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ROOF GARDEN

MiraDRAIN® G4 Drainage Composite



Overview

Carlisle's MiraDRAIN G4 Drainage Composite combines filter fabric, moisture retention mat, drainage board, and heavy-duty protection fabric into a single, easy-to-install product specifically designed for vegetated roofs.

Features and Benefits

- » Greatly simplifies Roof Garden installations
- » Excellent drainage rate and water-holding capacity
- » Holds 1.83 pounds of water per square foot (0.22 gallons or 0.35" of rain)
- » Moisture retention mat is 100% post-consumer recycled material
- » High compressive strength allows a multitude of overburden options to be used, e.g. pavers or traditional ballast, for alternative stormwater retention systems
- » Compatible with all Carlisle Roof Garden systems and warranted up to 20 years

Installation

1. Unroll and loose-lay MiraDRAIN G4 and orient the **GREEN SIDE UP**.
2. Butt adjacent rolls and overlap using the built-in 6" flap of moisture retention mat. Make sure to shingle the flap in the direction of the slope.
3. For end-to-end joints, peel back fabric and insert two rows of cups into the pre-existing piece.

Note: MiraDRAIN G4 **should not** be adhered to the membrane.

Review Carlisle specifications and details for complete installation information.

Roll Size

4' x 50' (200 square feet)

Typical Properties and Characteristics

| Test | Test Method | Units | Result |
|---|-------------|---|--------------|
| Composite | | | |
| Thickness | ASTM D1777 | in (mm) | 1.02 (26) |
| Compressive Strength | ASTM D1621 | psf (kN/m ²) | 12,341 (591) |
| Flow Rate at 3:12 Slope with 300 kPa load | ASTM D4716 | gpm/ft ² (L/min/m ²) | 0.216 (8.8) |
| Flow Rate at ¼:12 Slope with 300 kPa load | ASTM D4716 | gpm/ft ² (L/min/m ²) | 0.015 (0.61) |
| Water Holding Capacity | | gal/ft ² (L/m ²) | 0.22 (8.96) |
| Fabric | | | |
| Apparent Opening Size | ASTM D4751 | US std. sieve (mm) | 100 (0.132) |
| Flow Rate | ASTM D4491 | gpm/ft ² (L/min/m ²) | 132 (5,382) |
| Gran Tensile Strength | ASTM D4632 | lbs (kN) | 169 (0.95) |
| Elongation | ASTM D4632 | % | 101 |
| Puncture Resistance | ASTM D4833 | lbs (kN) | 97 (0.43) |

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED® Information

| | |
|--------------------------------|-------------|
| Pre-consumer Recycled Content | 35% |
| Post-consumer Recycled Content | 20% |
| Manufacturing Location | Madison, GA |
| Solar Reflectance Index | N/A |