



PERFORMANCE SPECIFICATION

ENVIROTECH SM-100

Revised 06/01/03

EnviroTech SM-100 is a unique blend of expanded slate and horticulture composite developed for use on vegetated roof tops and other specific horticultural uses.

Composition/Technical Data:

Mineral/Organic Components:

Expanded Slate/Horticulture Composite

Void ratio at Field Capacity (0.333 bar)	≥ 15% (vol)
Moisture content at Field Capacity	≥ 12% (vol)
Maximum Water Capacity	≥ 35% (vol)
Density at Maximum Water Capacity	≤ 62 lb/ft ³
Saturated Hydraulic Conductivity	≥ 1.5 in/hr, and ≤ 15.0 in/hr
Volatile fraction (organic matter)	≤ 10% (dry wt)
pH	5.5 – 7.9
Soluble salt	≤ 0.30 mmhos/cm (1:20 dilution)

Grain-size distribution of the mineral fraction (ASTM-D422)

Clay fraction (2 micron)	≤ 1%
Pct. Passing US#200 sieve	≤ 5% (i.e., silt fraction)
Pct. Passing US#60 sieve	≤ 10%
Pct. Passing US#18 sieve	5 – 50%
Pct. Passing 1/8 inch sieve	20 – 70%
Pct. Passing 3/8 inch sieve	75 – 100%

Dry Weight	46.042 lbs/ft ³
Saturated 12 Hours	70.639 lbs/ft ³
Drained 30 Minutes	62.960 lbs/ft ³

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