



J•DRAIN® GRS50

Green Roof Drainage System

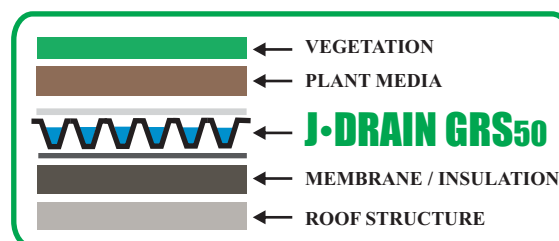
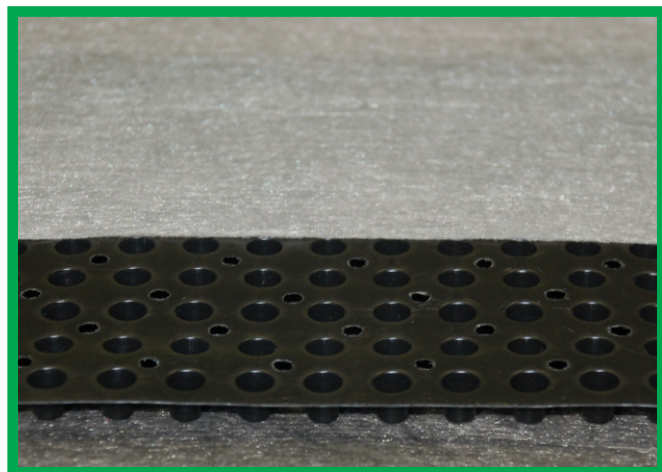
APPLICATIONS:

GREENROOFS

PLANTERS

Advantages:

- ◆ Low cost
- ◆ Polypropylene core
- ◆ Filters fine particles
- ◆ Easy install / No loose fabrics
- ◆ Pre-assembled drain system
- ◆ Root, mildew & rot resistant
- ◆ Water retention chambers (.042 gal/sq. Ft.)
- ◆ Reduces weight of greenroof (no gravel)



Product Description:

J•DRAIN GRS50 consists of a impermeable polymeric sheet cusped under heat and pressure to form a high flow dimpled drainage core. The core is perforated, then bonded to top root resistant filter fabric and bottom protection fabric, specifically designed for Greenroof applications. The top root resistant filter fabric prevents roots from affecting the efficiency of the drainage/aeration layer and retains soil or other fine particles from being washed away and allows water to pass into the drainage core. The bottom protection fabric safeguards the waterproofing membrane. The core is installed dimple side down to allow water retention. The excess water is collected and conveyed to a proper collection system..

Physical Properties

Core		Fabric		
		<u>Fabric Type</u>	<u>ECO</u> (top grey)	<u>Protection</u> (bottom black)
Compressive Strength (ASTM D-1621)	15,000 psf 719 kNm2			
Thickness (ASTM D-1777)	.40 in. 1.016 cm.	Apparent Opening Size (ASTM D4751)	50 US Sieve	70 US Sieve
Flow (ASTM D-4716)	21 gal/min/ft	Grab Tensile (ASTM D5034)	75 lbs	80 lbs
Hydraulic gradient = 1	261 l/min/m	Grab Elongation (ASTM D5034)	40%	50%
Water Retention	.042 gal/sq ft.	CBR Puncture (ASTM D6241)	160 lbs.	210 lbs.
Roll Weight	50 lbs.	Water Flow Rate (ASTM D4491)	165 gal/min/ft ²	160 gal/min/ft ²
Roll Width	4 ft.	Permittivity (ASTM D4491)	1.8 sec ⁻¹	2.2 sec ⁻¹
Roll Length	50 ft.			

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