



LISTING INFORMATION OF
**FT Synthetics PRO-20, Silver, Gold, Platinum and Hydra
Roofing Underlayments**
SPEC ID: 34424

FT Synthetics, Inc.
26977 56 Ave
Langley, BC V4W 3Y2
Canada

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

LISTING INFORMATION

FT Synthetics PRO-20 is a mechanically attached synthetic underlayment comprised of a plain 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 42 inches wide by 286 feet long. PRO-20 underlayment may also be labeled as Syntrack.

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 Gold 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 3.06 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.

FT Synthetics Hydra roofing underlayment is comprised of embossed non-woven top and bottom scrims with a laminated layer in between the scrims. The underlayment has an overall weight of 3.7 pounds per 100 square feet and is available in blue color. Standard size roll is 48 inches wide by 250 feet long.

PHYSICAL RATINGS

PRODUCT	TEST METHOD	TEST PROCEDURE	RESULTS
FT Synthetics PRO-20, Syntrack, Silver, Gold and Platinum Underlayments	ASTM D226	Unroll-ability	Meets Type II
		Breaking Strength	Meets Type II
		Pliability	Meets Type II
		Loss on Heating	Meets Type II
FT Synthetics PRO-20, Syntrack, Silver, Gold and Platinum Underlayments	CSA A123.3	Unroll-ability	Meets Type 3
		Breaking Strength	Meets Type 3
		Pliability	Meets Type 3
		Loss on Heating	Meets Type 3
		Liquid water transmission	Meets Type 3
FT Hydra Underlayment	CSA A123.3	Unroll-ability	Meets Type 2
		Breaking Strength	Meets Type 2
		Pliability	Meets Type 2
		Loss on Heating	Meets Type 2
		Liquid water transmission	Meets Type 2

FIRE CLASSIFICATION

Class A Assemblies

Assembly No.	E108-RFU-34424
Slope:	2:12 or greater
Deck Type:	Combustible
Details:	<ul style="list-style-type: none"> - Minimum nominal 3/8" thick Code Compliant exterior grade plywood - A single layer of FT Synthetics PRO, Syntrack, Silver, Gold, Platinum, or Hydra 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.

CODE COMPLIANCE RESEARCH REPORT

EVALUATION METHOD	BUILDING CODE	CCRR Number
ICC-ES AC188	2018, 2015, and 2012 IBC 2018, 2015, and 2012 IRC 2020 FBC 2019 CBC	CCRR-1028

The underlayments are also under a Quality Assurance program for the following programs:

Product	Product Approval No.
FT Synthetics Silver, Gold, Hydra and Platinum Underlayments	FL # 20853
PRO-20	FL # 22692

Attribute	Value
Certificate Date of Expiry	November 6, 2025
Certificate Date of Initial Registration	November 6, 2020
Certificate Number	WHI20 - 25886004
Code Reports	Yes
Criteria	ASTM E108 (2011)
Criteria	ICC-ES AC188 (2015)
CSI Code	07 30 05 Roofing Felt and Underlayment
Intertek Services	Certification

Listed or Inspected	LISTED
Listing Section	ROOFING MATERIALS
Spec ID	34424

Issue Date: 11-06-2014
Revision Date: 07-22-2021
Renewal Date: 01-31-2022

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

REPORT HOLDER:
FT Synthetics Inc.
26977 – 56 Avenue
Langley City, B.C. V4W 3Y2
Canada
(604) 594-3439
www.ftsyn.com

REPORT SUBJECT:
FT Synthetics PRO-20, Syntrack, Silver, Gold, Platinum, and Hydra Synthetic Breathable (Hydra) Roofing Underlayments

1.0 SCOPE OF EVALUATION

This Research Report addresses compliance with the following Codes:

- 2018, 2015, and 2012 *International Building Code*® (IBC)
- 2018, 2015, and 2012 *International Residential Code*® (IRC)
- 2020 *Florida Building Code*
- 2019 *California Building Code*

2.0 USES

FT Synthetics PRO-20, Syntrack, Silver, Gold, Platinum, and Hydra underlayments are used in the field of the roof as an alternative to the ASTM D226, Type I and Type II, roof underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

The underlayments may be used in areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier roof underlayment, when installed as noted in Section 4.2.

The underlayments may be used as components of classified assemblies when installed as described in this report.

The underlayments have been evaluated for properties listed in Table 1.

3.0 DESCRIPTION

FT Synthetics PRO-20 is a mechanically attached synthetic underlayment comprised of a plain 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 42 inches wide by 286 feet long. PRO-20 underlayment may also be labeled as Syntrack.

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 Gold 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 3.06 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.

FT Synthetics Hydra roofing underlayment is comprised of embossed non-woven top and bottom scrims with a laminated layer in between the scrims. The underlayment has an overall weight of 3.7 gsm and is available in blue color. Standard size roll is 48 inches wide by 250 feet long.



