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Code Compliance Research Report CCRR-1035

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

REPORT HOLDER:
Innovative Construction Materials (SH) Ltd.
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REPORT SUBJECT:
MaxFelt™ I, MaxFelt™ II, MaxFelt™ 30, and MaxFelt™ XT Roofing Underlayments

1.0 SCOPE OF EVALUATION

This Research Report addresses compliance with the following Codes:

- 2015, 2012, and 2009 *International Building Code®* (IBC)
- 2015, 2012, and 2009 *International Residential Code®* (IRC)

2.0 USES

MaxFelt™ I, MaxFelt™ II, MaxFelt™ 30, and MaxFelt™ XT underlayments are used in the field of the roof as an alternative to 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 roof underlayments are limited to buildings permitted to have non-classified roofing in accordance with IBC Section 1505.5.

The underlayments have been evaluated for the following properties:

PROPERTY	IBC SECTION ¹	IRC SECTION ¹
Physical Properties	104.11, 1506, and 1507	R104.11, R904, and R905
Ice Barrier	1507	R905

¹ Referenced sections apply to 2015, 2012, and 2009 IBC and IRC.

3.0 DESCRIPTION

MaxFelt™ I and MaxFelt™ 30 are mechanically attached synthetic underlayments comprised of a woven scrim and polymeric coating on each side. The underlayment has an overall weight of 2.8 pounds per 100 square feet, and it is available in rolls 48 inches wide by 125 feet or 250 feet long.

MaxFelt™ II is a mechanically attached synthetic underlayment comprised of a non-woven scrim with a non-woven polymeric sheet on both sides of the scrim. The underlayment has an overall weight of 4.4 pounds per 100 square feet, and it is available in rolls 48 inches wide by 125 feet or 250 feet long.

MaxFelt™ XT is a mechanically attached synthetic underlayment comprised of a woven scrim and polymeric coating on each side. The underlayment has an overall weight of 1.9 pounds per 100 square feet, and it is available in rolls 48 inches wide by 125 feet or 250 feet long. MaxFelt™ XT underlayment may also be labeled as MaxFelt™ 15.

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 underlayments must be covered within the time designated in the report holder's published installation instructions.



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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.

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 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 limited to structures where non-classified roof coverings are permitted or as a component of a classified roofing assembly when specifically recognized as such in a listing approved by the Code Official.

5.7 The underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA Inc. (AA-647).

6.0 SUPPORTING EVIDENCE

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

6.2 Intertek Listing Report ["Innovative Construction Synthetic Roof Underlayments"](#).

7.0 IDENTIFICATION

The MaxFelt™ I, MaxFelt™ II, MaxFelt™ 15, MaxFelt™ 30, and MaxFelt™ XT underlayments are directly imprinted with product name, company name, the Intertek Mark, Code Compliance Research Report number (CCRR-1035), lap lines, and fastener locations. Each roll of the product is also labeled with product name, company name and installation instructions.

8.0 OTHER CODES

This section is not applicable.

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.

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

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