Code Compliance Research Report
CCRR-0590

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

REPORT HOLDER:
Innoflex Synthetics Ltd.
3855 Mt Lehman Rd.
Abbotsford, B.C. V2T 5W5
Canada
www.innoflexsyn.com

REPORT SUBJECT:
Innoshield and Innoshield Plus Synthetic 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)

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

1.2 Innoshield and Innoshield Plus Roofing Underlayments have been evaluated for the following properties (see Table 1):

- Physical properties
- Ice barrier

1.3 Innoshield and Innoshield Plus Roofing Underlayments have been evaluated for the following uses (see Table 1):

- Under the 2024 IBC and IRC, 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 underlayments 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.
- Use is limited to buildings permitted to have non-classified roofing in accordance with IBC Section 1505.5

2.0 STATEMENT OF COMPLIANCE

Innoshield and Innoshield Plus 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.

2.1 2024 IBC and IRC Evaluation Reports

The Intertek CCRR is an *Evaluation Report* for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

3.0 DESCRIPTION

3.1 Innoshield and Innoshield Plus are mechanically attached, four-layered synthetic roofing underlayments, comprised of a non-woven fabric on the exposed side, sandwich coating layer, woven scrim, and a back coating layer on the sheathing side. Their nominal weights are 2.17 and 2.87 pounds per 100 square feet, respectively. The standard roll size is 4 feet wide by 250 feet long, or as

required. These are also available in different colors as required.

4.0 PERFORMANCE CHARACTERISTICS

4.1 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.

4.2 Vapor Permeability: Innoshield and Innoshield Plus Roofing Underlayments have a permeance of 0.05 perms, based on testing in accordance with ASTM E96.

5.0 INSTALLATION

5.1 General: Innoshield and Innoshield Plus 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.

The underlayments 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 underlayments 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 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 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 of underlayment with adhered roofing systems is outside the scope of this report.

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

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

6.5 The underlayments are 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.

6.6 The Innoshield and Innoshield Plus Roofing 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 demonstrating compliance with ASTM D8257-20.

7.2 For 2021 and older Codes, data in accordance with ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised December 2015).

7.3 Intertek Listing Report "Innoshield and Innoshield Plus Synthetic Roofing Underlayments", on the Intertek Directory of Building Products.

8.0 IDENTIFICATION

The Innoshield and Innoshield Plus Synthetic Roofing Underlayments are identified with the manufacturer's name (Innoflex Synthetics Ltd.), the product name (Innoshield and Innoshield Plus), the Intertek Mark as shown below, the Intertek Control Number, and the Code Compliance Research Report number (CCRR-0590).

9.0 OTHER CODES

9.1 Florida Building Code: The Innoshield and Innoshield Plus Roofing 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 underlayments 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.

9.1.2 For Use Inside HVHZ: The underlayments 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.

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 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]			
	IBC	IRC	FBC (BUILDING)	FBC (RESIDENTIAL)
Physical Properties	1507	R905	1507 1518.2	R904 R905
Ice Barrier	1507.1.2	R905.1.2	N/A	N/A

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