



Report of Physical Property Tests

Test Specimens Provided by: **New England Stone Industries DBA Granites of America**
15 Branch Pike
Smithfield, RI 02917

Trade Name of Material: **Coral Grey/Congaree**
 Country of Origin: **Heath Spring Lancaster SC, USA**
 Test Procedure: **ASTM C 97**
Standard Test Method for Absorption & Bulk Specific Gravity of Dimension Stone

Specimen Number	Dry Weight (grams)	Saturated Weight (grams)	Suspended Weight (grams)	Absorption (%)	Bulk Specific Gravity	Density (kg/m ³)	Density (lbs/ft ³)
CGR-HO-1	1,173.52	1,175.41	737.17	0.16%	2.678	2,678	167.2
CGR-HO-2	1,263.43	1,265.46	792.44	0.16%	2.671	2,671	166.7
CGR-HO-3	1,258.31	1,260.40	790.08	0.17%	2.675	2,675	167.0
CGR-HO-4	1,276.23	1,278.18	802.30	0.15%	2.682	2,682	167.4
CGR-HO-5	1,106.69	1,108.63	694.38	0.18%	2.672	2,672	166.8
Average:				0.16%	2.676	2,676	167.0
Standard Deviation:				0.01%	0.005	5	0.3
Coefficient of Variation:				6.3%	0.2%	0.2%	0.2%

Date of Tests: **8/7/2017**
 Tests performed by: **S Guilfoyle**
 Report and Data Reviewed by: **C Muehlbauer** *C.J. Muehlbauer*

These tests were performed on an Ohaus Laboratory Balance Model AX2202/E, Serial No. B614316489. Last Date of Calibration: May, 2016, traceable to the National Institute of Standards Technology (NIST).




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Trade Name of Material: **Coral Grey/Congaree**
Country of Origin: **Heath Spring Lancaster SC, USA**
Test Procedure: **ASTM C 880 Standard Test Method for Flexural Strength of Dimension Stone**
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)
CGR-D-C880-6	12.50	3.97	1.24	880	1,350	9.3
CGR-D-C880-7	12.50	3.96	1.23	860	1,350	9.3
CGR-D-C880-8	12.50	4.02	1.34	1,150	1,490	10.3
CGR-D-C880-9	12.50	4.02	1.43	1,130	1,290	8.9
CGR-D-C880-10	12.50	3.96	1.21	790	1,280	8.8
Average Flexural Strength:					1,350	9.3
Standard Deviation:					84	0.6
Coefficient of Variation:					6%	6%

Date of Tests: **Monday, 07 August, 2017**
Tests performed by: **S Guilfoyle**
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 19, 2016, traceable to the National Institute of Standards Technology (NIST).



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Trade Name of Material: **Coral Grey/Congaree**
 Country of Origin: **Heath Spring Lancaster SC, 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)
CGR-D-C170-6	3.06	3.14	9.61	259,100	26,960	185.9
CGR-D-C170-7	3.10	3.14	9.73	244,300	25,110	173.1
CGR-D-C170-8	2.96	3.13	9.26	260,200	28,100	193.7
CGR-D-C170-9	2.93	3.10	9.08	166,700	18,360	126.6
CGR-D-C170-10	2.93	3.08	9.02	201,100	22,290	153.7

Average Compressive Strength: **24,160** **166.6**
 Standard Deviation: **3,918** **27.0**
 Coefficient of Variation: **16%** **16%**

Date of Tests: **8/25/2017**
 Tests performed by: **M Loflin**
 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 2017, traceable to the National Institute of Standards Technology (NIST).



Report of Physical Property Tests

Test Specimens Provided by: **New England Stone Industries DBA Granites of America**
15 Branch Pike
Smithfield, RI 02917

Trade Name of Material: **Coral Grey/Congaree**
Country of Origin: **Heath Spring Lancaster SC, 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)
CGR-D-C170-1	2.98	3.11	9.27	169,500	18,280	126.1
CGR-D-C170-2	3.07	2.95	9.06	219,900	24,270	167.3
CGR-D-C170-3	3.14	3.02	9.48	222,000	23,420	161.5
CGR-D-C170-4	2.95	3.02	8.91	148,900	16,710	115.2
CGR-D-C170-5	3.12	2.99	9.33	211,100	22,630	156.0

Average Compressive Strength: **21,060** **145.2**
Standard Deviation: **3,354** **23.1**
Coefficient of Variation: **16%** **16%**

Date of Tests: **8/25/2017**
Tests performed by: **M Loflin**
Report and Data Reviewed by: **C Muehlbauer** *C. Muehlbauer*

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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)
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CGR-D-C170-8	2.96	3.13	9.26	260,200	28,100	193.7
CGR-D-C170-9	2.93	3.10	9.08	166,700	18,360	126.6
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