



Greenroof-Roofscapes® Extensive Media

DESCRIPTION

A planting medium for extensive vegetative (green) roof systems with a separate drain layer, designed to retain stormwater and to promote long lasting vigorous plant growth, and which meets the requirements described in ASTM E2777-14 Standard Guide for Vegetative (Green) Roof Systems and detailed below.

Greenroof-Roofscapes® Extensive Media is a precisely balanced blend of carefully selected lightweight mineral aggregates and premium organic components, like USCC STA approved compost.

WEIGHT CLASSES

Greenroof-Roofscapes® Extensive Media 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® Extensive Media:

	SYSTEM	SATURATED WEIGHT
WEIGHT	Extensive 500	50 - 60 lb/ft ³
	Extensive 600	60 - 70 lb/ft ³
	Extensive 700	70 - 80 lb/ft ³
	Extensive 800	80 - 90 lb/ft ³

	PROPERTIES	RESULTS
TECHNICAL PROPERTIES	Particle Size Distribution (ASTM D422-63)	
	Proportion of Particles < 0.05mm	≤ 15% (mass)
	Proportion of Particles < 0.25mm #60 mesh	5 - 30% (mass)
	Proportion of Particles < 1.00mm #18 mesh	10 - 50% (mass)
	Proportion of Particles < 2.00mm #10 mesh	30 - 70% (mass)
	Proportion of Particles < 3.20mm 1/8" mesh	40 - 80% (mass)
	Proportion of Particles < 6.30mm 1/4" mesh	65 - 95% (mass)
	Proportion of Particles < 9.50mm 3/8" mesh	80 - 100% (mass)
	Proportion of Particles < 12.50mm 1/2" mesh	100% (mass)
	Bulk Density Measurements (ASTM E2399)*	
	Bulk Density Dry Weight Basis	25 - 45 lb/ft ³
	Bulk Density at Max. Water-Holding Capacity	60 - 70 lb/ft ³
	Water/Air Measurements (ASTM E2399)	
	Total Pore Volume	≥ 50% (vol)
	Max. Water-Holding Capacity	40 - 60% (vol)
Air-Filled Porosity at Max. Water-Holding Capacity	≥ 7% (vol)	
Water Permeability (saturated hydraulic conductivity)	0.024 - 2.83 in/min	
pH and Salt Content		
pH (in CaCl ₂)	6.0 - 8.5	
Soluble Salts (water, 1:10 m:v)	< 3.5 g (KCl)/L	
Organic Measurements (LOI at 500°C; SM 2540 G)		
Organic Matter Content	25 - 65 g/L	
Nutrient Retention Capacity		
Cation Exchange Capacity (CEC)	≥ 6 meq/100 g	

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