembly when specifically recognized as such in a Listing Report approved by the Code official.
- As an alternative to the underlayment specified in the Code for roof coverings permitted under Exceptions 1 - 4 to IBC Section 1505.2 and Exceptions 1 - 4 to IRC Section R902.1.
- Where non-classified roofing is permitted in IBC Section 1505.5.

4.2 Ice barrier: In areas of the roof required by IBC Section 1507.1.2 or IRC Section R905.1.2 to have an ice barrier, two layers of the roofing underlayment solidly cemented together may be used provided the ice barrier extends up the roof a minimum distance of 24 inches inside the exterior wall line of the building.

4.3 Vapor Permeability: FT Synthetics Silver and Platinum underlayment has a permance of 0.05 perms, based on testing in accordance with ASTM E96.

5.0 INSTALLATION

5.1 General:

FT Synthetics Silver and Platinum 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.

The underlayment may be installed with the roof coverings specified in IBC Table 1507.1.1(1) and IRC Table R905.1.1(1), where ASTM D8257-compliant underlayments are permitted. The underlayment must be installed in accordance with IBC Table 1507.1.1(2) and IRC Table R905.1.1(2) and fastened in accordance with IBC Table 1507.1.1(3) and IRC Table R905.1.1(3). The underlayment must be laid with the print side up, with laps as required by the applicable Code, evaluation report, or manufacturer's instructions, whichever is more restrictive.

The roof covering may be installed immediately following the underlayment application and the underlayment must be covered within the time designated in the company name'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 roof systems that do not involve hot asphalt or coal-tar pitch.

6.4 Installation of underlayment with adhered roofing systems is outside the scope of this report.

6.5 Installation is limited to roofs with a slope of 2:12 (17%) or greater.

6.6 Attic ventilation must be provided in accordance with the applicable Code.

6.7 The Cobalt FRM underlayment is limited to buildings permitted to have non-classified roofing in accordance with IBC Section 1505.5, unless the underlayment is specifically recognized as a component of a classified roofing assembly in a listing approved by the Code official.

6.8 The underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM D8257 (except FT Synthetics Hydra) and ASTM E108 (except FT Synthetics Cobalt FRM).

7.2 Data in accordance with ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised December 2015).

7.3 Intertek Listing Report "[FT Synthetics Silver and Platinum Roofing Underlayments](#)" on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The FT Synthetics Silver and Platinum underlayments are identified with the manufacturer's name (FT Synthetics, Inc.), the product name (FT Synthetics Silver and Platinum the Intertek Mark as shown below, the Intertek Control Number





and the Code Compliance Research Report number (CCRR-1028).

9.0 SUPPORTING EVIDENCE

9.1 FLORIDA BUILDING CODE

The FT Synthetics Silver and Platinum underlayments, described in Sections 2.0 through 7.0 of this Research Report, comply with the *Florida Building Code – Building* and *Florida Building Code – Residential*, for the editions indicated in Section 1.1 of this report, subject to the following conditions:

9.1.1 For use outside HVHZ: the underlayment may be installed with the roof coverings specified in FBC (Building) Table 1507.1.1.1 and FBC (Residential) Table R905.1.1.1, where ASTM D8257-compliant underlayments are permitted. The underlayment must be installed in accordance with the provisions of FBC (Building) Section 1507 and FBC (Residential) R905.

When installed as described in Table 2 of this report, the roofing assembly meets Class A fire classification per ASTM E108. Additionally, the underlayment may be used as follows:

- As a component of a classified roof assembly when specifically recognized as such in a Listing Report approved by the Code official.
- As an alternative to the underlayment specified in the Code for roof coverings permitted under Exceptions 1 - 4 to FBC (Building) Section 1505.2 and Exceptions 1 - 4 to FBC (Residential) Section R902.1.
- Where non-classified roofing is permitted in FBC (Building) Section 1505.5.

9.1.2 For use inside HVHZ, the underlayment may be installed with the roof coverings specified in FBC (Building) Table 1518.2.1, where ASTM D8257-compliant underlayments are permitted. The underlayment must be installed in accordance with the provisions of FBC (Building) Section 1518. Evaluation for use with discontinuous roof tile systems in HVHZ is outside the scope of this report.

When installed as described in Table 2 of this report, the roofing assembly may be used where Class A fire classification is required in FBC (Building) Section 1516.2.1. Additionally, the underlayment may be used with roof coverings permitted under the Exception to FBC (Building) Section 1516.2.1.

Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – Product Evaluation and Approval.

9.2 California Building Code and California Residential Code:

9.2.1 Scope of Evaluation: The FT Synthetics Silver and Platinum underlayments were evaluated for compliance with the 2025, and 2022 *California Building Code* and 2025, and 2022 *California Residential Code*

9.2.2 Conclusion: The FT Synthetics Silver and Platinum underlayments described in Section 2.0 through 7.0 of this report comply with the 2025, and 2022 *California Building Code* and 2025, and 2022 *California Residential Code*

9.2.2.1 The underlayments have not been evaluated under the 2025 *California Wildland-Urban Interface Code* or the 2022 *California Building Code* Chapter 7A or 2022 *California Residential Code* Section R337, for use in the exterior design and construction of new buildings located within a Wildland-Urban Interface Fire Area.

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.





TABLE 1 - PROPERTIES EVALUATED

PROPERTY	APPLICABLE CODE SECTIONS ¹					
	2024 IBC	2024 IRC	2023 FBC (BUILDING)	2023 FBC (RESIDENTIAL)	2025 CBC	2025 CRC
Physical Properties	1507	R905	1507, 1518.2	R904, R905	1506, 1507	R904, R905
Fire Classification	1505	R902.1	1505 1516.2	R902	1505	R902.1
Ice Barrier	1507.1.2	R905.1.2	N/A	N/A	1507	R905

¹Section numbers pertain to the most recent edition cited in Section 1.1 of this Report

TABLE 2 – FIRE CLASSIFICATION

Classification and Slope	Deck	Underlayment	Roof Covering
Class A 2:12 or greater	Minimum nominal 15/32 in. thick Code compliant exterior grade plywood	A single later of FT Synthetics Silver or Platinum underlayment mechanically fastened to the plywood sheathing every 12-inch oc in the field and on the perimeter using plastic cap nails.	Asphalt shingles Listed per ASTM D3462 with a minimum weight of 190 pounds per 100 square feet installed per manufacturer's installation instructions

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