



Report of Physical Property Tests

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

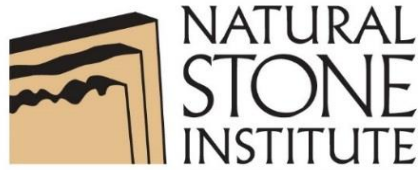
Trade Name of Material: **Metaquartzite**
Country of Origin: **USA**
Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**
Rift Orientation: **Perpendicular**
Preconditioning: **Wet**

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in²)	Load @ Failure (lbs)	Compressive Strength (lbs/in²)	Compressive Strength (MPa)
PP-W-C170-1	3.01	3.04	9.15	87,900	9,610	66.2
PP-W-C170-2	3.01	3.02	9.09	131,300	14,440	99.6
PP-W-C170-3	3.02	3.02	9.12	96,800	10,610	73.2
PP-W-C170-4	3.04	3.03	9.21	66,900	7,260	50.1
PP-W-C170-5	3.06	3.04	9.30	98,800	10,620	73.2

Average Compressive Strength: **10,510** **72.5**
Standard Deviation: **2,590** **17.9**
Coefficient of Variation: **24.6%** **24.7%**

Date of Tests: **Friday, 31 August, 2018**
Tests performed by: **R. Lawson**
Report and Data Reviewed by: **C. Muehlbauer**

These tests were performed on a Test Mark Model CM-4000-i720 Hydraulic Testing Machine, Serial No. 160618. Last Date of Calibration: August 21, 2018, traceable to the National Institute of Standards Technology (NIST).



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Trade Name of Material: **Metaquartzite**
Country of Origin: **USA**
Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**
Rift Orientation: **Perpendicular**
Preconditioning: **Dry**

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in ²)	Load @ Failure (lbs)	Compressive Strength (lbs/in ²)	Compressive Strength (MPa)
PP-D-C170-6	3.02	3.01	9.09	128,100	14,090	97.2
PP-D-C170-7	3.03	3.01	9.12	115,300	12,640	87.2
PP-D-C170-8	2.98	3.02	9.00	147,600	16,400	113.1
PP-D-C170-9	3.03	3.02	9.15	86,300	9,430	65.0
PP-D-C170-10	3.03	3.01	9.12	132,200	14,500	99.9

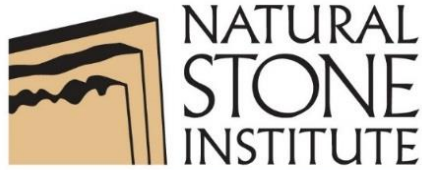
Average Compressive Strength: **13,410** **92.5**
Standard Deviation: **2,599** **17.9**
Coefficient of Variation: **19.4%** **19.4%**

Date of Tests: **Friday, 31 August, 2018**
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Trade Name of Material: **Metaquartzite**
Country of Origin: **USA**
Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**
Rift Orientation: **Parallel**
Preconditioning: **Wet**

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in ²)	Load @ Failure (lbs)	Compressive Strength (lbs/in ²)	Compressive Strength (MPa)
LL-W-C170-1	2.97	3.01	8.94	110,000	12,300	84.8
LL-W-C170-2	3.03	3.01	9.12	108,100	11,850	81.7
LL-W-C170-3	3.03	3.01	9.12	99,500	10,910	75.2
LL-W-C170-4	3.00	3.02	9.06	107,000	11,810	81.4
LL-W-C170-5	3.03	3.03	9.18	82,800	9,020	62.2
Average Compressive Strength:					11,180	77.1
Standard Deviation:					1,308	9.0
Coefficient of Variation:					11.7%	11.7%

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Country of Origin: **USA**
Test Procedure: **ASTM C 170 Standard Test Method for Compressive Strength of Dimension Stone**
Rift Orientation: **Parallel**
Preconditioning: **Dry**

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in ²)	Load @ Failure (lbs)	Compressive Strength (lbs/in ²)	Compressive Strength (MPa)
LL-D-C170-6	2.99	3.02	9.03	91,200	10,100	69.6
LL-D-C170-7	3.01	2.98	8.97	131,200	14,630	100.8
LL-D-C170-8	3.01	3.00	9.03	81,900	9,070	62.5
LL-D-C170-9	3.00	3.00	9.00	143,300	15,920	109.8
LL-D-C170-10	3.02	3.05	9.21	79,100	8,590	59.2
Average Compressive Strength:					11,660	80.4
Standard Deviation:					3,374	23.3
Coefficient of Variation:					28.9%	29.0%

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