

Gardendrain® GR10

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:	1.22 metre wide x 15.24 metre long (48 in. x 50 ft) 18.58 square metre (200 sq. ft) coverage per roll
ROLL WEIGHT:	1.184 kg/ square metre (0.25 lbs/sq.ft)
THICKNESS:	Core alone: 10.16 mm (0.40 in.) With fabrics: 10.68 mm approx. (0.42 in. approx.)
FLOW RATE:	261 litre/minute/metre (21 gal/min./ft) (ASTM D4716; hydraulic gradient = 1)
WATER RETENTION	Core alone: 1.711 litre/square metre (0.042 gal/sq. ft) With fabrics 2.03 litre/square metre (0.050 gal/sq. ft)
COMPRESSIVE STRENGTH:	719 kNm ² (15,000 psf) (ASTM D1621)
COVER FABRIC WEIGHT:	100 grams/square metre (0.0204 lbs/sq. ft) (ASTM D3776)
COVER FABRIC GRAB TENSILE:	334/310 N (75/70 lbs) (ASTM D5034)
COVER FABRIC GRAB ELONGATION:	40% (ASTM 5034)
COVER FABRIC GRAB PUNCTURE:	1,059 N (238 lbs) (ASTM D6241)
APPARENT OPENING SIZE (AOS)	0.212 mm (U.S. sieve #70)
BOTTOM FABRIC WEIGHT:	129 grams/square metre (0.026 lbs/sq. ft) (ASTM D3776)
BOTTOM FABRIC GRAB TENSILE:	445 N (100 lbs) (ASTM D4632)
BOTTOM FABRIC GRAB ELONGATION:	50% (ASTM D4632)
BOTTOM FABRIC CBR PUNCTURE:	1,113 N (250 lbs) (ASTM D6241)

LEED INFORMATION

	Credit 4	Credit 5
Recycled Content (% by weight)	50 (Post-industrial) core <5 (Post-industrial) fabric	
Manufacture Location		Alpharetta, GA, U.S.A.
Extraction/Harvesting Location		Alpharetta, GA, U.S.A.
VOC Content (g/L)		0

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