October 25, 2011

Concrete Lumber Company
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Fairless Hills, PA 19030

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Subject: **ASTM C666-08 - Freeze/Thaw Durability Testing**
Product Name: Concrete Lumber Profile Cylinders
TEC Services Project No. TEC 11-0856
TEC Lab No. 11-421

Testing, Engineering and Consulting Services, Inc. (TEC Services), an AASHTO R18 and ISO 17025 accredited, independent testing laboratory, is pleased to present this final report of results for the testing performed on the three submitted 4" x 8" Concrete Cylinders at our Lawrenceville, GA facility in October of 2011. Samples were received in August of 2011. Testing for freeze and thawing resistance was performed in accordance with ASTM C666-08 *Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing – Procedure A.* Samples were tested until completion of 300 cycles. This work was carried out in accordance with our Service Agreement (TEC-PRO-10-0856). The test results presented only pertain to the samples tested. Test results are reported in Table 1 attached to this report.

Testing, Engineering and Consulting Services, Inc. appreciates the opportunity to provide our professional services for this important project. If you have any questions regarding this report, or if we can be of further assistance please contact us at 770-995-8000.

Sincerely,

TESTING, ENGINEERING & CONSULTING SERVICES, INC.

James G. McCants III
Chemist, Project Manager

Shawn P. McCormick
Laboratory Manager

Attachments: Table 1 – ASTM C666 Test Results

Table 1 – ASTM C666 Freeze/Thaw Durability Test Results for 4” x 8” Cylinders

Completed Cycles	Fundamental Transverse Frequency (kHz)			Relative Dynamic Modulus (%)			
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3	**Average**
0	5.234	5.176	5.293				
30	5.234	5.176	5.293	100	100	100	**100**
66	5.215	5.176	5.215	99	100	97	**99**
100	5.215	5.176	5.215	99	100	97	**99**
135	5.234	5.137	5.176	100	98	96	**98**
158	5.215	5.059	5.156	99	96	95	**97**
190	5.215	5.156	5.156	99	99	95	**98**
226	5.215	5.078	5.156	99	96	95	**97**
254	5.215	5.117	5.156	99	98	95	**97**
284	5.215	5.117	5.156	99	98	95	**97**
322	5.215	5.117	5.156	99	98	95	**97**
Length Change (%)				0.0	0.0	0.0	0.0
Weight Loss (%)				0.0	0.0	0.0	0.0