

Growth Media for Green Roof Construction

Extensive Growth Media that is a mixture of mineral and organic components:

		Isolite® CG 2
1. Air Filled Porosity at Maximum Water Capacity	(ASTM-E2399)	25
2. Maximum Water Capacity	(FLL or ASTM-E2399)	50
3. Density at Maximum Water Capacity	(ASTM-E2399)	67.6
4. Water Permeability - Inches per hour	(ASTM-E2399-05)	9.95
5. Alkalinity, Ca CO ₃ equivalents	(MSA)	≤ 1
6. Total Organic Matter, loss on ignition method	(ASTM-F1647)	0.4
7. pH	(RCSTP)	5.9
8. Soluble Salts (DPTA saturated paste extraction)	(RCSTP)	0.1
9. Organic Supplements (compost, peat moss, etc.) (combined respiration rate (TMECC 05.08, B))		
10. Cation exchange capacity	(MSA)	< 2
11. Grain-size distribution of the mineral fraction	(ASTM-D422)	
a. Clay fraction (2 micron)		16.9
b. Pct. Passing US#200 sieve (i.e., silt fraction)		15.7
c. Pct. Passing US#60 sieve		66.4
d. Pct. Passing US#18 sieve		99
e. Pct. Passing 1/8-inch sieve		100
f. Pct. Passing 3/8-inch sieve		100
12. Total Nitrogen, TKN	(MSA)	N/A
13. Phosphorus, P ₂ O ₅	(Mehlich III)	N/A
14. Potassium, K ₂ O	(Mehlich III)	≤ 1%
15. Other macro- and micro-nutrients shall be incorporated in the formulation in initial proportions suitable for support the specified planting.		

