

MATRIX UL™

1. Description

- **MATRIX UL™** is manufactured by **Fabrene Inc.**, a **PGI company**.
- **MATRIX UL™** underlayment, when installed correctly serves as an integral part in the roofing assembly.
- The product a polyolefin-based non-woven membrane, with the walking side coated grey in colour, comes in rolls 1525 mm's (60") wide and in lengths of 200 ft.
- **MATRIX UL™** has a limited slip surface designed into the product as a safety feature.
- The material incorporates a grid pattern for ease of installation (patent pending).
- **MATRIX UL™** is climate and weather resistant, and 9 times lighter than 30# felt.
- **MATRIX UL™** has 40% greater nail pullout than 30# felt.

2. Usage and Limitations

MATRIX UL™ material has a low moisture transmission, is non-porous and must be:

- Installed with the printed side facing up.
- Protected from exposure to ultraviolet radiation from the sun within 60 days of installation. (**MATRIX UL™** does contain some limited UV protection and is warranted against exposure to sunlight for a period of 6 months but should be protected against long-term exposure).
- Installed according to PGI Fabrene Inc. instructions for **MATRIX UL™** for residential applications (installation details are detailed in paragraph 4) and in accordance with the National Building Code section 9.26 Roofing for Housing and Small Buildings.
- Installed as detailed in CAN/CSA-A220.1M91 Section 6. Underlayment System for Concrete Roofing Tile.

Note: **MATRIX UL™** is for use as a roofing underlayment only.

3. Performance

MATRIX UL™ was tested at an independent laboratory and is summarised in the following chart. This product meets all requirements for International Code Council and Miami-Dade.

4. Preparation and installation details

1. The roof decking firstly should be swept clean before any of the underlayment material installation takes place.
2. The surface must be smooth with all sharp edges or protrusions repaired/removed, i.e. nails & staples.
3. A dry surface is best for the installation both for performance and safety.
4. **MATRIX UL™** is installed with the printed side facing up and parallel to the eaves of the structure.
5. Any head laps should be a minimum of 102 mm's or 4 inches and end laps a minimum of 152 mm's or 6 inches.
6. In each valley and hip, lay a single layer of **MATRIX UL™** vertically for added protection.
7. All abutments should have **MATRIX UL™** overlapped by 12 inches (305 mm's) and later trimmed to suit.
8. **MATRIX UL™** does contain some UV stabilisation properties but is not intended for prolonged exposure to high UV sunlight.
9. The tile or shingle covering should be installed within 60 days of the underlay installment.
10. **MATRIX UL™** is typically attached to the roof with roofing nails having 1.0" diameter

plastic or metal caps spaced at 6.0" on centre and 1.0" from the edge with a repeat every 24". Please refer to the sketch titled **MATRIX UL™ Nailing Pattern**.

11. Roofing nails without plastic caps can be used to fasten **MATRIX UL™** but are recommended for areas of low wind velocity only.
12. Pneumatic staple guns are not recommended for use with **MATRIX UL™**.
13. Although **MATRIX UL™** has a limited slip surface designed into the product as a safety feature, always use standard construction practices and follow established safety rules that may apply locally for overhead and roof work.

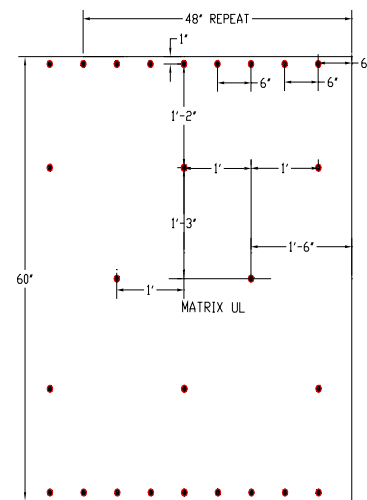
5. MATRIX UL™ components and features

- **MATRIX UL™** material, when installed correctly serves as an integral part in the roofing assembly.
- The product is 0.47 mm thick and comes in rolls 1525 mm's (60") wide and in lengths of 200 ft.
- **MATRIX UL™** has a limited slip surface designed into the product as a safety feature.
- As an additional feature **MATRIX UL™** material incorporates a patent pending grid pattern for ease of installation.
- **MATRIX UL™** is climate and weather resistant, will not crack in low temperatures and is 9 times lighter than 30# felt.
- **MATRIX UL™** has 40% greater nail pullout than 30# felt.

MATRIX UL™ as seen below has a grid pattern incorporated to assist with alignment (both underlayment and shingles or tiles) and reduce overall costs by speeding up the installation process.



6. MATRIX UL™ Nailing Pattern:



Note: Drawing is not to scale and is intended for information purposes only.