



Laboratory Test Report

DATE of TEST: December 9, 2020
Quote # 19-77
Contact # 4101

Test Specimens
Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Material: **San Pellegino**
* Country of Origin: **Brazil**
* Finish: **Polish**
Surfactant: **0.05% Concentration of Sodium Lauryl Sulfate (per ANSI A326.3)**
** Stone identification information as provided by client.*

ANSI A326.3 Standard Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials								
Specimen Number	N	S	E	W	Specimen Average	Overall Average	Standard Deviation	Coefficient of Variation
SP-Pol-1	0.28	0.30	0.27	0.26	0.28			
SP-Pol-2	0.33	0.32	0.29	0.31	0.31			
SP-Pol-3	0.39	0.38	0.25	0.26	0.32	0.30	0.05	15.0%

Tests performed by: **R. Lawson**
Report and Data Reviewed by: **C. Muehlbauer**

These tests were performed on a BOT 3000 Automated Testing Device manufactured by Regan Scientific Instruments of Southlake, Texas, USA; Serial No. VS 901265800196. Last Date of Calibration: July 9, 2020.

Not all products with a wet **DCOF AcuTest** value over 0.42 are suitable for all applications. Type of use, traffic, contaminants, maintenance, expected wear, and manufacturer's guidelines and recommendations are important and must also be considered by the specifier. ANSI A326.3 explains this in greater detail and should be reviewed carefully by anyone involved in picking the right tile for their next project!

Where floor tiles have a wet DCOF lower than 0.42, care must be exercised to ensure the tiles are not walked on while wet. In addition to choosing surfaces providing sufficient traction, providing adequate lighting and designing spaces to allow for suitable drainage will reduce slip/fall accidents. Proper footwear and shoe materials can also greatly improve traction and should be considered in any campaign to reduce slips and falls.



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Quote # 19-77
Member # 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C97, Standard Test Method for Absorption & Bulk Specific Gravity of Dimension Stone**

** Stone identification information as provided by client.*

Specimen Number	Dry Weight (grams)	Saturated Weight (grams)	Suspended Weight (grams)	Absorption (%)	Bulk Specific Gravity	Density (kg/m ³)	Density (lbs/ft ³)
SP-C97-1	1,215.55	1,216.59	790.26	0.09%	2.851	2,851	178.0
SP-C97-2	1,193.93	1,195.19	775.91	0.11%	2.848	2,848	177.8
SP-C97-3	1,221.02	1,222.18	793.80	0.10%	2.850	2,850	177.9
SP-C97-4	1,204.71	1,205.73	783.89	0.08%	2.856	2,856	178.3
SP-C97-5	1,206.19	1,207.19	784.81	0.08%	2.856	2,856	178.3
Average:				0.09%	2.852	2,852	178.1
Standard Deviation:				0.01%	0.004	4.0	0.2
Coefficient of Variation:				10.6%	0.1%	0.1%	0.1%

Date of Tests: **12/9/20 - 12/14/20**

Tests performed by: **M. Loflin**

Report and Data Reviewed by: **C. Muehlbauer**

These tests were performed on an Ohaus Laboratory Balance Model AX2202/E, Serial No. B614316489. Last Date of Calibration: May 2020, traceable to the National Institute of Standards Technology (NIST).



Laboratory Test Report

Quotation ref. # 19-77

Member # 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C99 Standard Test Method for Modulus of Rupture of Dimension Stone**
* Rift Orientation: **Perpendicular**
Preconditioning: **Wet Immersed in water 48 h at 22 ± 2°C**

** Stone identification information as provided by client.*

Specimen Number	Span (in)	Width (in)	Thickness (in)	Load @ Failure (lbs)	Modulus of Rupture (lbs/in ²)	Modulus of Rupture (MPa)
PPW-C99-1	7.00	4.01	2.35	5,058	2,400	16.5
PPW-C99-2	7.00	4.01	2.40	4,925	2,240	15.4
PPW-C99-3	7.00	4.01	2.35	5,000	2,370	16.3
PPW-C99-4	7.00	4.02	2.35	5,380	2,540	17.5
PPW-C99-5	7.00	4.03	2.36	5,815	2,720	18.8

Average Modulus of Rupture: 2,450 16.9

Standard Deviation: 183 1.3

Coefficient of Variation: 7.5% 7.7%

Date of Tests: **Thursday, 10 December, 2020**

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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



