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Vermont Slate Company
Attn: Lucas Severance
2600 Loisville Rd.
Savannah, GA 31415

August 20, 2018

Dear Mr. Severance:

Heavy 3 Roofing Slate from the Solana de Forcadas quarry in San Petro de Trones (Leon) Spain was tested per ASTM specifications. A summary of the results is as follows:

1. Water Absorption, C121-15, **0.118% (ASTM max. for S1 slate is 0.25%).**
2. Flexure, C120-15, Breaking Load **915 lbs, Ave. thickness 0.292 in. (ASTM min. for S1 slate is 575 lbs)**
3. Weather Resistance, C217-15, **0.0006 in. (ASTM max. for S1 slate is 0.002 in.)**

Tables 1, 2 and 3 list the individual test results. From the specimens tested, this variety of roofing slate qualifies as a S1 grade slate (75+ 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 2017. 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.

Thomas H. Olson
Test Engineer

Enclosure: Page 2 – Results

ASTM Test Results

Heavy 3 Roofing Slate
For: Vermont Slate Company
By: Amber Consulting Co.
08/20/18

Quarry: Solana de Forcadas
San Pedro de Trones (Leon), Spain

TABLE 1- Water Absorption-C121

Specimen No.	Absorption (%)
3VC1A	0.108
3VC2A	0.122
3VC3A	0.119
3VC4A	0.112
3VC5A	0.123
3VC6A	0.122
Average	0.118% (S1 max 0.250%)

TABLE 2- Flexural Strength- C120

Specimen No.	Breaking Load (lbs.)	Thickness (in.)
3VC1R	641	0.254
3VC2R	1008	0.290
3VC3R	787	0.275
3VC4R	905	0.293
3VC5R	1036	0.299
3VC6R	744	0.267
3VC7R	807	0.288
3VC8R	1143	0.312
3VC9R	1025	0.331
3VC10R	1050	0.315
Average	915 lb.	0.292 in.(S1 min. 575 lbs)

TABLE 3- Weather Resistance-C217

Specimen No.	Depth of Softening (in.)
3VC1W	0.0005
3VC2W	0.0006
3VC3W	0.0008
Average	0.0006 in (S1 max 0.002 in.)