4.0 INSTALLATION

4.1 General:

Installation of the underlayments must comply with the applicable Code, this report, and the report holder's published installation instructions.

The underlayments must be installed in accordance with the subsections of IBC Section 1507 and IRC Section R905 applicable to the roof covering being installed. The underlayments 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 report holder's published installation instructions.

4.2 Ice Barrier:

In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier, two layers of the underlayments, solidly cemented together with a low solvent based roofing cement complying with ASTM D4586 Type 1 (asbestos free), may be used provided the ice barrier extends up the roof a minimum distance of 24 inches inside the interior wall line of the building. The underlayment installed in the field of the roof must overlap the ice barrier.

4.3 Fire Classification:

The roof underlayments may be used as a component of a classified roof assembly when specifically recognized as such in a listing approved by the Code official. The underlayments may also be used as an alternative to the underlayments specified in the Code for roof coverings permitted under the Exceptions to IBC Section 1505.2 and IRC Section R902.1 and may be used where non-classified roofing is permitted in IBC Section 1505.5.

5.0 CONDITIONS OF USE

The underlayments described in this Research Report comply with, or are suitable alternatives to, what is specified in those Codes listed in Sections 1.0 and 2.0 of this report, subject to the following conditions:

5.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.

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

5.3 Installation is limited to roof systems that do not involve hot asphalt or coal-tar pitch.

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

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

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

6.0 SUPPORTING EVIDENCE

6.1 Reports of tests in accordance with ASTM E108.

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

6.3 Intertek Listing Report titled [FT Synthetics – PRO, Silver, Gold, Platinum and Hydra Roofing Underlayments](#).

7.0 IDENTIFICATION

The FT Synthetics PRO-20, Syntrack, Silver, Gold, Platinum, and Hydra underlayments are imprinted with the report holder's name, the Intertek Mark, and the Code Compliance Research Report number (CCRR-1028). Each roll of the product is also labeled with installation instructions, roll dimensions, and weight.





8.0 OTHER CODES

8.1 Florida Building Code:

8.1.1 Scope of Evaluation: The FT Synthetics PRO-20, Syntrack, Silver, Gold, Platinum, and Hydra underlayments were evaluated for compliance with the 2020 *Florida Building Code – Building* and the 2020 *Florida Building Code – Residential*.

8.1.2 Conclusion: The FT Synthetics PRO-20, Syntrack, Silver, Gold, Platinum, and Hydra underlayments described in Sections 2.0 to 8.0 of this report comply with the 2020 *Florida Building Code – Building* and the 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 Sections 2.0 through 8.0 of this report, Sections 1507 and 1518 of the *Florida Building Code – Building*, and Section R905 of the *Florida Building Code – Residential*
- Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*
- Evaluation of use in discontinuous roof tile systems is outside the scope of this report

8.2 California Building Code:

8.2.1 Scope of Evaluation: The FT Synthetics PRO-20, Syntrack, Silver, Gold, Platinum, and Hydra underlayments were evaluated for compliance with the 2019 *California Building Code* and 2019 *California Residential Code*.

8.2.2 Conclusion: The FT Synthetics PRO-20, Syntrack, Silver, Gold, Platinum, and Hydra underlayments described in Section 2.0 through 8.0 of this report comply with the 2019 *California Building Code* and 2019 *California Residential Code*.

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

9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1 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.

9.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek Testing.

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

This Code Compliance Research Report ("Report") is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Report. Only the Client is authorized to permit copying or distribution of this Report and then only in its entirety, and the Client shall not use the Report in a misleading manner. Client further agrees and understands that reliance upon the Report is limited to the representations made therein. The Report is not an endorsement or recommendation for use of the subject and/or product described herein. This Report is not the Intertek Listing Report covering the subject product and utilized for Intertek Certification and this Report does not represent authorization for the use of any Intertek certification marks. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.





TABLE 1 – PROPERTIES EVALUATED

PROPERTY	INTERNATIONAL BUILDING CODE SECTION	INTERNATIONAL RESIDENTIAL CODE SECTION	FLORIDA BUILDING CODE – BUILDING SECTION	FLORIDA BUILDING CODE – RESIDENTIAL SECTION	CALIFORNIA BUILDING CODE SECTION	CALIFORNIA RESIDENTIAL CODE SECTION
Physical Properties	104.11, 1506, and 1507	R104.11, R904, and R905	104.11 and 1507	R904 and R905	104.11, 1506, and 1507	R104.11, R904, and R905
Fire Classification	1505	R902.1	1505	R902	1505	R902.1
Ice Barrier	1507	R905	N/A	N/A	1507	R905

Referenced sections apply to the latest Code editions referenced in Section 1.0 of this report.

