

AMBER CONSULTING COMPANY

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October 27, 2020

California Slate Company
Attn: Katie O'Rourke
3344 Market Street
San Francisco, California 94114

Dear Ms. O'Rourke,

ASTM C406 testing of Sierra Gray Roofing Slate was completed on October 24th. A summary of the results are as follows:

1. Water Absorption, C121-20.
0.13% (ASTM max. for S1 slate is 0.25%).
2. Flexure (Breaking Load), C120-19.
584 lbs, thickness 0.29 in. (ASTM min. for S1 slate is 575 lbs.).
3. Weather Resistance (Depth of Softening), C217-20.
0.0004 in. (ASTM max. for S1 slate is 0.002 in.)

Tables 1, 2 and 3 list the individual tests results. From the specimens tested, this Roofing Slate qualifies as a S1 grade (75+ year 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 2014. 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 (Detailed Results)

FINAL RESULTS - California Slate Co - 3344 Market Street - San Francisco, California
 ROOFING SLATE – Sierra Gray

TABLE 1- WATER ABSORPTION (C121)

Specimen No.	Absorption %
CSG1A	0.15
CSG2A	0.11
CSG3A	0.13
CSG4A	0.14
CSG5A	0.11
CSG6A	0.13
Average	0.13% (S1 max 0.25%)

TABLE 2- FLEXURE -Breaking Load (C120)

Specimen No.	Breaking Load lbs	Thickness in
CSG1R	584	0.28
CSG2R	727	0.30
CSG3R	593	0.29
CSG4R	436	0.26
CSG5R	465	0.27
CSG6R	745	0.32
CSG7R	585	0.29
CSG8R	490	0.31
CSG9R	565	0.28
CSG10R	450	0.27
Average	584 lbs.	0.29 in. (S1 min 575 lbs)

TABLE 3- WEATHER RESISTANCE (C217)

Specimen No.	Depth of Softening inches
CSG1W	0.0004
CSG2W	0.0004
CSG3W	0.0005
Average	0.0004 in. (S1 max 0.002 in)