



## MECHANICALLY ATTACHED ROOFING SYSTEM

The VersiGard® Mechanically Attached Roofing System incorporates either 45-mil or 60-mil reinforced time-tested EPDM membrane.

### Features and Benefits

- The completed assembly is easily inspected, a key for a sound maintenance program.
- Easily installed over a variety of substrates.
- Reinforced EPDM is lightweight and enables larger sheet widths between fastening thus lowering installation costs.
- Offers excellent fatigue, puncture and tear resistance.
- UL Class A, B and universal slope ratings are available.
- Can achieve FM 1-60 and 1-90 wind uplift rating.
- 5-year to 30-year No Dollar Limit Total System Warranty Coverage is available.
- A warranted system is installed by an Authorized Versico Roofing Contractor. A completed warranted system is inspected by a trained Versico Field Service Representative to ensure conformance with Versico specifications.



A SINGLE SOURCE FOR SINGLE-PLY ROOFING

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## VERSIGARD .045" & .060" REINFORCED EPDM

### Typical Properties and Characteristics

| Physical Property   | Test Method               | SPEC. (Pass)             | Standard                 | FR                       |
|---|---------------------------|--------------------------|--------------------------|--------------------------|
| Tolerance on Nominal Thickness, %   | ASTM D751                 | ±10                      | ±10                      | ±10                      |
| Thickness Over Scrim, min, in. (mm)   | ASTM D4637 Annex          | 0.015 (0.381)            | 0.016 (0.406)            | 0.016 (0.406)            |
| .045  |                           | 0.015 (0.381)            | 0.020 (0.508)            | 0.020 (0.508)            |
| .060  |                           |                          |                          |                          |
| Weight, lbm/ft <sup>2</sup> (kg/m <sup>2</sup> )  |                           |                          |                          |                          |
| .045  |                           |                          | 0.24 (1.2)               | 0.27 (1.3)               |
| .060  |                           |                          | 0.34 (1.7)               | 0.39 (1.9)               |
| Breaking Strength, min, psi (N)   | ASTM D751                 | 90 (400)                 | 180 (800)                | 180 (800)                |
| Elongation, Ultimate, min, %  | ASTM D412 Die C           | 250**                    | 480**                    | 480**                    |
| Tearing Strength, min, lbf/in (N)   | ASTM D751 (B Tongue Tear) | 10 (45)                  | 30 (132)                 | 30 (132)                 |
| Brittleness Point, max, deg. F (deg. C)*  | ASTM D2137                | -49 (-45)                | -60 (-51)                | -60 (-51)                |
| Resistance to Heat Aging*<br>Properties after 4 weeks @ 240°F (116°C)   | ASTM D573                 |                          |                          |                          |
| Breaking Strength, min, psi (N)   | ASTM D412 Die C           | 80 (355)                 | 200 (890)                | 200 (890)                |
| Elongation, Ultimate, min, %  | ASTM D751                 | 200**                    | 250**                    | 250**                    |
| Linear Dimensional Change, max, %   | ASTM D1204                | ±1.0                     | -0.7                     | -0.7                     |
| Ozone Resistance*<br>Condition after exposure to 100 pphm<br>Ozone in air for 168 hours @ 104°F (40°C)<br>Specimen wrapped around 3" mandrel                                    | ASTM D1149                | No Cracks                | No Cracks                | No Cracks                |
| Resistance to Water Absorption*<br>After 7 days immersion @ 158°F (70°C)<br>Change in mass, max, %  | ASTM D471                 | +8, -2**                 | 2.0**                    | 2.0**                    |
| Factory Seam Strength, min  | ASTM D816 modified        | Membrane Rupture         | Membrane Rupture         | Membrane Rupture         |
| Resistance to Outdoor (Ultraviolet) Weathering*<br>Xenon-Arc, 7560 kJ/m <sup>2</sup> total radiant exposure at 0.70 W/m <sup>2</sup> irradiance, 176°F (80°C) Black Panel Temp. | ASTM D4637 Conditions     | No Cracks<br>No Cracking | No Cracks<br>No Cracking | No Cracks<br>No Cracking |

\* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.

\* See Technical Data Bulletin for Reinforced Typical Properties & Characteristics.



|                           | NEW CONSTRUCTION   |  |  |   |   |  | RE-ROOFING                  |                    |                     |
|---------------------------|--|--|--|---|---|--|-----------------------------|--------------------|---------------------|
| Existing or New Deck Type | Steel  | Plywood or OSB   | Wood Planks  | Gypsum & Fibrous Cement                   | Lightweight Concrete                      | Structural Concrete                        | Smooth-Surface BUR          | Gravel-Surface BUR | Existing Single-Ply |
| Insulation Required       | Insulation   | None   | None   | MP Safeguard Mat                          | None                                      | MP Safeguard Mat                           | MP Safeguard Mat            | Insulation         | Insulation          |
| Recommended Insulation    | Polyiso, Wood Fiberboard, Wood Fiberboard over Polystyrene               |  |  |   |   |  | ← Refer to New Construction |                    |                     |
| Insulation Attachment     | Acceptable Versico Fasteners and Plates; Refer to Versico Specifications |  |  |   |   |  | ← Refer to New Construction |                    |                     |
| Membrane Attachment       | HPV Fasteners & Versico Polymer Seam Plates                              | HPV Fasteners & Versico Polymer or Seam Fastening Plates | HPV Fasteners & Versico Polymer or Seam Fastening Plates | Versico Lt. Wt. Fasteners & Plates or NTB | Versico Lt. Wt. Fasteners & Plates or NTB | Versico Concrete Spike or MP w/ Seam Plate | ← Refer to New Construction |                    |                     |