

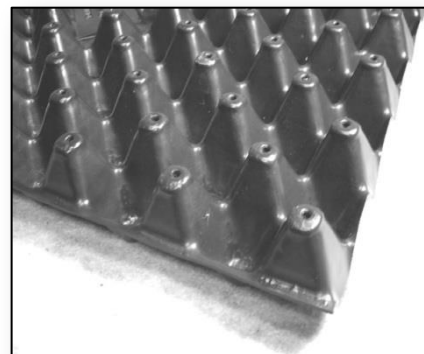
Gardendrain® GR50

GENERAL DESCRIPTION

Gardendrain® GR50 is made of recycled polyethylene, molded into a three-dimensional panel. The unique design provides retention cups on the top side, drainage channels on top and bottom and holes in the tops of the “domes” for ventilation and evaporation.

BASIC USE

Gardendrain® GR50 is specifically designed to act as a drainage and water retention element in Hydrotech’s Garden Roof® Assembly. It is typically utilized under intensive landscaping.



TECHNICAL DATA

Panel dimensions	1.2 m x 1.8 m (4 ft X 6 ft)
Panel height	50 mm (2 in.)
Weight: w/cups empty	2.2 kg /sq. m (0.4 lb/ sq. ft)-dry; 10.8 kg / sq. m (2 lb/ sq. ft)-wet
w/cups filled*	21.7 kg/ sq. m (4.3 lb/ sq. ft)-dry; 31.8 kg/ sq. m (6.3 lb/ sq. ft)-wet
Compressive strength	15,399.2 kg/ sq. m (cups empty); 34,177 kg/ sq. m (cups filled)
D-ASTM 1621	3,154 Lb/ sq. ft (cups empty); 7,000 Lb/sq. ft (cups filled)
WATER RETENTION	volume of water retained on a slope of 2 degrees: > 0.75 cm ³ /cm ²
ASTM E 2398-11	volume of water retained on a slope of 5 degrees: > 0.60 cm ³ /cm ²
	volume of water retained on a slope of 10 degrees: > 0.40 cm ³ /cm ²
	volume of water retained on a slope of 14 degrees: > 0.30 cm ³ /cm ²
Volume to fill	2.4 l. (≈0.08 cubic ft) for every 1 sq. ft in area
Flow ASTM D-4716	530 l./min./m width (42 gal. /min./ft width) h.g. =1

INSTALLATION

- Gardendrain® GR50 is to be installed loose-laid over the specified root barrier, insulation or Moisture Retention Mat over the entire surface of the roof.
- Gardendrain® GR50 is easily cut to fit around penetrations, perimeters, drains, etc. with a heavy-duty utility knife or small-toothed saw.
- Adjacent panels are typically butted together.
- The retention cups of Gardendrain® GR50 are typically filled with lightweight expanded aggregate.

LEED INFORMATION

	Credit 4	Credit 5
Recycled Content (% by weight)	100	
Manufacture Location		Goshen, IN, U.S.A.
Extraction/Harvesting Location		Bloomington, IN, U.S.A.
VOC Content (g/L)		0

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