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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
<b>Composite</b>			
Thickness	ASTM D1777	in (mm)	1.02 (26)
Compressive Strength	ASTM D1621	psf (kN/m <sup>2</sup> )	12,341 (591)
Flow Rate at 3:12 Slope with 300 kPa load	ASTM D4716	gpm/ft <sup>2</sup> (L/min/m <sup>2</sup> )	0.216 (8.8)
Flow Rate at ¼:12 Slope with 300 kPa load	ASTM D4716	gpm/ft <sup>2</sup> (L/min/m <sup>2</sup> )	0.015 (0.61)
Water Holding Capacity	ASTM E2398	gal/ft <sup>2</sup> (L/m <sup>2</sup> )	0.22 (8.96)
<b>Fabric</b>			
Apparent Opening Size	ASTM D4751	US std. sieve (mm)	100 (0.132)
Flow Rate	ASTM D4491	gpm/ft <sup>2</sup> (L/min/m <sup>2</sup> )	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