



Growing Media for Intensive Green Roofs

Description

Terra-LITE™ Intensive is an engineered growth media that has optimized performance characteristics for intensive green roofs, rooftop gardens, container gardens and planters.

Terra-LITE™ Intensive is available in different saturated weight classes, each designed to guide you in choosing the best option for your project based on your weight requirements. Each weight class is identified by a number that corresponds to the typical weight for fully saturated media based on ASTM E2399.



Weight Classes

System	Saturated Weight
Intensive 500	50 - 60 lbs/ft ²
Intensive 600	60 - 70 lbs/ft ²
Intensive 700	70 - 80 lbs/ft ²
Intensive 800	80 - 90 lbs/ft ²
Intensive 900	90+ lbs/ft ²

Benefits

- An ideal growing media for intensive green roofs, rooftop gardens, container gardens & planters
- Can be combined with Terra-LITE™ Intensive Base and Terra-LITE™ Granular Drain to provide deeper root space
- Normally used at depth of 8-12 inches
- Supports growth of ground covers, perennials, ornamental grasses, shrubs, and trees

Uses

- Intensive green roofs
- Vegetative roofs
- Rooftop gardens
- Container gardens
- Commercial planters



LEED Credits available for:

- Materials & Resources (MR)

Properties

Particle Size Distribution (ASTM D-422-63)

Description	Measurement
Proportion of Particles < 0.05 mm	≤ 20% (mass)
Proportion of Particles < 0.25 mm (#60 mesh)	15 - 40% (mass)
Proportion of Particles < 1.00 mm (#18 mesh)	25 - 60% (mass)
Proportion of Particles < 2.00 mm (#10 mesh)	40 - 80% (mass)
Proportion of Particles < 3.20 mm (1/8" mesh)	50 - 90% (mass)
Proportion of Particles < 6.30 mm (1/4" mesh)	75 - 100% (mass)
Proportion of Particles < 9.50 mm (3/8" mesh)	90 - 100% (mass)
Proportion of Particles < 12.50 mm (1/2" mesh)	100% (mass)

Bulk Density Measurements (ASTM E-2399)*

Description	Measurement
Bulk Density Dry Weight Basis	25 - 45 lbs/ft ³
Bulk Density at Max. Water Holding Capacity	60 - 70 lbs/ft ³

Water/Air Measurements (ASTM E-2399)

Description	Measurement
Total Pore Volume	≥ 50% (vol)
Max. Water Holding Capacity	45 - 65% (vol)
Air-Filled Porosity @ Max. Water Holding Capacity	≥ 7% (vol)
Water Permeability (Saturated Hydraulic Conductivity)	0.0118 - 1.18 in/min

pH and Salt Content

Description	Measurement
pH (in CaCl ₂)	6.0 - 8.5
Soluble Salts (water, 1:10 m:v)	< 2.5 g (KCl)/L

Organic Measurements (LOI @ 500°C; SM 2540 G)

Description	Measurement
Organic Matter Content	50 - 90 g/L

Nutrient Retention Capacity

Description	Measurement
Cation Exchange Capacity (CEC)	≥ 6 meq/100 g