



Report of Physical Property Tests

Test Specimens Provided by: **Las Vegas Rock, Inc.**
PO Box 19118
Jean, NV 89019

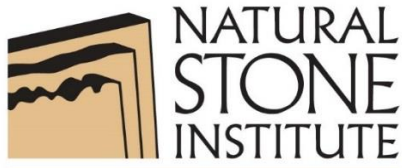
Trade Name of Material: **Metaquartzite**
Finish: **Honed**
Country of Origin: **USA**
Test Procedure: **ASTM C 880 Standard Test Method for Flexural Strength of Dimension Stone**
Rift Orientation: **Perpendicular**
Preconditioning: **Wet**

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure (lbs)	Flexural Strength (lbs/in ²)	Flexural Strength (MPa)
PP-W-C880-1	12.50	4.00	1.22	670	1,060	7.3
PP-W-C880-2	12.50	4.00	1.24	1,040	1,590	10.9
PP-W-C880-3	12.50	4.02	1.29	1,280	1,790	12.4
PP-W-C880-4	12.50	4.02	1.21	810	1,290	8.9
PP-W-C880-5	12.50	4.00	1.23	760	1,180	8.1

Average Flexural Strength: **1,380** **9.5**
Standard Deviation: **301** **2.1**
Coefficient of Variation: **21.8%** **22.0%**

Date of Tests: **Thursday, 30 August, 2018**
Tests performed by: **R. Lawson**
Report and Data Reviewed by: **C. Muehlbauer**

These tests were performed on a Applied Testing Systems Universal Testing Machine Model 910. Loads were measured on Interface Model 1020AF-12.5K-B Load Cell, Serial No. 561415A, Last Date of Calibration: August 21, 2018, traceable to the National Institute of Standards Technology (NIST).



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Rift Orientation: **Perpendicular**
Preconditioning: **Dry**

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure (lbs)	Flexural Strength (lbs/in ²)	Flexural Strength (MPa)
PP-D-C880-6	12.50	4.00	1.28	1,150	1,650	11.3
PP-D-C880-7	12.50	4.02	1.28	1,520	2,160	14.9
PP-D-C880-8	12.50	4.01	1.25	1,160	1,740	12.0
PP-D-C880-9	12.50	4.02	1.23	970	1,500	10.3
PP-D-C880-10	12.50	4.03	1.28	1,460	2,070	14.3

Average Flexural Strength: **1,820** **12.6**
Standard Deviation: **281** **2.0**
Coefficient of Variation: **15.4%** **15.7%**

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380 E. Lorain Street • Oberlin, OH 44074
440.250.9222

www.naturalstoneinstitute.org



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Trade Name of Material: **Metaquartzite**
Finish: **Honed**
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Test Procedure: **ASTM C 880 Standard Test Method for Flexural Strength of Dimension Stone**
Rift Orientation: **Parallel**
Preconditioning: **Wet**

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure (lbs)	Flexural Strength (lbs/in ²)	Flexural Strength (MPa)
LL-W-C880-1	12.50	3.98	1.29	440	620	4.3
LL-W-C880-2	12.50	4.00	1.28	370	530	3.7
LL-W-C880-3	12.50	4.02	1.27	450	650	4.5
LL-W-C880-4	12.50	4.03	1.23	400	620	4.2
LL-W-C880-5	12.50	3.99	1.28	390	560	3.9

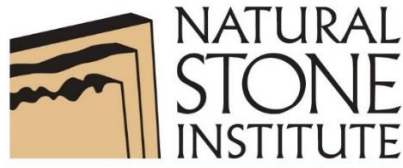
Average Flexural Strength: **600** **4.1**
Standard Deviation: **49** **0.3**
Coefficient of Variation: **8.2%** **8.3%**

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LL-D-C880-6	12.50	4.00	1.25	450	680	4.7
LL-D-C880-7	12.50	4.02	1.28	870	1,240	8.5
LL-D-C880-8	12.50	4.01	1.27	580	840	5.8
LL-D-C880-9	12.50	4.01	1.26	770	1,130	7.8
LL-D-C880-10	12.50	4.00	1.22	530	830	5.8

Average Flexural Strength: **940** **6.5**
Standard Deviation: **232** **1.6**
Coefficient of Variation: **24.7%** **24.7%**

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