

SOIL CONTROL LAB

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Account No.:
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Group: Oct. 07 No.19

CODE: Green Roof

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Gail Materials
1256 Magnolia Ave.
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DATE RECEIVED: 02 Nov. 07
SAMPLE ID: Green Roof Media
SAMPLE ID. No.: 1 7110082

GeenRoof Growing Media

Physical Properties

Grain Size Distribution			% passing	Units
0.375 in	9.50 mm	NA	100.0	% passing
0.125 in	3.35 mm	6 sieve	89.5	% passing
0.0394 in	1.00 mm	18 sieve	40.9	% passing
0.0098 in	0.250mm	60 sieve	8.2	% passing
0.0029 in	0.075mm	200 sieve	0.3	% passing
Silt & Clay		< 200	0.0	%
Crushing Value (10 drops)			10.7	% change
Compaction Value (10 drops)			20.0	% change
Separation Value (density) (top-bot)			2.1	% change
Separation Value (size) (top-bottom)			1.0	% change
			lb/cu ft	g/cc
Bulk Density (application)			85	1.36
Bulk Density (saturated)			106	1.70
Bulk Density (dry)			80	1.29
Particle Density			145	2.32

Water & Air Management

Porosity (total @ 6" depth)	55.4	% vol.
Porosity (water)	41.0	% vol.
Porosity (air)	14.4	% vol.

Hydraulic Conductivity

	cm/sec.	inches/hour
	0.177	3.88

Nutrient Values

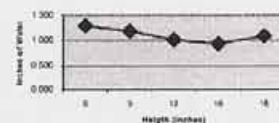
Primary&Sec.mg/l	Sat.Ext .mg/l	Suggested Starting Range	Maxium Value
Ammonia (NH4-N)	1.2	100	100
Nitrate (NO3-N)	3.5	300	300
Phosphorus (P)	1.2	18	18
Potassium (K)	52	350	350
Calcium (Ca)	170	200+	200+
Magnesium (Mg)	57	70+	70+
Sulfate (SO4-S)	940	100	100
Trace and Salts			
Copper (Cu)	0.02	4	4
Zinc (Zn)	0.10	30	30
Iron (Fe)	20	40	40
Manganese (Mn)	5.7	30	30
Boron (B)	1.0	2.5	2.5
Sodium (Na)	180	130	130
Chloride (Cl)	50	200	200

Suggested Range is crop specific

pHs value (units)	4.65
SolubleSalts (ECe) mmhos/cm	1.75
Carbonates (as CaCO3) %	0.00
Organic Matter % dry wt (change at 550 deg. C)	1.2

Depth of Mix (inches)	DeadWeight saturated lb/sq ft at depth	Water Retained (inches)				Plant Available (80% top 4")
		Tot.Water Retained (saturated)	Rain Water Space (70 % total)	Water Retained top 4"		
6	56	2.41	1.7	1.299	1.0	
9	86	3.43	2.4	1.186	0.9	
12	109	4.11	2.9	1.009	0.8	
15	140	4.89	3.4	0.933	0.7	
18	169	5.41	3.8	1.086	0.9	

Water Retention Curve



Method development assisted by: American Hydrotech, Chicago, Illinois

Analyst: Frank Shields

Frank Shields

* Ref. Meth. For Soil Analysis (Soilless Media Test)