

Gardendrain® GR25

GENERAL DESCRIPTION

Gardendrain® GR25 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® GR25 is specifically designed to act as a drainage, aeration and water retention element in Hydrotech’s Extensive Garden Roof® Assembly.



INSTALLATION

- Gardendrain® GR25 is installed as indicated in Hydrotech’s Garden Roof® Installation Guidelines.
- Gardendrain® GR25 must be installed white fleece side up.
- Gardendrain® GR25 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 GR25 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:	2.045 kg/ square metre (0.44 lbs/ sq. ft)
THICKNESS:	Core alone: 25.4 mm (1 in.) With fabrics: 27.5 mm approx. (1.05 in. approx.)
FLOW RATE:	372 litre/minute/metre (30 gal/min./ft) (ASTM D4716; hydraulic gradient = 1)
WATER RETENTION	Core alone: 4.5 litre/square metre (0.11 gal/sq. ft) With fabrics 7.74 litre/square metre (0.19 gal/sq. ft)
COMPRESSIVE STRENGTH:	455 kNm ² (9,500 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 lb) (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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