

ICC-ES Evaluation Report

ESR-1739

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DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION Section: 07 30 05— Roofing Felt and Underlayment	REPORT HOLDER: PGI FABRENE INC.	EVALUATION SUBJECT: MATRIX UL™ ROOFING UNDERLAYMENT (ALSO KNOWN AS RESISTOR PLUS™ OR FABRENE UDL™ ROOFING UNDERLAYMENT)	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 International Building Code[®] (IBC)
- 2006 International Residential Code[®] (IRC)

Property evaluated:

Physical properties

2.0 USES

MATRIX UL[™] is a roofing underlayment intended for use as an alternative to the ASTM D226, Type I and Type II, roofing underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC.

3.0 DESCRIPTION

MATRIX UL[™] roofing underlayment is a nonwoven, polyethylene-based, sheet-type material. The underlayment is gray in color on the exposed side and white on the nonexposed side. The underlayment has an average weight of 4.6 ounces per square yard (0.157 kg/m²) and a nominal thickness of 18 mils [0.018 inches (0.457 mm)] and is produced in 60-inch-wide-by-200-foot-long (1524 mm by 60.9 m) rolls.

4.0 DESIGN AND INSTALLATION

Installation of MATRIX UL[™] roofing underlayment must comply with this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite during installation.

Prior to application, the deck surface must be free of dust and dirt, loose nails, and other protrusions. Damaged sheathing must be replaced. The underlayment must be laid horizontally (parallel to the eave) starting at the lowest eave point, printed side up, with 3-inch (76 mm) horizontal (head) laps and 6-inch (152 mm) vertical (end) laps. Overlaps must run with the flow of water in a shingling manner.

In areas of the roof required to have an ice barrier under Chapter 15 of the IBC or Chapter 9 of the IRC, two layers of the underlayment must be cemented together with a low-solvent-based roofing cement complying with ASTM D4586 (asbestos- free), for a minimum distance inside the exterior wall line of the building as specified by the applicable code. The MATRIX UL[™] roofing underlayment, in the field of the roof, must overlap the ice dam protection.



Installation of an approved roof covering can proceed immediately following application of the roofing underlayment. The underlayment must be covered by the roof covering as soon as possible. For reroofing applications, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

5.0 CONDITIONS OF USE:

The Matrix UL[™] roofing underlayment described in this report complies with, or is 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** Installation must comply with the applicable code, the conditions of this report and the manufacturer's published installation instructions. In the event of conflict between the manufacturer's instructions and this report, this report must govern.
- **5.2** Installation must be limited to use on structures located in areas where nonclassified 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.
- 5.3 Installation must be limited to roofs with a slope of 2:12 (16.67%) or greater.
- 5.4 Installation must be limited to use with roof coverings that do not involve hot asphalt or coal-tar pitch.
- **5.5** Installation must be limited to use with approved roof coverings that are mechanically fastened through the underlayment to the sheathing or rafters.
- **5.6** Installation must be limited to roofs with ventilated attic spaces in accordance with the requirements of the applicable code.
- **5.7** The product is manufactured in North Bay, Ontario, Canada, under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

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

7.0 IDENTIFICATION

- 7.1 The MATRIX UL[™] roofing underlayment described in this report is marked with the manufacturer's name (PGI Fabrene Inc.) and address, the name of the product, the date of manufacture, and the evaluation report number (ESR-1739).
- 7.2 The report holder's contact information is the following:

PGI FABRENE INC. POST OFFICE BOX 4040 NORTH BAY, ONTARIO P1B 9B4 CANADA (705) 476-7057 www.fabrene.com