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Quotation ref. # 19-77

Member # 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C99 Standard Test Method for Modulus of Rupture of Dimension Stone**
* Rift Orientation: **Perpendicular**
Preconditioning: **Dry 48 hours in a ventilated oven at 60 ± 2°C**

** Stone identification information as provided by client.*

Specimen Number	Span (in)	Width (in)	Thickness (in)	Load @ Failure (lbs)	Modulus of Rupture (lbs/in ²)	Modulus of Rupture (MPa)
PPD-C99-1	7.00	4.02	2.35	5,372	2,540	17.5
PPD-C99-2	7.00	4.01	2.32	4,779	2,320	16.0
PPD-C99-3	7.00	4.02	2.34	5,879	2,800	19.3
PPD-C99-4	7.00	4.01	2.34	4,977	2,380	16.4
PPD-C99-5	7.00	4.01	2.34	5,437	2,600	17.9

Average Modulus of Rupture: 2,530 17.4

Standard Deviation: 190 1.3

Coefficient of Variation: 7.5% 7.5%

Date of Tests: **Thursday, 10 December, 2020**

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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



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Quotation ref. # 19-77
Member # 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C99 Standard Test Method for Modulus of Rupture of Dimension Stone**
* Rift Orientation: **Parallel**
Preconditioning: **Wet Immersed in water 48 h at 22 ± 2°C**

** Stone identification information as provided by client.*

Specimen Number	Span (in)	Width (in)	Thickness (in)	Load @ Failure (lbs)	Modulus of Rupture (lbs/in ²)	Modulus of Rupture (MPa)
LLW-C99-1	7.00	4.01	2.35	3,440	1,630	11.2
LLW-C99-2	7.00	4.03	2.38	2,990	1,380	9.5
LLW-C99-3	7.00	4.02	2.30	2,793	1,380	9.5
LLW-C99-4	7.00	4.02	2.35	3,304	1,560	10.8
LLW-C99-5	7.00	4.00	2.35	2,733	1,300	9.0

Average Modulus of Rupture: 1,450 10.0

Standard Deviation: 139 1.0

Coefficient of Variation: 9.6% 9.5%

Date of Tests: **Thursday, 10 December, 2020**

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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



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Quotation ref. # 19-77
 Member # 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
 * Country of Origin: **Brazil**
 Test Procedure: **ASTM C99 Standard Test Method for Modulus of Rupture of Dimension Stone**
 * Rift Orientation: **Parallel**
 Preconditioning: **Dry 48 hours in a ventilated oven at 60 ± 2°C**

** Stone identification information as provided by client.*

Specimen Number	Span (in)	Width (in)	Thickness (in)	Load @ Failure (lbs)	Modulus of Rupture (lbs/in ²)	Modulus of Rupture (MPa)
LLD-C99-1	7.00	4.02	2.35	3,266	1,540	10.7
LLD-C99-2	7.00	4.03	2.35	3,739	1,760	12.2
LLD-C99-3	7.00	4.02	2.33	3,530	1,700	11.7
LLD-C99-4	7.00	4.01	2.35	3,358	1,590	11.0
LLD-C99-5	7.00	4.01	2.34	2,775	1,330	9.1

Average Modulus of Rupture: 1,580 10.9

Standard Deviation: 167 1.2

Coefficient of Variation: 10.6% 10.8%

Date of Tests: **Thursday, 10 December, 2020**

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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



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Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C170 Standard Test Method for Compressive Strength of Dimension Stone**
* Rift Orientation: **Perpendicular**
Preconditioning: **Wet Immersed in water 48 h at 22 ± 2°C**

** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in ²)	Load @ Failure (lbs)	Compressive Strength (lbs/in ²)	Compressive Strength (MPa)
PPW-C170-1	2.94	2.93	8.61	155,800	18,100	124.8
PPW-C170-2	2.94	3.01	8.85	149,400	16,880	116.4
PPW-C170-3	2.94	2.95	8.67	136,200	15,710	108.3
PPW-C170-4	2.93	2.93	8.58	157,300	18,330	126.4
PPW-C170-5	2.95	2.94	8.67	154,000	17,760	122.5

Average Compressive Strength: 17,360 119.7
Standard Deviation: 1,073 7.4
Coefficient of Variation: 6.2% 6.2%

Date of Tests: **Thursday, 10 December, 2020**
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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



