



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:	Royal Perla, LLC	Project:	Dimensional Stone Testing
Item:	Dimensional Stone	Project #:	140427
Source:	Royal Perla	Lab #:	14-0588A
Date Sampled	7/1/2014	Sampled By:	Client
Date Tested:	7/11/2014	Tested By:	John Brinsfield

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

Stone Type: Dimensional Stone
Preconditioning Procedure: Dry

Sample #	Dry Weight (g)	Span (in.)	Width (in.)	Depth (in.)	Load lbs.	Flexural Strength,
1	3102.7	12.50	4.00	1.20	1310	2132
2	3115.0	12.50	4.00	1.21	1320	2113
3	3164.0	12.50	4.04	1.23	1500	2301
4	3196.0	12.50	3.99	1.21	1300	2086
5	3124.2	12.50	4.00	1.20	1470	2393
Average	3140.38	12.5	4.006	1.210		2205

Standard Deviation: 134.4

Notes:

Rift Orientation:

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Client:	Royal Perla, LLC	Project:	Dimensional Stone Testing
Material:	Dimensional Stone	Project Number:	140427
Source:	Royal Perla	Lab Number:	14-0588A
Date Sampled:	7/1/2014	Sampled By:	Client
Date Tested:	7/14/2014	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	331.80	332.86	209.97	0.32	2.700	168.6
2	335.97	337.01	212.45	0.31	2.697	168.4
3	331.74	332.89	209.77	0.35	2.694	168.2
4	333.07	334.19	210.65	0.34	2.696	168.3
5	334.02	335.27	211.29	0.37	2.694	168.2
Average				0.34	2.696	168.3

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

Emily J. Rodriguez

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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	3.021	3.105	2.975	9.24	249350	27000
B	0	3.081	3.038	3.030	9.21	238100	25900
C	0	3.074	2.955	3.070	9.07	199670	22000
D	0	3.085	3.048	3.004	9.16	229660	25100
E	0	2.098	3.044	3.061	9.32	236140	25300
Avg							25100

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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Client:	Royal Perla, LLC	Project:	Royal Perla
Item:	Italian Stone	Project #:	140727
Source:	Royal Perla, LLC	Lab #:	14-0977
Date Sampled:	10/10/2014	Sampled By:	Client
Date Tested:	10/27/14 - 12/2/14	Tested By:	John Brinsfield

Evaluation of Durability of Rock for Erosion Control Under Freezing and Thawing Conditions

Test Method: ASTM D 5312

Number of Cycles:

25

Specimen	Sample Mass (g)	Sample Mass after Test (g)	Percent Loss
1	3649.0	3647.1	0.05%
2	3659.6	3657.8	0.05%
3	3639.9	3637.0	0.08%
4	3622.2	3620.3	0.05%
5	3651.9	3650.2	0.05%
Average			0%
Specification			

Principal Form of Degradation: Flaking

Sample Composition: Stone.

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Advance Testing

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Item:	Italian Stone	Project #:	140727
Source:	Royal Perla, LLC	Lab #:	14-0977
Date Sampled:	10/10/2014	Sampled By:	Client
Date Tested:	10/27/14 - 12/2/14	Tested By:	John Brinsfield

Evaluation of Durability of Rock for Erosion Control Under Freezing and Thawing Conditions

Test Method: ASTM D 5312

Photos of sample before and after testing.

BEFORE:



AFTER:

