



3348 Route 208, Campbell Hall, NY 10916
 Phone: 845-496-1600 Fax: 845-496-1398
 25 Hathorn Road, Enfield, NH 03748
 42 Day Farm Road, West Stockbridge, MA 01266
 1813 State Route 7, Harpursville, NY 13787

Client:	Williams Stone Co. Inc.	Project:	Blue Sky and Moonlit Rose Gr
Item:	Blue Sky Gray (WET)	Project No.:	120116
Source:	Blue Sky Quarry	Lab No.:	14-0072B
Date Sampled:	2/6/2014	Sampled By:	Client
Date Tested:	2/18/2014	Tested By:	M.Foster

MODULUS OF RUPTURE OF DIMENSION STONE
Test Method: ASTM C99

ITEM: Blue Sky Gray
 DESCRIPTION: Blue Gray Granite
 NOMINAL DIMENSIONS OF TEST SPECIMENS: 2-1/4x4x8 inches
 TEST SPAN LENGTH: 7.00 inches

TEST RESULTS

ORIENTATION*: There was no discernible rift direction.
 CONDITION: Wet

SPECIMEN NO.	WIDTH, IN.	THICKNESS, IN.	BREAKING LOAD, LBS.	MODULUS OF RUPTURE, PSI
1	3.968	2.283	4470	2269
2	3.990	2.300	4560	2268
3	3.978	2.301	4790	2388
4	4.005	2.279	4870	2458
5	3.994	2.288	4710	2365
Average				2350
Specification				

* The rift is the plane on which the rock splits most easily.
 Specimens were saw-cut for testing by the client.

Emily J. Rodriguez

Report reviewed by: _____



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Client:	Williams Stone Co. Inc.	Project:	Blue Sky and Moonlit Rose Gr
Item:	Blue Sky Gray	Project No.:	120116
Source:	Blue Sky Quarry	Lab No.:	14-0072A
Date Sampled:	2/6/2014	Sampled By:	Client
Date Tested:	2/18/2014	Tested By:	M.Foster

MODULUS OF RUPTURE OF DIMENSION STONE
Test Method: ASTM C99

ITEM: Blue Sky Gray
 DESCRIPTION: Blue Gray Granite
 NOMINAL DIMENSIONS OF TEST SPECIMENS: 2-1/4x4x8 inches
 TEST SPAN LENGTH: 7.00 inches

TEST RESULTS

ORIENTATION*: There was no discernible rift direction.
 CONDITION: Dry

SPECIMEN NO.	WIDTH, IN.	THICKNESS, IN.	BREAKING LOAD, LBS.	MODULUS OF RUPTURE, PSI
1	3.984	2.269	4520	2314
2	3.993	2.266	4400	2253
3	3.993	2.264	4330	2221
4	3.981	2.294	4190	2100
5	3.999	2.315	3840	1881
Average				2154
Specification				

* The rift is the plane on which the rock splits most easily.
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Client:	Williams Stone Co. Inc.	Project:	Blue Sky and Moonlit Rose Granite
Item:	Blue Sky Gray (WET)	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0072B
Date Sampled	2/6/2014	Sampled By:	Client
Date Tested:	2/17/2014	Tested By:	John Brinsfield

Report of Flexural Strength of Dimension Stone Testing
Test Method: ASTM C 880

Stone Type: Granite
Preconditioning Procedure: Wet

Sample #	Dry Weight (g)	Span (in.)	Width (in.)	Depth (in.)	Load lbs.	Flexural Strength,
1	3264.6	12.50	3.98	1.29	1120	1589
2	3185.2	12.50	4.00	1.24	1370	2097
3	3139.0	12.50	3.95	1.25	1220	1864
4	3128.5	12.50	3.98	1.24	1300	2009
5	3196.9	12.50	4.02	1.24	1380	2080
Average						1928

Standard Deviation: 210.4

Notes: Specimens were saw-cut for testing by the client.