Laboratory Test Report

Quote # 19-77
Member # 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C170 Standard Test Method for Compressive Strength of Dimension Stone**
* Riff Orientation: **Perpendicular**
Preconditioning: **Dry 48 hours in a ventilated oven at 60 ± 2°C**

** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in ²)	Load @ Failure (lbs)	Compressive Strength (lbs/in ²)	Compressive Strength (MPa)
PPD-C170-6	2.94	2.94	8.64	161,800	18,730	129.1
PPD-C170-7	2.95	2.94	8.67	159,400	18,390	126.8
PPD-C170-8	2.95	2.93	8.64	147,300	17,050	117.5
PPD-C170-9	2.94	2.94	8.64	175,300	20,290	139.9
PPD-C170-10	2.95	2.95	8.70	161,300	18,540	127.8
Average Compressive Strength:					18,600	128.2
Standard Deviation:					1,154	8.0
Coefficient of Variation:					6.2%	6.2%

Date of Tests: **Thursday, 10 December, 2020**
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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



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Quote # 19-77
Member # 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C170 Standard Test Method for Compressive Strength of Dimension Stone**
* Riff Orientation: **Parallel**
Preconditioning: **Wet Immersed in water 48 h at 22 ± 2°C**

** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in ²)	Load @ Failure (lbs)	Compressive Strength (lbs/in ²)	Compressive Strength (MPa)
LLW-C170-1	2.97	2.94	8.73	190,800	21,860	150.7
LLW-C170-2	2.97	2.94	8.73	177,700	20,360	140.3
LLW-C170-3	3.03	2.94	8.91	157,700	17,700	122.0
LLW-C170-4	3.02	2.94	8.88	166,900	18,800	129.6
LLW-C170-5	2.97	2.94	8.73	167,400	19,180	132.2
Average Compressive Strength:					19,580	135.0
Standard Deviation:					1,590	11.0
Coefficient of Variation:					8.1%	8.1%

Date of Tests: **Thursday, 10 December, 2020**
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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



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Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C170 Standard Test Method for Compressive Strength of Dimension Stone**
* Riff Orientation: **Parallel**
Preconditioning: **Dry 48 hours in a ventilated oven at 60 ± 2°C**

** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Length (in)	Width (in)	Area (in ²)	Load @ Failure (lbs)	Compressive Strength (lbs/in ²)	Compressive Strength (MPa)
LLD-C170-6	3.00	2.94	8.82	147,400	16,710	115.2
LLD-C170-7	2.98	2.95	8.79	165,600	18,840	129.9
LLD-C170-8	3.01	2.95	8.88	153,400	17,270	119.1
LLD-C170-9	3.02	2.95	8.91	177,400	19,910	137.3
LLD-C170-10	3.01	2.94	8.85	140,800	15,910	109.7
Average Compressive Strength:					17,730	122.2
Standard Deviation:					1,624	11.2
Coefficient of Variation:					9.2%	9.2%

Date of Tests: **Thursday, 10 December, 2020**
Tests performed by: **R. Lawson**
Report and Data Reviewed by: **C. Muehlbauer**

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Quote # 19-77
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Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Finish: **Polish**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C880 Standard Test Method for Flexural Strength of Dimension Stone**
Rift Orientation: **Perpendicular**
Preconditioning: **Wet Immersed in water 48 h at 22 ± 2°C**
** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure (lbs)	Flexural Strength (lbs/in ²)	Flexural Strength (MPa)
PPW-C880-1	12.50	4.02	1.16	1,210	2,100	14.5
PPW-C880-2	12.50	4.03	1.17	1,290	2,190	15.1
PPW-C880-3	12.50	4.04	1.16	1,110	1,910	13.2
PPW-C880-4	12.50	4.03	1.17	1,200	2,040	14.1
PPW-C880-5	12.50	4.02	1.16	1,020	1,770	12.2
Average Flexural Strength:					2,000	13.8
Standard Deviation:					165	1.1
Coefficient of Variation:					8.3%	8.3%

Date of Tests: **Thursday, 10 December, 2020**
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: May 27, 2020, traceable to the National Institute of Standards Technology (NIST).



