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Project Name: Cambridge Pavers Lab Tests

Date Received: March 31, 2017

Date of Compression Testing: April 7, 2017

Unit Specification: ASTM C1782

Unit Designation and Description: South Amboy Plant  
24" x 24" Paving Slabs

Laboratory Number: 10- 148107

**Summary of Test Results**

Physical Property	Specification Values	Average Test Results	Physical Property	Specification Values	Average Test Results
Net Compressive Strength		<b>8810</b> <i>psi</i>	Minimum Thickness	1.2 min.	<b>2.0</b> <i>in.</i>
Gross Compressive Strength		<b>8580</b> <i>psi</i>	Length to Thickness Ratio	4 min.	<b>12</b> <i>in.</i>
Density		<b>141.3</b> <i>pcf</i>	Finished Face Area	101 min.	<b>576</b> <i>in.<sup>2</sup></i>
Absorption		<b>5.1</b> <i>pcf</i>	Compressive Net Cross-Sectional Area		<b>15.45</b> <i>in.<sup>2</sup></i>
Flexural Strength, average	725 min.	<b>1575</b> <i>psi</i>	Compressive Gross Cross-Sectional Area		<b>15.88</b> <i>in.<sup>2</sup></i>
Flexural Strength, minimum	650 min.	<b>1519</b> <i>psi</i>			

**Individual Unit Test Results**

Specimen No.	Received Wt, W <sub>R</sub> <i>lb.</i>	Cross-Sectional Area		Max. Load <i>lb</i>	Compressive Strength		Average Width <i>in.</i>	Average Thickness <i>in.</i>	Average Length <i>in.</i>
		Gross <i>in.<sup>2</sup></i>	Net <i>in.<sup>2</sup></i>		Gross <i>psi</i>	Net <i>psi</i>			
		<i>Compression Tests Reduced Size Units</i>							
4	N/A	15.82	15.32	141110	8920	9210	2.0	2.0	7.9
5	N/A	15.90	15.65	142665	8970	9110	2.0	2.0	7.9
6	N/A	15.92	15.39	124960	7850	8110	2.0	2.0	7.9
<b>Average</b>	<b>N/A</b>	<b>15.88</b>	<b>15.45</b>	<b>136245</b>	<b>8580</b>	<b>8810</b>	<b>2.0</b>	<b>2.0</b>	<b>7.9</b>

Specimen No.	Average Width <i>in.</i>	Average Thickness <i>in.</i>	Average Length <i>in.</i>	Immersed Wt, W <sub>I</sub> <i>lb</i>	Saturated Wt, W <sub>S</sub> <i>lb</i>	Oven-Dry Wt, W <sub>D</sub> <i>lb</i>	Absorption <i>pcf</i>	Density <i>pcf</i>	PerCent Solid <i>(%)</i>
<i>Absorption Tests Reduced Size Units</i>									
1	2.0	2.0	7.9	1.46	2.54	2.47	4.0	142.7	95.3
2	2.0	2.0	7.9	1.47	2.58	2.48	5.6	139.4	99.6
3	2.0	2.0	7.9	1.50	2.60	2.50	5.7	141.8	97.0
<b>Average</b>	<b>2.0</b>	<b>2.0</b>	<b>7.9</b>	<b>1.48</b>	<b>2.57</b>	<b>2.48</b>	<b>5.1</b>	<b>141.3</b>	<b>97.3</b>

Specimen No.	Received Wt, W <sub>R</sub> ** <i>lb</i>	Average Width <i>in.</i>	Average Thickness <i>in.</i>	Average Length <i>in.</i>	Gross Area <i>in.<sup>2</sup></i>	Flexural Load <i>lb.</i>	Flexural Strength <i>psi</i>	Moisture Content** % of total absorption
<i>Flexural Tests Reduced Size Units</i>								
1	N/A	12.0	2.0	12.0	143.40	4495	1632	N/A
2	N/A	11.9	2.0	12.0	141.73	4175	1519	N/A
3	N/A	11.8	2.0	11.9	140.30	4670	1701	N/A
4	N/A	11.8	2.0	12.0	140.77	4325	1629	N/A
<b>Average</b>	<b>N/A</b>	<b>11.9</b>	<b>2.0</b>	<b>11.9</b>	<b>141.55</b>	<b>4416</b>	<b>1575</b>	<b>N/A</b>

\*\*Received weight determined at the time of unit delivery to the job site or from units sampled at that time and delivered to the laboratory in sealed containers for moisture content determination.

Remarks: The units were tested according to ASTM C1782 and C140. This sample meets the requirements of ASTM C1782.



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Laboratory Manager