



Greenroof-Roofscapes® Intensive Media

DESCRIPTION

A planting medium for intensive 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® Intensive 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® Intensive 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® Intensive Media:

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

| | PROPERTIES | RESULTS |
|---|--|----------------------------|
| TECHNICAL PROPERTIES | Particle Size Distribution (ASTM D422-63) | |
| | Proportion of Particles < 0.05mm | ≤ 20% (mass) |
| | Proportion of Particles < 0.25mm #60 mesh | 15 - 40% (mass) |
| | Proportion of Particles < 1.00mm #18 mesh | 25 - 60% (mass) |
| | Proportion of Particles < 2.00mm #10 mesh | 40 - 80% (mass) |
| | Proportion of Particles < 3.20mm 1/8" mesh | 50 - 90% (mass) |
| | Proportion of Particles < 6.30mm 1/4" mesh | 75 - 100% (mass) |
| | Proportion of Particles < 9.50mm 3/8" mesh | 90 - 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 | 45 - 65% (vol) |
| Air-Filled Porosity at Max. Water-Holding Capacity | ≥ 7% (vol) | |
| Water Permeability (saturated hydraulic conductivity) | 0.0118 - 1.18 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 | 50 - 90 g/L | |
| Nutrient Retention Capacity | | |
| Cation Exchange Capacity (CEC) | ≥ 6 meq/100 g | |

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