



American Granite Curb Producers

Old Berkshire Granite

Client:	Williams Stone Co. Inc.	Project:	Old Berkshire Granite
Material:	Old Berkshire Granite	Project Number:	130082
Source:	Berkshire, MA	Lab Number:	13-0092A
Date Sampled:	2/22/2013	Sampled By:	Client
Date Tested:	3/1/2013	Tested By:	John Brinsfield

Report of Compressive Strength of Dimension Stone							
Test Method: ASTM C170							
Stone Type: Granite							
Specimen	Fabric Dip	Height	Width 1	Width 2	Area in ²	Load, lbs	Compressive Strength, psi
1	N/A	2.970	3.016	2.980	8.99	241850	26900
2	N/A	2.970	3.021	3.007	9.08	244530	26900
3	N/A	2.968	3.020	2.987	9.02	243850	27000
4	N/A	2.980	3.026	3.008	9.10	252580	27700
5	N/A	2.966	3.022	2.999	9.06	240340	26500
Avg							27000

- All dimensions in inches. Height to width ratio was approximately 1:1.
- Specimens were tested in an air-dry condition.
- The dip of the rock fabric (layering and/or mineral elongation) is the angle between horizontal and the fabric, as tested. Load was applied in a vertical direction.

Report of Flexural Strength of Dimension Stone Testing						
Test Method: ASTM C 880						
Stone Type: Granite		Preconditioning Procedure: Air Dry				
Sample#	Dry Weight (g)	Span (in.)	Width (in.)	Depth (in.)	Load lbs.	Flexural Strength
1	3276.9	12.50	3.98	1.27	1680	2440
2	3308.8	12.50	3.99	1.28	1760	2519
3	3261.5	12.50	3.99	1.27	1670	2450
4	3264.3	12.50	4.00	1.6	1680	2490
5	3298.4	12.50	4.01	1.27	1740	2521
Avg						2484

- Specimens were saw-cut for testing by the client.
- Rift orientation: The rift of the stone was oriented perpendicular to the load and parallel to the length of the specimens as tested.
- Standard deviation 37.7

Absorption and Bulk Specific Gravity of Dimension Stone						
Test Method: ASTM C97						
Sample Number	Dry Weight	SSD* Weight	Weight in Water	Absorption, % of Dry Weight	Bulk Specific Gravity	Units Weight lbs/cu ft
1	1162.58	1164.80	728.12	0.19	2.662	166.2
2	1165.86	1167.40	729.52	0.13	2.663	166.2
3	1165.58	1168.19	729.22	0.22	2.655	165.8
4	1164.90	1167.19	729.73	0.20	2.663	166.2
5	1173.51	1175.84	734.63	0.20	2.660	166.0
Avg				0.19	2.661	166.1

*Saturated surface-dry. All weights are in grams.



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Old Berkshire Granite

Client:	Williams Stone Co. Inc.	Project:	Old Berkshire Granite
Material:	Old Berkshire Granite	Project Number:	130082
Source:	Berkshire, MA	Lab Number:	13-0092B
Date Sampled:	2/22/2013	Sampled By:	Client
Date Tested:	2/28/2013	Tested By:	John Brinsfield

Report of Compressive Strength of Dimension Stone							
Test Method: ASTM C170							
Stone Type: Granite							
Specimen	Fabric Dip	Height	Width 1	Width 2	Area in ²	Load, lbs	Compressive Strength, psi
1	0	2.967	3.020	2.999	9.06	216830	23900
2	0	2.988	3.019	3.023	9.13	226910	24900
3	0	2.975	3.017	2.990	9.02	193450	21400
4	0	2.977	3.021	2.979	9.00	221220	24600
5	0	2.986	3.021	3.008	9.09	233030	25600
Avg							24100

- All dimensions in inches. Height to width ratio was approximately 1:1.
- Specimens were tested in a saturated] condition.
- The dip of the rock fabric (layering and/or mineral elongation) is the angle between horizontal and the fabric, as tested. Load was applied in a vertical direction.

Report of Flexural Strength of Dimension Stone Testing						
Test Method: ASTM C 880						
Stone Type: Granite		Preconditioning Procedure: Moist Condition				
Sample#	Dry Weight (g)	Span (in.)	Width (in.)	Depth (in.)	Load lbs.	Flexural Strength
1	3295.6	12.50	4.01	1.27	1580	2302
2	3275.9	12.50	3.99	1.27	1500	2197
3	3286.2	12.50	3.99	1.26	1480	2210
4	3277.3	12.50	3.98	1.27	1570	2295
5	3255.2	12.50	3.98	1.26	1520	2249
Avg						2251

- Specimens were saw-cut for testing by the client.
- Rift orientation: The rift of the stone was oriented perpendicular to the load and parallel to the length of the specimens as tested.
- Standard deviation 47.7



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