

AMBER CONSULTING COMPANY

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March 22, 2018

Brad Jones, Jr.  
Buckingham Slate Company  
P. O. Box 8  
Arvonias, Virginia 23004-0008

Dear Mr. Jones:

Buckingham Slate from the Arvonias Quarry in Arvonias, Virginia was tested per ASTM specifications. A summary of the results is as follows:

1. Water Absorption, C121-15, 0.073% (ASTM max. for S1 slate is 0.25%).
2. Flexure, C120-15, Breaking Load 843 lbs, Ave. thickness 0.294 in.  
(ASTM min. for S1 slate is 575 lbs)
3. Weather Resistance, C217-15, 0.0003 in. (ASTM max. for S1 slate is 0.002 in.)

Tables 1, 2 and 3 list the individual tests. From the specimens tested, this variety of roofing slate qualifies as a S1 grade slate (75+ years projected life) per the requirements of ASTM C406-15 (Specification for Roofing Slate).

Modulus of Rupture tests were conducted on a Tinius Olsen Testing Machine calibrated January 2016. The Weather Resistance tests were conducted using the hand scraping method. Thickness measurements were taken at three (3) different locations along the scrape track. The average depth of softening was recorded.

Please let us know if we can be of further assistance.

Very truly yours,

Thomas H. Olson  
Test Engineer

Enclosure: Page 2 – Results  
Invoice