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Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Finish: **Polish**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C880 Standard Test Method for Flexural Strength of Dimension Stone**
Rift Orientation: **Perpendicular**
Preconditioning: **Dry 48 hours in a ventilated oven at 60 ± 2°C**
** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure (lbs)	Flexural Strength (lbs/in ²)	Flexural Strength (MPa)
PPD-C880-1	12.50	4.02	1.16	1,320	2,290	15.8
PPD-C880-2	12.50	4.03	1.16	1,270	2,200	15.1
PPD-C880-3	12.50	4.03	1.18	1,300	2,170	15.0
PPD-C880-4	12.50	4.05	1.17	1,190	2,010	13.9
PPD-C880-5	12.50	4.02	1.17	1,330	2,270	15.6
Average Flexural Strength:					2,190	15.1
Standard Deviation:					111	0.8
Coefficient of Variation:					5.1%	5.0%

Date of Tests: **Thursday, 10 December, 2020**
Tests performed by: **R. Lawson**
Report and Data Reviewed by: **C. Muehlbauer**

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201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Finish: **Polish**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C880 Standard Test Method for Flexural Strength of Dimension Stone**
Rift Orientation: **Parallel**
Preconditioning: **Wet Immersed in water 48 h at 22 ± 2°C**
** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure (lbs)	Flexural Strength (lbs/in ²)	Flexural Strength (MPa)
LLW-C880-1	12.50	4.03	1.15	1,120	1,970	13.6
LLW-C880-2	12.50	4.04	1.17	1,170	1,980	13.7
LLW-C880-3	12.50	4.05	1.14	1,160	2,070	14.3
LLW-C880-4	12.50	4.06	1.14	1,140	2,030	14.0
LLW-C880-5	12.50	4.03	1.16	1,100	1,900	13.1
Average Flexural Strength:					1,990	13.7
Standard Deviation:					64	0.4
Coefficient of Variation:					3.2%	3.1%

Date of Tests: **Thursday, 10 December, 2020**

Tests performed by: **R. Lawson**

Report and Data Reviewed by: **C. Muehlbauer**

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Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Finish: **Polish**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C880 Standard Test Method for Flexural Strength of Dimension Stone**
Rift Orientation: **Parallel**
Preconditioning: **Dry 48 hours in a ventilated oven at 60 ± 2°C**
** Stone identification information as provided by client.*

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure (lbs)	Flexural Strength (lbs/in ²)	Flexural Strength (MPa)
LLD-C880-1	12.50	4.04	1.16	730	1,260	8.7
LLD-C880-2	12.50	4.03	1.15	1,220	2,150	14.8
LLD-C880-3	12.50	4.03	1.16	1,220	2,110	14.5
LLD-C880-4	12.50	4.04	1.15	1,140	2,000	13.8
LLD-C880-5	12.50	4.04	1.16	1,190	2,050	14.2
Average Flexural Strength:					1,910	13.2
Standard Deviation:					370	2.6
Coefficient of Variation:					19.4%	19.3%

Date of Tests: **Thursday, 10 December, 2020**

Tests performed by: **R. Lawson**

Report and Data Reviewed by: **C. Muehlbauer**

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Customer ID: 4101

Test Specimens Provided by: **Dapaz Trading Co.**
201 S Biscayne Blvd., Suite 1200
Miami, FL 33131

* Trade Name of Material: **San Pellegrino**
* Country of Origin: **Brazil**
Test Procedure: **ASTM C1353 Standard Test Method for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform Abraser**

** Stone identification information as provided by client.*

Specimen Number	Initial Weight (grams)	Weight after Abrading (grams)	Bulk Specific Gravity†	Number of Revolutions	Abrasion Index (I_w)
SP-C1353-1	246.06	245.00	2.852	1,000	98.9
SP-C1353-2	247.10	246.02	2.852	1,000	97.0
SP-C1353-3	242.87	241.77	2.852	1,000	95.3

Average: 97.1

Standard Deviation: 1.8

Coefficient of Variation: 1.9%

† Bulk specific gravity calculated per ASTM C97.

Date of Tests: **Wednesday, December 9, 2020**

Tests performed by: **R. Lawson**

Report and Data Reviewed by: **C. Muehlbauer**

NOTE: Test results from hard and coarse-grained stones such as granite should be viewed with caution. Hard stones may both polish and abrade, thus resulting in an increase in the indicated value of I_w . Coarse-grained stones may exhibit a wider than normal variation of I_w results in addition to polishing and abrading because of differences in hardness between grains.

These tests were performed on a Taber Abraser Model 5130 (single platform) machine, Serial No. 20161679, using H-22 Calibrade abrasive wheels. Re-calibration due August 19, 2021.

380 E. Lorain Street • Oberlin, OH 44074

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www.naturalstoneinstitute.org