

AMBER CONSULTING COMPANY
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Pittsford, Vermont 05763
(802) 775-1650

Dave Lundy
Hilltop Slate
P.O. Box 201
Middle Granville, NY 12849

Dear Mr. Lundy:

Semi Weathering Gray Slate from the Wells Northeast Quarry was tested per ASTM specifications. A summary of the results is as follows:

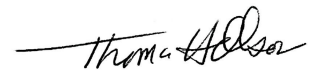
1. Water Absorption, C121-06, 0.163% (ASTM max. For S1 slate is 0.25%).
2. Modulus of Rupture, C120-06, 611 lbs, Ave. thickness 0.253 in. (ASTM min. For S1 slate is 575 lbs)
3. Weather Resistance, C217-94, 0.0019 in. (ASTM max. For S1 slate is 0.002 in.)

Tables 1,2 and 3 list the individual tests. From the specimens tested, this variety of roofing slate does qualify as a S1 slate.

Modulus of Rupture tests were conducted on a Tinius Olsen Testing Machine calibrated October 2018. 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,N



Thomas H. Olson
Test Engineer

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Semi Weathering Gray - Wells Northeast Quarry

TABLE 1 - WATER ABSORPTION
Average 0.163%

Specimen No.	Absorption %
1	0.155
2	0.164
3	0.160
4	0.180
5	0.163
6	0.150

TABLE 2 - MODULUS OF RUPTURE
Average 584lbs 0.275 in

Specimen No.	Load lbs.	Thick in
1	790	0.254
2	510	0.221
3	915	0.279
4	448	0.252
5	673	0.247
6	615	0.251
7	445	0.230
8	520	0.264
9	611	0.253
10	583	0.279

TABLE 3 - WEATHER RESISTANCE
Average 0.0019 in.

Specimen No.	Depth of Softening in.
1	0.0024
2	0.0013
3	0.0020