



**Turf & Soil Diagnostics**

Pro-Gro Mixes & Materials  
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Date Received Jan-28-2020  
 Date Reported Feb-3-2020  
 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 (%)	Air-filled Porosity** (%)	Dry Media Density	
		(in/hr)	(mm/min)	(lb/ft <sup>3</sup> )	(g/cm <sup>3</sup> )	(lb/ft <sup>3</sup> )	(g/cm <sup>3</sup> )			(lb/ft <sup>3</sup> )	(g/cm <sup>3</sup> )
20010059-4	Landscape Blend #2	3.9	1.6	66.4	1.06	89.8	1.44	59	7	52.8	0.85

Lab ID#	Sample Name	Initial Sample Wt. (Kg)	Sample Volume (m <sup>3</sup> )	Initial Sample Height (cm)	Final Sample Height (cm)	Sample Wt. After Draining (Kg)	Total Pore Space (%)	pH <sup>†††</sup>	Electrical Conductivity mmhos/cm	Organic Matter** (%)	Organic Matter** g/L
20010059-4	Landscape Blend #2	2.017	0.0019	10.4	10.7	2.7	66	6.6	0.2	14.1	119.8

**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)
20010059-4	Landscape Blend #2	63.9	15.8	6.3	99.5	87.6	86.1	81.3	47.5	22.1

† ASTM E2399

††At Maximum Media Density (Water-holding Capacity)

†††ASTM D4972 w CaCl<sub>2</sub> (not screened)

\*ASTM F1632 Method B

\*\*Ashed at 550° C (FLL Guidelines)  
 Electrical Conductivity (1:5)

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 \_\_\_\_\_