

# Hydrotech® Gardendrain® GR10

formerly known as Gardendrain® GR10



BUILDING TRUST



## GENERAL DESCRIPTION

Gardendrain GR10 is a composite product made of recycled polypropylene core with a fleece top cover fabric and a non-woven bottom fabric. All three components are bonded together in a single component that is designed for aeration, retention and promoting upward moisture movement.

## BASIC USE

Gardendrain GR10 is specifically designed to act as a drainage, aeration and water retention element in Hydrotech’s Extensive Garden Roof® Assembly.



## INSTALLATION

- Gardendrain GR10 is installed as indicated in Hydrotech’s Garden Roof Installation Guidelines.
- Gardendrain GR10 must be installed white fleece side up.
- Gardendrain GR10 is a roll product with a 3” wide selvage of extra top fleece along one edge and at the roll end. When installed, the selvage edge is lapped over the top surface of the adjacent GR10 roll.

## TECHNICAL DATA

|                                |  |
|--------------------------------|--|
| ROLL SIZE:                     | 48” wide x 50 ft. long (1.22 m x 15.24 m) (200 SF coverage per roll)   |
| ROLL WEIGHT:                   | 50 lbs. (22 kg)  |
| THICKNESS:                     | Core alone: 0.40 inches (10.3 mm)<br>With fabrics: 0.42 inches (approx.) (13.0 mm approx.)   |
| FLOW RATE:                     | 21 gal/minute/ft (261 l/min/m) (ASTM D-4716; hydraulic gradient = 1)   |
| WATER RETENTION:               | Core alone: 0.023 gal/square foot - 0.937 l/square meter (9% [ASTM 2397])<br>With fabrics: 0.029 gal/square foot est. - 1.182 l/square meter (11% [ASTM 2397]) |
| COMPRESSIVE STRENGTH:          | 15,000 psf (719 kNm <sup>2</sup> ) (ASTM D-1621)   |
| COVER FABRIC WEIGHT:           | 100 grams / square meters (ASTM D3776)   |
| COVER FABRIC GRAB TENSILE:     | 70 / 75 lbs (ASTM D5034)   |
| COVER FABRIC GRAB ELONGATION:  | 40% (ASTM D5034)   |
| COVER FABRIC GRAB PUNCTURE:    | 238 lbs (ASTM D6241)   |
| BOTTOM FABRIC WEIGHT:          | 129 grams / square meter (ASTM D3776)  |
| BOTTOM FABRIC GRAB TENSILE:    | 100 lbs (ASTM D5034)   |
| BOTTOM FABRIC GRAB ELONGATION: | 60% (ASTM D5034)   |
| BOTTOM FABRIC CBR PUNCTURE:    | 250 lbs (ASTM D6241)   |

**LEED® INFORMATION**

|                                | Credit 4   | Credit 5       |
|--------------------------------|--|----------------|
| Recycled Content (% by weight) | 50 (pre-consumer) core<br><5 (pre-consumer) fabric |                |
| Manufacture Location           |  | Alpharetta, GA |
| Extraction/Harvesting Location |  | Alpharetta, GA |

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