



Turf & Soil Diagnostics



Furbish Company
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 Date Reported Feb-13-2017
 Facility Product Development

Maximum Media Density for Dead Load Analysis of Green Roof Systems †

Lab ID#	Sample Name	Water Permeability (Saturated Hydraulic Conductivity)		Initial Media Density (Application Density)		Maximum Media Density (Saturated Density)		Maximum Media Water Retention (%)	Dry Media Density	
		(in/hr)	(mm/min)	(lb/ft ³)	(g/cm ³)	(lb/ft ³)	(g/cm ³)		(lb/ft ³)	(g/cm ³)
17020030-1	G2 Media	27.8	11.7	92.4	1.48	105.9	1.70	41	80.6	1.29

Lab ID#	Sample Name	Initial Sample Wt. (Kg)	Sample Volume (m ³)	Initial Sample Height (cm)	Final Sample Height (cm)	Sample Wt. After Draining (Kg)	Total Pore Space (%)	Air-filled Porosity ^{††} (%)	pH ^{†††}	Electrical Conductivity mmhos/cm	Organic Matter ^{††††} (%)
17020030-1	G2 Media	2.581	0.0017	9.6	9.8	3.0	52	11	6.4	0.2	5.0

Particle Size Evaluation*

Lab ID#	Sample Name	% Sand 2.0 - 0.063 mm	% Silt 0.063-0.002 mm	% Clay < 0.002mm	% Passing US sieve (mm)					
					Gravel 3/8"	Gravel 1/8" (3.17)	Gravel 10 (2.0)	V. Coarse 18 (1.0)	Medium 60 (0.25)	V. Fine 230 (0.063)
17020030-1	G2 Media	13.8	3.3	1.8	98.5	27.3	18.9	13.1	7.1	5.0

† ASTM E2399 †† At Maximum Media Density (Water-holding Capacity) ††† ASTM D4972 w CaCl₂ (not screened) * ASTM F1632 Method B ** Ashed at 550° C (FLL Guidelines)

Samples were tested as received and comments pertain only to the samples shown.
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 Sample condition upon receipt was normal.
 Samples were received with a transmittal letter.

Reviewed by _____