

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

Dear Mr. Lundy:

Unfading 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, 0.200% (ASTM max. For S1 slate is 0.25%).
2. Modulus of Rupture, C120-06, 684 lbs, Ave. thickness 0.274 in. (ASTM min. For S1 slate is 575 lbs)
3. Weather Resistance, C217-94, 0.0006 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

AMBER CONSULTING COMPANY

Unfading Gray - Wells Northeast Quarry

TABLE 1 - WATER ABSORPTION
Average 0.200%

Specimen No.	Absorption %
1	0.202
2	0.172
3	0.199
4	0.195
5	0.200
6	0.205

TABLE 2 - MODULUS OF RUPTURE
Average 684lbs 0.274 in

Specimen No.	Load lbs.	Thick in
1	723	0.268
2	770	0.272
3	845	0.336
4	725	0.273
5	660	0.267
6	500	0.251
7	743	0.271
8	515	0.249
9	535	0.200
10	834	0.274

TABLE 3 - WEATHER RESISTANCE
Average 0.0006 in.

Specimen No.	Depth of Softening in.
1	0.0010
2	0.0004
3	0.0005