



Description

Terra-LITE™ Aggregate is a lightweight granular aggregate that creates a sustainable root environment by retaining and draining water in a natural way. Depending on specific project requirements, additional drainage layers can be used to increase horizontal flow rate. It can also be used as bedding material for pavers or patios in a green roof area.

Terra-LITE™ Aggregate 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 400	40 - 50 lbs/ft ²
Intensive 500	50 - 60 lbs/ft ²

Benefits

- Promotes healthy plant growth by retaining & draining water in a natural way
- Provides a more natural root space with better water & air distribution than synthetic options
- Can be easily adjusted for any area or depth
- Provides drainage while contributing to stormwater retention when used as bedding material for pavers

Uses

- Granular drainage layer for extensive, semi-intensive, or intensive green roofs in multi-course systems
- Bedding material for pavers within a green roof area

Properties

Particle Size Distribution (ASTM D-422-63)

Description	Measurement
Proportion of Particles < 3.20 mm (1/8" mesh)	≤ 25% (mass)
Proportion of Particles < 6.30 mm (1/4" mesh)	≤ 75% (mass)
Proportion of Particles < 9.50 mm (3/8" mesh)	≥ 80% (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	50 - 60 lbs/ft ³
Bulk Density at Max. Water Holding Capacity	60 - 70 lbs/ft ³

Water/Air Measurements (ASTM E-2399)

Description	Measurement
Max. Water Holding Capacity	≥ 10% (vol)
Air-Filled Porosity @ Max. Water Holding Capacity	≥ 20% (vol)
Water Permeability (Saturated Hydraulic Conductivity)	≥ 100 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	≤ 3.0 g/L



LEED Credits available for:

- Materials & Resources (MR)