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

REPORT HOLDER:
FABRENE INC.

EVALUATION SUBJECT:
MATRIX XL™ AND DECK-ARMOR ROOFING UNDERLAYMENTS

1.0 EVALUATION SCOPE
Compliance with the following codes:

Property evaluated:
- Physical properties
- Fire Classification

2.0 USES
Matrix XL™ and Deck-Armor roofing underlayments are alternatives to ASTM D226, Type I and Type II, roofing underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC. The roof underlayments are also used as components of classified roofing assemblies when installed as described in Section 4.5 of this report.

3.0 DESCRIPTION
Matrix XL™ and Deck-Armor roof underlayments are identical and are comprised of two nonwoven polypropylene sheets laminated together and coated with a polymer coating. The underlayments are grey in color on the top surface, have a nominal weight of 3.7 pounds per 100 square feet (0.18 kg/m²) and are produced in rolls of varying size.

4.0 INSTALLATION
4.1 General:
Installation must comply with the requirements of the applicable code, this report and the report holder’s published installation instructions. In the event of conflict between the report holder’s instructions and this report, this report governs. The installation instructions must be available at the jobsite during installation.

Prior to application of the underlayment, the deck surface must be free of dust and dirt, loose nails, and other protrusions. Damaged sheathing must be replaced.

Installation of an approved roof covering can proceed immediately following application of the roofing underlayment. The underlayment must be covered by the roof covering within the time period set forth in the report holder’s published installation instructions. For reroofing applications, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

4.2 Underlayment Application:
The underlayment is laid horizontally (parallel to the eave) starting at the lowest eave point, printed side up, with 4-inch (102 mm) horizontal (head) laps and 6-inch (152 mm) vertical (end) laps. Overlaps must run with the flow of water in a shingling manner. The underlayment is attached to the roof deck as set forth in the manufacturer’s published installation instructions, except in areas subject to high winds where underlayment fastening must comply with the high wind attachment requirements specified in IBC Section 1507 or IRC Section R905. When battens or counterbattens are installed over the underlayment, the underlayment need only be preliminarily attached pending attachment of the battens or counterbattens.

The minimum roof slope to which the underlayment is installed and the minimum number of layers of underlayment must comply with the applicable requirements set forth in IBC Chapter 15 or IRC Chapter 9, as applicable, based upon the type of roof covering being installed over the underlayment.

4.3 Ice Barrier:
In areas of the roof required to have an ice dam membrane under Chapter 15 of the IBC or Chapter 9 of the IRC, an approved ice dam membrane must be applied over the solid substrate in sufficient courses so that the underlayment extends up from the edge of eave to a point at least 24 inches (610 mm) inside the exterior wall line. The roofing underlayment, in the field of the roof, overlaps the ice dam membrane.

4.4 Flashing:
Flashing must be in accordance with the applicable code. Flashing around protrusions must be over the lower course of the underlayment, to prevent water backup. When used,
metal drip edges must be installed beneath the underlayment at the eaves and over the underlayment at rakes.

4.5 Fire Classification:

The roofing underlayment may be used as a component of a classified roof assembly consisting of Class A or Class C glass fiber mat shingle or Class C asphalt organic shingle complying with the applicable code, when installed in accordance with this report over a minimum 3/8-inch-thick (9.5 mm) plywood deck.

Under the 2018, 2015, 2012, 2009 and 2006 IBC, the underlayments may be used in Class A roof assemblies that include the roof coverings specified in the exceptions to IBC Section 1505.2. Under the 2006 IBC, the underlayments may be used in Class B roof assemblies that include the roof coverings specified in the exception to Section 1505.3.

Under the 2018, 2015, 2012 and 2009 IRC, the underlayments may be used in Class A roof assemblies that include the roof coverings specified in the exceptions to Section R902.1. Under the 2006 IRC, the underlayments may be used with the Class A roof assemblies that include the roof coverings specified in Section R902.1.

5.0 CONDITIONS OF USE

The Matrix XL™ and Deck-Armor roofing underlayments described in this report comply with, or are a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The installation complies with the applicable code, this report and the report holder’s published installation instructions. In the event of a conflict between the report holder’s published installation instructions and this report, this report governs.

5.2 Installation is limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.

5.3 Installation is limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.

5.4 Installation is limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.

5.5 The product is manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012 (editorially revised May 2018).

6.2 Report of testing in accordance with ASTM E108 (UL 790).

7.0 IDENTIFICATION

7.1 Each roll of the Matrix XL™ and Deck-Armor roofing underlayments described in this report are marked at regular intervals with the company name (Fabrene Inc.), the product name, the roll number and the evaluation report number (ESR-2438).

7.2 The report holder’s contact information is the following:

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