



J·DRAIN[®] GRS₅₀

Green Roof Drainage System

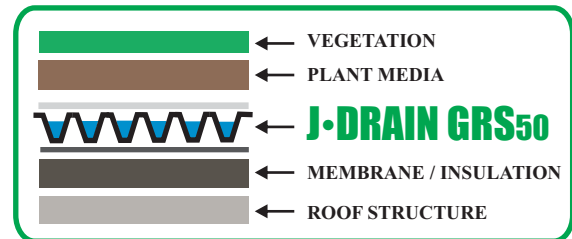
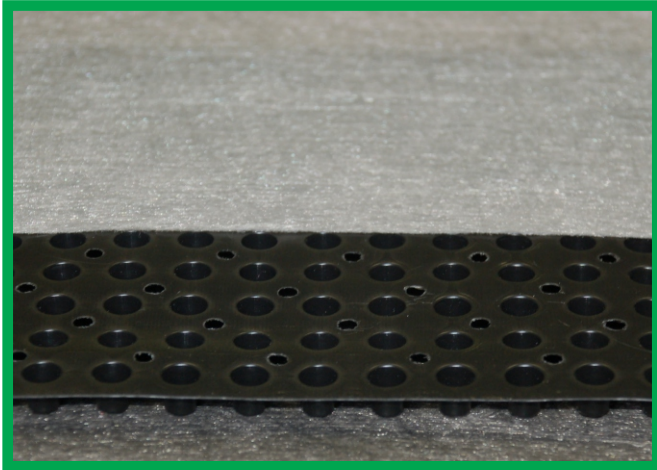
APPLICATIONS:

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 necessary)



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		
Compressive Strength (ASTM D-1621)	15,000 psf 719 kNm2	Fabric Type	ECO (top grey)	Protection (bottom black)
Thickness (ASTM D-1777)	.40 in. 1.016 cm.	Basis Weight (ASTM D3776)	100 gsm	129 gsm
Flow (ASTM D-4716) Hydraulic gradient = 1	21 gal/min/ft 261 l/min/m	Grab Tensile (ASTM D5034)	75 lbs	100 lbs
Water Retention	.042 gal/sq ft.	Grab Elongation (ASTM D5034)	40%	60%
Roll Weight	50 lbs.	Thickness (ASTM D1777)	.49 mm	1.3 mm
Roll Width	4 ft.	CBR Puncture (ASTM D6241)	160 lbs.	250 lbs.
Roll Length	50 ft.	Water Flow Rate (ASTM D4491)	165 gal/min/ft ²	140 gal/min/ft ²

The information contained herein is believed by JDR Enterprises, Inc. to be accurate and is offered solely for the customer's consideration, investigation and verification. Determination of suitability for use is the responsibility of the user. JDR's Limitations, Limited Warranty, & Disclaimer along with Standard Terms & Conditions apply. See www.j-drain.com for more info. **Limitations:** J-DRain is resistant to chemicals in normal soil environments. However, some reagents may affect the performance of J-DRain. A JDR representative should be contacted for further information to determine the suitability of use of J-DRain in unusual soil environments. J-DRain should be limited to its exposure to ultra-violet sunlight. J-DRain should be backfilled or covered within seven days of installation. **Disclaimer:** All information, drawings and specifications are based on the latest published information at the time of printing. JDR reserves the right to make changes due to manufacturing improvements and engineering at any time. All physical properties are minimum average roll values (MARV). Standard variations of 10% in mechanical properties and 15% in hydraulic properties are normal.

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