

GREENSCAPES® GS-315

DRAINAGE/RETENTION PANEL

DESCRIPTION

GREENSCAPES GS-315 is a 1.5 inch deep 3-dimensional drainage/retention panel that retains water for plant root uptake while allowing free flow of excess water over both the top surface and underneath the panel. The GS-315 is made of high density polyethylene that is very light in weight yet strong enough to support a high overburden load. The large, open, configuration of the GS-315 makes it an ideal choice for intensive greenroof applications with high overburden loads or in extensive greenroof applications where maximum water retention is desired as part of a storm water management program.

APPLICATIONS

- For use in:
- Green roofs
 - Exterior planters

FEATURES AND BENEFITS

- Excellent durability
- Large retention cups maximize storm water retention
- Flat 40 inch x 48 inch panels ship easily on a pallet and are easy to move and handle during installation.
- Maintains continuous flow under high loads
- Easy to cut to fit around penetrations, perimeters and drains
- Can be filled with lightweight aggregate (LWA) for added compressive strength when used with deeper growing media profiles

PHYSICAL PROPERTIES		
PROPERTY	TEST STANDARD	TYPICAL VALUE
Material		High Density Polyethylene
Size		40 in. x 48 in (1.02 m x 1.2 m)
Packaging		4,000 sq. ft. per pallet (371.6 sq. meters/pallet)
Height		1.5 in (3.8 cm)
Weight		
Empty/dry		0.26 lbs/sq. ft (1.27 kg/sq. m)
Empty/water filled		0.91lbs/sq. ft. (4.44 kg/sq. m)
Filled with LWA/dry		Approx.0.54 lbs/sq. ft (2.63 kg/sq. m)
Filled with LWA/saturated		Approx. 2.32 lbs/sq. ft (11.33 kg/sq. m)
Water Retention		
Empty		0.078 gal/sq. ft (3.18 L/sq. m)
Filled with LWA		0.20 gal/sq. ft (8.15 L/sq. m)
Flow Rate	ASTM D-4716*	23.5 gal/min/foot width (291.6 L/m width)
Lightweight Aggregate to fill		0.047 cubic ft./sq. ft (123.6 cubic cm/sq. m)
Compressive Strength	ASTM D-1621**	864 lbs/sq. ft (4,218.4 kg/sq. m)
*Test conditions of 1000 psf pressure and 0.1 gradient		
**Filling cups with lightweight aggregate greatly increases compressive strength		

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