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Client:	Williams Stone Co. Inc.	Project:	Blue Sky and Moonlit Rose Granite
Item:	Blue Sky Gray	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0072A
Date Sampled	2/6/2014	Sampled By:	Client
Date Tested:	2/17/2014	Tested By:	John Brinsfield

Report of Flexural Strength of Dimension Stone Testing
Test Method: ASTM C 880

Stone Type: Granite
Preconditioning Procedure: Oven Dry

Sample #	Dry Weight (g)	Span (in.)	Width (in.)	Depth (in.)	Load lbs.	Flexural Strength,
1	3347.2	12.50	4.08	1.27	1780	2520
2	3205.7	12.50	4.05	1.24	1550	2340
3	3168.9	12.50	3.99	1.24	1600	2441
4	3112.9	12.50	3.98	1.23	1630	2554
5	3199.1	12.50	4.00	1.23	1550	2399
Average						2451

Standard Deviation: 87.4

Notes: Specimens were saw-cut for testing by the client.

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Client:	Williams Stone Co. Inc.	Project:	Blue Sky and Moonlit Ro
Item:	Blue Sky Gray (WET)	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0072B
Date Sampled:	2/6/2014	Date Tested:	2/17/2014
Sampled By:	Client	Tested By:	Kevin Parrish

Report of Compressive Strength of Dimension Stone
Test Method: ASTM C170

Specimen	Fabric Dip	Height	Width 1	Width 2	Area, in ²	Load, lbs	Compressive Strength, psi
A	N/A	3.055	2.960	3.012	8.92	195540	21900
B	N/A	3.026	3.017	3.049	9.20	243830	26500
C	N/A	2.986	2.985	3.051	9.11	213730	23500
D	N/A	2.979	3.014	3.047	9.18	182750	19900
E	N/A	3.035	2.986	3.091	9.23	182500	19800
Avg							22300

NOTES

1. All dimensions in inches. Height to width ratio was approximately 1:1.
2. Specimens were tested in a saturated condition.
3. Rock Type:
4. 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.

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Client:	Williams Stone Co. Inc.	Project:	Blue Sky and Moonlit Ro
Item:	Blue Sky Gray	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0072A
Date Sampled:	2/6/2014	Date Tested:	2/19/2014
Sampled By:	Client	Tested By:	Kevin Parrish

Report of Compressive Strength of Dimension Stone
Test Method: ASTM C170

Specimen	Fabric Dip	Height	Width 1	Width 2	Area, in ²	Load, lbs	Compressive Strength, psi
A	N/A	3.076	2.999	3.005	9.01	265980	29500
B	N/A	3.050	2.990	2.992	8.95	233570	26100
C	N/A	3.006	3.019	3.002	9.06	273680	30200
D	N/A	3.046	2.984	3.035	9.06	275220	30400
E	N/A	3.065	2.984	3.019	9.01	270070	30000
Avg							29200

NOTES

1. All dimensions in inches. Height to width ratio was approximately 1:1.
2. Specimens were tested in an air-dry condition.
3. Rock Type:
4. 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.

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3348 Route 208, Campbell Hall, NY 10916
Phone: 845-496-1600 Fax: 845-496-1398
12960 Commerce Lakes Drive, A14, Fort Myers, FL 33913
42 Day Farm Road, West Stockbridge, MA 01266
1813 State Route 7, Harpursville, NY 13787

Client: Williams Stone Co. Inc.	Project: Blue Sky and Moonlit Rose Granite
Material: Blue Sky Gray	Project Number: 120116
Source: Blue Sky Quarry	Lab Number: 14-0072A
Date Sampled: 2/6/2014	Sampled By: Client
Date Tested: 2/24/2014	Tested By: John Brinsfield

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	Unit Weight lbs/cu ft
1	1183.52	1186.76	737.33	0.27	2.633	164.4
2	1159.07	1162.27	722.06	0.28	2.633	164.4
3	1161.45	1164.49	723.84	0.26	2.636	164.6
4	1164.90	1167.78	725.70	0.25	2.635	164.5
5	1164.94	1167.96	725.80	0.26	2.635	164.5
Average				0.26	2.634	164.5

*Saturated Surface-Dry. All weights are in grams.

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