

MATERIALS TEST REPORT FOR
Les Sols Champlain

REPORT TO: Alain Marchand
 Les Sols Champlain
 1111 Cabane Ronde
 Mascouche, Quebec J7K0P2

DATE RECEIVED: January 24, 2013
TEST DATE: January 24 - 25, 2013
REPORT DATE: January 25, 2013
CONDITION OF SAMPLE: Normal

MATERIAL ANALYSIS

Lab ID No.	Sample	Soil Separate ¹ %		Sand Size Class/Sand Particle Diameter % retained						Organic Matter ² (%)	Perc Rate ³ (in/hr)
		Sand	Silt & Clay	Gravel 2 mm	V. coarse 1 mm	Coarse 0.5 mm	Medium 0.25 mm	Fine 0.15 mm	V. fine 0.05 mm		
32092-1	Sable Lave #1 mm	100.0	0.0	0.0	1.5	18.8	69.6	8.8	1.3	--	50.1
USGA Recommendations			≤ 8% ²	≤ 3% gravel ≤ 10% combined		≥ 60%		≤ 20%	≤ 5%	--	> 6

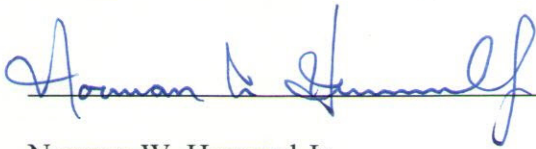
- 1 Hummel & Co. Inc. SOP
- 2 ≤ 3% clay, ≤ 5% silt
- 3 ASTM F1647, method 1
- 4 ASTM F-1815

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Comments: The Sable Lave #1 mm sand sample (Lab ID. No. 32092-1) was tested as received and the results were compared to the USGA Guidelines for green construction. Per your request we ran only a gradation and infiltration rate.

The results show that the mix has a particle size distribution that meets the USGA Guidelines. The infiltration rate was high, but within USGA Guidelines.

There are other performance requirements for USGA mixes, including aeration and capillary porosity. Please let me know if you have any questions or if you would like any additional testing on the sample. Thank you.

A handwritten signature in blue ink, reading "Norman W. Hummel Jr.", is written over a horizontal line.

Norman W. Hummel Jr.
President