

TECHNICAL INFORMATION SHEET

RubberGard™ EcoWhite™ EPDM PT Membrane

Item Description

10' x 100'
16' 8" x 100'
20' x 100'

Item Number

W56BLT61010
W56BLT61610
W56BLT6201F

Product Information

Description:

Firestone RubberGard EcoWhite EPDM PT membrane is non-reinforced white EPDM membrane with 3" (76 mm) wide QuickSeam™ tape factory laminated continuously along lengthwise edge of the panel. The factory-applied tape assists and accelerates field installation of EcoWhite membrane in fully adhered applications.

Preparation of Substrate:

1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
2. All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.

Method of Application:

1. Prepare the substrate to receive the EcoWhite PT membrane per current Firestone Building Products specifications.
2. Unroll and position the EcoWhite PT membrane so field seams form in shingle fashion, not "bucking" water, with finished lap edges facing down slope. Allow EcoWhite PT membrane to relax. EcoWhite PT membrane used in adhered systems should be fully adhered prior to making field seams.
3. After membrane has bonded fold back the top portion of the field seam, exposing the bottom surface of the field seam. Prime the membrane field seam area to receive tape with an acceptable Firestone primer utilizing QuickScrubber™ or QuickScrubber Plus pad and handle using a minimum of four back and forth motions with heavy pressure. Extra scrubbing should be done at factory seams (including parallel scrubbing at factory seams) and areas of heavy dusting agent buildup. Allow primer to dry completely. When primer is ready to receive tape, position the top portion of the field seam (with pre-applied tape and release liner in place) over the primed area. Remove the release liner from the pre-applied tape, pulling the liner at about the same level as the seam so all seam elements mate evenly. Roll the freshly mated field seam using QuickRoller™ or 1½" (38 mm) wide silicone hand roller to promote and ensure proper adhesion.
4. Field seams along the panel widths, and cut/trimmed membrane edges, shall be completed per current specifications and details using QuickSeam Tape. Cut edges shall receive Firestone Seam Edge Treatment per current specifications and details.

Storage:

- Store away from sources of punctures and physical damage.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources as membrane will burn when exposed to open flame.

Precautions:

- Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
- Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the RubberGard membrane.
- Refer to Safety Data Sheets (SDS) for safety information.

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Packaging

| Property | Widths | Lengths | Weight |
|--------------|-----------------|---------------|-------------------------------------|
| 0.060" LS-FR | 10' (3.05 m) | 50' (15.24 m) | 0.43 lb/sf (2.1 kg/m ²) |
| | 10' (3.05 m) | 100' (30.5 m) | |
| | 16' 8" (5.08 m) | 100' (30.5 m) | |
| | 20' (6.1 m) | 100' (30.5 m) | |
| | 25' (7.6 m) | 100' (30.5 m) | |
| | 30' (9.4 m) | 100' (30.5 m) | |

LEED® Information:

Post Consumer Recycled Content: 0%
 Post Industrial Recycled Content: 0%
 Manufacturing Location: Prescott, AR
 *NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



| | | | |
|---|---------------------------|----------------|------------------|
|  COOL ROOF RATING COUNCIL® | | <u>Initial</u> | <u>Weathered</u> |
| | Solar Reflectance | 0.80 | 0.72 |
| | Thermal Emittance | 0.84 | 0.86 |
| | Rated Product ID Number | 0027 | |
| | Licensed Seller ID Number | 0608 | |
| Classification | Production Line | | |
| Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. | | | |
| Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures. | | | |

| Compliance: | Test Method | Result |
|----------------------------------|-------------|--------|
| Solar Reflectance** | ASTM E903 | 0.83 |
| Thermal Emittance** | ASTM E408 | 0.92 |
| Solar Reflectance Index (SRI)*** | ASTM E1980 | 105 |

**Values were obtained from independent testing by Atlas Material Testing DSET Laboratories

***SRI was calculated using the SRI calculator from the USGBC

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Typical Properties- 60 mil

| Property | ASTM | Units | Performance Min | Typical Values |
|--|---------------------------|--|---------------------------|----------------|
| Thickness, min. Sheet-overall | D 412 | in (mm) | 0.054 (1.372) | 0.056 (1.499) |
| Tensile Strength, min. | D 412 (Die C) | psi (MPa) | 1305 (9.0) | 1360 (9.4) |
| Elongation, Ultimate, min. | D 412 (Die C) | % | 300 | 468 |
| Tensile set, max. | D 412, Method A (Die C) | % | 10 | 2.1 |
| Tear Resistance, min. | D 624 (Die C) | lbf/in (kN/m) | 150 (26.3) | 234 (41.0) |
| Static Puncture Resistance | D 5602, 44.1 lb (20 kg) | --- | Pass | Pass |
| Dynamic Puncture Resistance | D 5635, 5J | --- | Pass | Pass |
| Brittleness point, maximum | D 2137 | °F(°C) | -49 (45) | -69 (-56) |
| Ozone resistance, no cracks | D 1149 | - | Pass | Pass |
| Heat Aging: | D 573 | | | |
| <i>Tensile Strength, min.</i> | D 412 (Die C) | psi (MPa) | 1205 (8.3) | 1317 (9.1) |
| <i>Elongation, ultimate, min.</i> | D 412 (Die C) | % | 200 | 325 |
| <i>Tear Resistance, min.</i> | D 624 (Die C) | Lbf/in(kN/m) | 125 (21.9) | 240 (42.0) |
| <i>Linear dimensional change, max.</i> | D 1204 | % | ±1.0 | -0.5 |
| Water absorption, max. Mass % | D 471 | % | +8, -2 | +2.5 |
| Factory Seam Strength, min. | D 816 Method B (Modified) | lbf/in (kN.m) | 50 (8.8) or Sheet Failure | Sheet Failure |
| Weather Resistance: | D 4637 | - | Pass | Pass |
| <i>Visual inspection, 7xPRFSE, min</i> | D 4637 | % | 30 | 51 |
| <i>Elongation, ultimate, min</i> | D 412 (Die C) | % | 200 | 277 |
| <i>Ultraviolet weather resistance (Xenon Arc Weathering)</i> | G 155 | --- (hrs) | Pass (1000) | Pass (4000) |
| Air Permeance (Material): | E2178* | ft ³ /ft ² (L/(s·m ²)) | <0.004 (0.02)) | Pass |

*The ASTM 2178 values listed are for the air permeance of the UltraPly TPO Membrane component only. For use of the product as a component in an air barrier assembly, please consult your Firestone Technical Advisor, Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.

NOTE: RubberGard EcoWhite EPDM membrane meets or exceeds the minimum requirements set forth by ASTM D 4637, and CGSB 37-GP-52M, for Type I, Class A, non-reinforced EPDM single-ply roofing membranes.

Please contact Firestone Technical Services Department at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.