

Green Roof Outfitters / Greenrise Technologies



Date Received Feb-22-2022
Date Reported Feb-28-2022
Facility Product Development-DFP

## Maximum Media Density for Dead Load Analysis of Green Roof Systems <sup>‡</sup>

ated Hydraulic Cond	uctivity)	(Applicati	ion Density)	(Saturated	Density)	Media Water	Porosity <sup>‡‡</sup>	Media	Density
								Media Density	
n/hr) (mm	/min)	(lb/ft <sup>3</sup> )	(g/cm³)	(lb/ft <sup>3</sup> )	(g/cm³)	Retention (%)	(%)	(lb/ft <sup>3</sup> )	(g/cm³)
7.5 3	.2	68.5	1.10	84.8	1.36	47.7	6.6	55.0	0.88
7	/hr) (mm. 7.5 3	/h/r) (mm/min) 7.5 3.2						12 1 12 1 12 1 12 1 1 1 1 1 1 1 1 1 1 1	

		Initial Sample Wt.	Sample Volume	Initial Sample Height	Final Sample Height	Sample Wt. After Draining	Total Pore Space	pH <sup>III</sup>	Electrical Conductivity	Organic Matter**	Organic Matter**
Lab ID#	Sample Name	(Kg)	(m <sup>3</sup> )	(cm)	(cm)	(Kg)	(%)		mmhos/cm	(%)	g/L
22020068-1	Intensive (2/16/22)	2.136	0.0019	10.7	10.8	2.6	54.3	7.1	0.2	10.6	93.3

## Particle Size Evaluation\*

					% Passing US sjeve (mm)					
Lab ID#	Sample Name	% Sand 2.0 - 0.063 mm	% Silt 0.063-0.002 mm	% Clay < 0.002mm	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)
22020068-1	Intensive (2/16/22)	43.4	13.6	2.5	99.6	63.7	59.6	52.9	26.7	16.3

<sup>&</sup>lt;sup>‡</sup> ASTM E2399

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.

Digitally signed by Sam Ferro Date: 2022.02 28

Reviewed by \_\_

d by \_\_\_\_\_

<sup>\*\*</sup>At Maximum Media Density (Water-holding Capacity)

<sup>\*\*\*\*</sup>ASTM D4972 w CaCl<sub>2</sub> (not screened)

<sup>\*</sup>ASTM F1632 Method B

<sup>\*\*</sup>Ashed at 550° C (FLL Guidelines) Electrial Conductivity (1:5)