



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: Moonlite Rose (WET)	Project No.: 120116
Source: Blue Sky Quarry	Lab No.: 14-0071B
Date Sampled: 2/12/2014	Sampled By: Client
Date Tested: 2/18/2014	Tested By: M.Foster

MODULUS OF RUPTURE OF DIMENSION STONE
Test Method: ASTM C99

ITEM: Moonlite Rose
 DESCRIPTION: Rose 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	4.005	2.269	3960	2017
2	4.039	2.283	3940	1965
3	4.037	2.29	5360	2658
4	4.021	2.342	4300	2047
5	4.000	2.283	5180	2609
Average				2259
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: Moonlite Rose	Project No.: 120116
Source: Blue Sky Quarry	Lab No.: 14-0071A
Date Sampled: 2/12/2014	Sampled By: Client
Date Tested: 2/18/2014	Tested By: M.Foster

MODULUS OF RUPTURE OF DIMENSION STONE
Test Method: ASTM C99

ITEM: Moonlite Rose
 DESCRIPTION: Rose 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	4.008	2.233	6250	3284
2	3.994	2.243	6120	3198
3	4.001	2.229	6010	3174
4	4.01	2.285	5870	2947
5	4.003	2.233	5610	2951
Average				3111
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:	Moonlite Rose (WET)	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0071A
Date Sampled	2/6/2014	Sampled By:	Client
Date Tested:	2/18/2014	Tested By:	M.Foster

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	3420.0	12.50	4.00	1.34	1530	2012
2	3384.3	12.50	3.98	1.32	1820	2445
3	3312.8	12.50	4.01	1.28	1080	1546
4	3380.8	12.50	3.99	1.31	1340	1829
5	3220.2	12.50	3.97	1.25	1220	1833
Average						1933

Standard Deviation: 331.2

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:	Moonlite Rose	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0071A
Date Sampled	2/6/2014	Sampled By:	Client
Date Tested:	2/18/2014	Tested By:	M.Foster

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	3232.1	12.50	4.00	1.25	1480	2215
2	3386.8	12.50	3.98	1.32	1770	2388
3	3228.5	12.50	4.00	1.25	1690	2548
4	3402.2	12.50	3.98	1.33	1970	2639
5	3214.7	12.50	3.98	1.24	1460	2235
Average						2405

Standard Deviation: 187.2

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:	Moonlite Rose (WET)	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0071B
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	0	3.073	3.004	3.002	9.02	177720	19700
B	0	3.018	3.009	3.015	9.07	131150	14500
C	0	3.001	3.025	3.033	9.17	135770	14800
D	0	3.026	3.000	3.015	9.05	151800	16800
E	0	3.021	3.008	2.996	9.01	183000	20300
Avg							17200

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:	Moonlite Rose	Project #:	120116
Source:	Blue Sky Quarry	Lab #:	14-0071A
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	3.068	3.023	3.006	9.09	256940	28300
B	N/A	3.062	3.010	3.013	9.07	275030	30300
C	N/A	3.033	3.011	3.012	9.07	262150	28900
D	N/A	3.021	3.019	2.988	9.02	271610	30100
E	N/A	3.067	3.011	3.003	9.04	244000	27000
Avg							28900

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:	Moonlite Rose	Project Number:	120116
Source:	Blue Sky Quarry	Lab Number:	14-0071A
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	1163.12	1165.71	724.15	0.22	2.634	164.4
2	1185.95	1188.93	738.11	0.25	2.631	164.2
3	1191.64	1194.60	742.41	0.25	2.635	164.5
4	1180.47	1183.13	735.01	0.23	2.634	164.5
5	1200.20	1203.15	747.30	0.25	2.633	164.4
Average				0.24	2.633	164.4

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

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