

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

1. Water Absorption, C121-06, 0.139% (ASTM max. For S1 slate is 0.25%).
2. Modulus of Rupture, C120-06, 616 lbs, Ave. thickness 0.253 in. (ASTM min. For S1 slate is 575 lbs)
3. Weather Resistance, C217-94, 0.0004 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.

Mottled Purple - Wells Northeast Quarry

TABLE 1 - WATER ABSORPTION
Average 0.139%

Specimen No.	Absorption %
1	0.143
2	0.133
3	0.126
4	0.129
5	0.154
6	0.151

TABLE 2 - MODULUS OF RUPTURE
Average 616lbs 0.294 in

Specimen No.	Load lbs.	Thick in
1	660	0.306
2	402	0.262
3	603	0.306
4	940	0.346
5	563	0.279
6	575	0.304
7	632	0.277
8	616	0.294
9	652	0.250
10	517	0.316

TABLE 3 - WEATHER RESISTANCE
Average 0.0004 in.

Specimen No.	Depth of Softening in.
1	0.0002
2	0.0001
3	0.0009