



**FROEHLING & ROBERTSON, INC**  
GEOTECHNICAL • ENVIRONMENTAL • MATERIALS  
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"OVER ONE HUNDRED YEARS OF SERVICE"

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May 18, 2007

**LIGHTWEIGHT AGGREGATE TEST REPORT**

**PROJECT NO.:** F60-0820T  
**CONTROL NO.:** 60-05-94093  
**CLIENT:** Solite - LLC  
State Route 652, P.O. Box 68  
Arvon, Virginia 23004  
Attn: Ray Shores  
**PROJECT:** Aggregate Certification - No. 10 Material  
**STANDARDS:** ASTM C 331-04, AASHTO M195-04 and UL 618

<u>Sieve Size (mm)</u>	<u>No. 10 Material</u>	<u>C 331 Specifications</u>
3/8" (9.5)	100	100
#4 (4.75)	92.1	85-100
#8 (2.36)	63.0	---
#16 (1.18)	40.7	40-80
#30 (600 microns)	26.9	---
#50 (300 microns)	18.8	10-35
#100 (150 microns)	13.8	5-25
Organic Impurities (Color): C 40	No Change	≤3 (Standard)
Clay Lumps (%): C 142	0	2.0
Loss on Ignition (%): C 618	0.02	≤5.0
Popouts: C 331	None	None
Dry Loose Unit Wt. lbs/ft <sup>3</sup> (kg/m <sup>3</sup> ): C 29	61.6 (986)	70 (1,120) max.
Dry Rodded Unit Wt. lbs/ft <sup>3</sup> (kg/m <sup>3</sup> ): C 29	67.2 (1,075)	---
Shrinkage @ 28 Days (%): C 331	0.015	≤0.10
Shrinkage @ 100 Days (%): C 331	0.030	---
Stain Test (Index): C 641	No Stain (20)	<60

The above results meet the requirements of ASTM C331-04, AASHTO M195-04 and UL 618.

Should you have any questions about these test results or require additional information or testing, please contact us at your convenience.

Respectfully Submitted,  
**FROEHLING & ROBERTSON, INC.**

Robert A. Hill, III, P.E.  
CMT Manager

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