Protection Mat

Item Number
W563589000

Product Information

Description:
Protection Mat is a nominal 4.5-oz/yd² (154 g/m²) black synthetic, non-woven, needle-punched, Geotextile fabric. It may be used as a protection mat (under membrane), a crushed stone mat (above membrane), or as a stone protection mat in ballasted systems where allowed by Firestone Specifications and Details.

Method of Application:
1. Unroll the Protection Mat overlapping side laps a minimum of 3” (76.2 mm) and end laps a minimum of 6” (152.4 mm). 
   **NOTE**: Wetting the mat or roof membrane will facilitate handling.
2. Extend mat up penetrations and vertical surfaces past the height of gravel a minimum of 2” (50.8 mm).
3. Around penetrations where mat is cut, install an additional piece of mat overlapping a minimum of 6” (152.4 mm).
4. Once mat is positioned, install gravel ballast to protect against mat movement and sunlight.
5. Coordinate installation of the roof system so that the Protection Mat is completely covered by the end of each working day.
6. Additional ballast is necessary as a 10 lb/ft² (48.8 kg/m²) ballast rate will not offer complete coverage of the Protection Mat against U.V. degradation.

Storage:
- Store in original unopened containers protected from the weather.
- Do not store near heat, flames, or strong oxidants.
- Store in cool, dry locations away from oxidizing material and UV radiation.

Precautions:
- Keep away from flame or ignition source.
- Do not smoke when using.
- Do not cover deck openings, skylights, etc., with mat.
- Keep mat covered to protect from U.V. degradation.

LEED® Information:
- Post Consumer Recycled Content: 0%
- Post Industrial Recycled Content: 0%
- Pre Consumer Recycled Content: 5% by weight
- Manufacturing Location: Athens, GA
- Pendergrass, GA

*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.*
## Protection Mat

### Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Black</td>
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<tr>
<td>Tensile Strength (Grab)</td>
<td>178 lb (80.7 kg), ASTM D-4632</td>
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<tr>
<td>Elongation (Grab)</td>
<td>96% min, ASTM D-4632</td>
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<tr>
<td>Trapezoidal Tear</td>
<td>ASTM D-4533, 86 lb (39 kg)</td>
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<tr>
<td>Burst Strength</td>
<td>ASTM D-3786, 335 psi (2310 kPa)</td>
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<tr>
<td>Accelerated Weathering</td>
<td>ASTM D-4355, 84 lb (38.1 kg) Passed 70% tensile after 500 hours of UV Weathering</td>
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<tr>
<td>Permeability</td>
<td>ASTM D-4491, 0.22 in/second (0.57 cm/second)</td>
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<tr>
<td>*CBR Puncture</td>
<td>ASTM D-6241, 310 lb (141 kg)</td>
</tr>
</tbody>
</table>

**Packaging:**
- **Material Width:** 15' (4.6 m)
- **Material Length:** 320' (97.5 m)
- **Roll Diameter:** 20" (508 mm)
- **Gross Weight:** 180 lb/roll (81.7 kg/roll)
- **Area:** 4,815 ft² (448 m²)

*CBR = California Bearing Ratio

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

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