



Carolina Stalite Company Chuck Friedrich P.O. Box 1037 Salisbury, NC 28145



Date Received Aug-26-2016 Date Reported Aug-31-2016 Facility Product Development

Maximum Media Density for Dead Load Analysis of Green Roof Systems [‡]

		Water Permeability (Saturated Hydraulic Conductivity)		Initial Media Density (Application Density)		Maximum Media Density (Saturated Density)		Maximum Media Water	Dry Media Density	
Lab ID#	Sample Name	(in/hr)	(mm/min)	(lb/ft ³)	(g/cm ³)	(lb/ft ³)	(g/cm ³)	Retention (%)	(lb/ft ³)	(g/cm ³)
16080119-1	Intensive	80.7	34.1	70.1	1.12	87.2	1.40	44	59.8	0.96

		Initial Sample Wt.	Sample Volume	Initial Sample Height	Final Sample Height	Sample Wt. After Draining	Total Pore Space	Air-filled Porosity [#]	pH ^{≇≋}	Electrical Conductivity	Organic Matter**
Lab ID#	Sample Name	(Kg)	(m ³)	(cm)	(cm)	(Kg)	(%)	(%)		mmhos/cm	(%)
16080119-1	Intensive	1.998	0.0018	9.8	10.0	2.5	53	9	6.6	0.2	7.5

Particle Size Evaluation*

					% Passing US sieve (mm)					
Lab ID#	Sample Name	% Sand	% Silt	% Clay	Gravel	Gravel	Gravel	V. Coarse	Medium	V. Fine
200 10#		2.0 - 0.063 mm	0.063-0.002 mm	< 0.002mm	3/8"	1/8" (3.17)	10 (2.0)	18 (1.0)	60 (0.25)	230 (0.063)
16080119-1	Intensive	37.2	5.2	2.6	95.3	54.2	45.0	38.3	15.4	7.8

[‡]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 without a transmittal letter.

Reviewed by _____

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