

October 12, 2018

Mr. Kevin McGowan  
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Subject: **Report of Results for ASTM C67 Freeze/Thaw Testing**  
**Product Designation: Planc Stone Veneer**  
**TEC Services Project No: 15-0718**  
**TEC Laboratory No: 18-807**

Dear Mr. McGowan:

Testing, Engineering and Consulting Services, Inc. (TEC Services) is an AASTHO R18, ANS/ISO/IEC 17025:2005 and Army Corp of Engineers accredited laboratory. TEC Services is pleased to present this report of our test results on the submitted stone samples designated as “Planc Stone Veneer”. The stone samples were delivered to our Lawrenceville, GA facility in July of 2018. Our services were performed in accordance with the terms and conditions of our Service Agreement TEC-PRO-15-0718. The test results presented only pertain to the samples tested.

Freeze/Thaw testing was performed in accordance with ASTM C 67-18 *Standard Test Method for Sampling and Testing Brick and Structural Clay Tile*, Section 9. Before, during, and after testing the specimens were visually inspected for cracking. A crack is defined by ASTM C67 as a fissure or separation visible to a person with normal vision from a distance of one foot under an illumination of not less than 50 fc. The specimens exhibited no signs of cracking after the completion of the 50 freeze/thaw cycles. Results of the freeze/thaw testing are reported in Table 1.

**Table 1 – Results of ASTM C67 Freeze/Thaw Resistance Testing**

Specimen Number:	#1	#2	#3	#4	#5	#6	#7	Average
Initial Weight: (g)	340.85	323.72	340.66	327.88	358.48	360.97	349.29	<b>343.12</b>
Final Dry Weight: (g)	340.73	323.51	340.46	327.67	358.29	360.78	349.06	<b>342.93</b>
Weight Loss: (%)	0.04	0.06	0.06	0.06	0.05	0.05	0.07	<b>0.06</b>

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.**



Chip P. Sherwood Jr.  
 Project Manager



Shawn P. McCormick  
 Laboratory Principal