



Greenroof-Roofscapes® Granular Drain

DESCRIPTION

A granular drainage medium for extensive, semi-intensive and intensive green roofs, as well as for planters and containers, designed to retain stormwater and to provide horizontal drainage, and which meets the requirements described in ASTM E2777-14 Standard Guide for Vegetative (Green) Roof Systems and detailed below.

Greenroof-Roofscapes® Granular Drain is a precisely balanced blend that consists of all lightweight mineral aggregate.

WEIGHT CLASSES

Greenroof-Roofscapes® Granular Drain is available in different saturated weight classes. These weight classes are designed to guide you in choosing the best option for your project. Each weight class is identified by a number that corresponds to the typical weight for fully saturated media based on ASTM E2399.

Depending on your specific region, the following weight classes are available for Greenroof-Roofscapes® Granular Drain:

	SYSTEM	SATURATED WEIGHT
WEIGHT	Granular Drain 500	40 - 50 lb/ft ³
	Granular Drain 600	50 - 60 lb/ft ³
	Granular Drain 700	60 - 70 lb/ft ³
	Granular Drain 800	70 - 80 lb/ft ³

	PROPERTIES	RESULTS
TECHNICAL PROPERTIES	Particle Size Distribution (ASTM D422-63)	
	Proportion of Particles < 3.20mm 1/8" mesh	≤ 25% (mass)
	Proportion of Particles < 6.30mm 1/4" mesh	≤ 75% (mass)
	Proportion of Particles < 9.50mm 3/8" mesh	≥ 80% (mass)
	Proportion of Particles < 12.50mm 1/2" mesh	100% (mass)
	Bulk Density Measurements (ASTM E2399)*	
	Bulk Density Dry Weight Basis	50 - 60 lb/ft ³
	Bulk Density at Max. Water-Holding Capacity	60 - 70 lb/ft ³
	Water/Air Measurements (ASTM E2399)	
	Max. Water-Holding Capacity	≥ 10% (vol)
Air-Filled Porosity at Max. Water-Holding Capacity	≥ 20% (vol)	
Water Permeability (saturated hydraulic conductivity)	≥ 100 in/min	
pH and Salt Content		
pH (in CaCl ₂)	6.0 - 8.5	
Soluble Salts (water, 1:10 m:v)	< 2.5 g (KCl)/L	
Organic Measurements (LOI at 500°C; SM 2540 G)		
Organic Matter Content	≤ 3.0 g/L	

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(800) 647-0100



info@barrettroofs.com

barrettroofs.com