



# Laboratory Test Report

Member# 5610  
Contact # 83633

Test Specimens Provided by: **MARBO srl**  
**via Carriona, 2230**  
**54033-Carrara (MS) ITALY**

Trade Name of Material: **Calacata Borghini**  
Finish: **Raw**  
Country of Origin: **Italy**  
Test Procedure: **ASTM C880 Standard Test Method for Flexural Strength of Dimension Stone**  
Rift Orientation: **none specified**  
Preconditioning: **Wet Immersed in water 48 h at 22 ± 2°C**

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure* (lbs)	Flexural Strength (lbs/in <sup>2</sup> )	Flexural Strength (MPa)
CalB-C880-1	12.50	3.95	1.20	1,110	1,830	12.6
CalB-C880-2	12.50	3.95	1.19	930	1,560	10.8
CalB-C880-3	12.50	3.93	1.18	1,230	2,110	14.5
CalB-C880-4	12.50	3.93	1.20	1,170	1,940	13.4
CalB-C880-5	12.50	3.94	1.21	690	1,120	7.7
CalB-C880-6	12.50	3.96	1.21	1,120	1,810	12.5
CalB-C880-7	12.50	3.95	1.20	1,020	1,680	11.6
CalB-C880-8	12.50	3.95	1.21	630	1,020	7.0
CalB-C880-9	12.50	3.95	1.22	1,430	2,280	15.7
CalB-C880-10	12.50	3.94	1.18	870	1,490	10.3

**Average Flexural Strength: 1,680 11.6**

Standard Deviation: 402 2.8

Coefficient of Variation: 24% 24%

*\*No visible defects observed before or after testing*

Date of Tests: **Thursday, 30 July, 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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Trade Name of Material: **Calacata Borghini**  
Finish: **Raw**  
Country of Origin: **Italy**  
Test Procedure: **ASTM C880 Standard Test Method for Flexural Strength of Dimension Stone**  
Rift Orientation: **none specified**  
Preconditioning: **Dry 48 hours in a ventilated oven at 60 ± 2°C**

TEST RESULTS						
Specimen Number	Span (in)	Breadth (in)	Depth (in)	Load @ Failure* (lbs)	Flexural Strength (lbs/in <sup>2</sup> )	Flexural Strength (MPa)
CalB-C880-11	12.50	3.94	1.17	1,190	2,070	14.3
CalB-C880-12	12.50	3.94	1.21	270	440	3.0
CalB-C880-13	12.50	3.90	1.20	1,480	2,470	17.0
CalB-C880-14	12.50	3.95	1.18	830	1,410	9.8
CalB-C880-15	12.50	3.95	1.21	1,410	2,290	15.8
CalB-C880-16	12.50	3.94	1.20	1,200	1,980	13.7
CalB-C880-17	12.50	3.95	1.20	800	1,320	9.1
CalB-C880-18	12.50	3.94	1.19	1,120	1,880	13.0
CalB-C880-19	12.50	3.94	1.20	1,710	2,830	19.5
CalB-C880-20	12.50	3.95	1.21	1,230	1,990	13.8

**Average Flexural Strength: 1,870 12.9**  
Standard Deviation: 674 4.6  
Coefficient of Variation: 36% 36%

*\*No visible defects observed before or after testing*

Date of Tests: **Thursday, 30 July, 2020**  
Tests performed by: **R. Lawson**  
Report and Data Reviewed by: **C. Muehlbauer**

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