

To: Cobra Stone, Inc.
P.O. Box 705
Jarrell, TX 76537
Attn: Mr. Fabian Hernandez

Project: Cobra Stone, Inc.

P.O. #023752
Project No.: 20180443.001A

Control No.: 050208E

Page 1 of 4

REPORT OF: Specific Gravity and Absorption of Dimension Stone
TEST METHOD: ASTM C-97
LAB NUMBER: G-4117
MATERIAL SOURCE: Cobra Stone, Inc.; Williamson County, Texas
MATERIAL DESCRIPTION: Dimension Stone, Yellowish Brown Limestone; 3" cubes, sawn faces and sides; "Montana Brown Limestone"
SAMPLED BY: Client delivered samples to lab
TEST PERFORMED BY: K. Woodard, NICET #107418

RESULTS:

Specimen Number	SSD Wt. in Air, g	SSD Wt. in Water, g	Oven Dry Wt. in Air, g	Absorption, %	Density	
					lb./cu.ft.	Spec. Grav.
1	471.8	282.4	455.7	3.53	150.1	2.406
2	480.7	287.2	464.3	3.53	149.7	2.399
3	476.8	287.6	459.2	3.83	151.4	2.427
4	481.6	290.2	465.2	3.53	151.7	2.431
5	488.2	292.6	472.6	3.30	150.8	2.416
Average of Sample:				3.54	150.7	2.416
Standard Deviation:				0.19	0.83	0.013

Photo of C99 MOR Specimen, after testing:



The results shown on this report are for the exclusive use of the client for whom they were obtained and apply only to the samples tested and/or inspected. They are not intended to be indicative of the qualities of apparently identical products. The use of our name must receive our prior written approval. Reports must be reproduced in their entirety.



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Page 2 of 4

REPORT OF: Modulus of Rupture of Dimension Stone
TEST METHOD: ASTM C-99
LAB NUMBER: G-4117
MATERIAL SOURCE: Cobra Stone, Inc.; Williamson County, Texas
MATERIAL DESCRIPTION: Dimension Stone, Yellowish Brown Limestone; 4" x 8" x 2-1/4",
 sawn faces and sides; "Montana Brown Limestone"
SAMPLED BY: Client delivered samples to lab
TEST PERFORMED BY: K. Woodard, NICET #107418

RESULTS: Rift Direction – Not Discernable - Oven Dry Condition

Specimen Mark	Total Load, lbs.	Width, in.	Thickness, in.	Modulus of Rupture	
				PSI	MPa
1	3,365	4.05	2.27	1,693	11.67
2	3,695	4.03	2.26	1,885	13.00
3	2,855	4.02	2.27	1,447	9.98
4	3,345	4.02	2.27	1,696	11.69
5	3,625	4.03	2.27	1,833	12.64
Average of Sample:				1,710	11.79
Standard Deviation:				170	1.17

Note: Test span length = 7.0"

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Page 3 of 4

REPORT OF: Compressive Strength of Dimension Stone
 TEST METHOD: ASTM C-170
 LAB NUMBER: G-4117
 MATERIAL SOURCE: Cobra Stone, Inc.; Williamson County, Texas
 MATERIAL DESCRIPTION: Dimension Stone, Yellowish Brown Limestone; 3" cubes, sawn faces and sides; "Montana Brown Limestone"
 SAMPLED BY: Client delivered samples to lab
 TEST PERFORMED BY: K. Woodard, NICET #107418

RESULTS: Rift Direction – Not Discernable - Oven Dry Condition

Specimen Mark	Total Load, lbs.	Width, in.	Thickness, in.	Area (sq. in.)	Comp. Strength	
					PSI	MPa
1	102,230	3.13	3.03	9.48	10,779	74.32
2	108,605	3.13	3.03	9.48	11,452	78.95
3	135,065	3.12	3.03	9.45	14,287	98.50
4	110,755	3.03	3.04	9.21	12,024	82.90
5	120,120	3.01	3.09	9.30	12,915	89.04
Average of Sample:					12,290	84.74
Standard Deviation:					1,363	9.40

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Page 4 of 4

REPORT OF: Flexural Strength of Dimension Stone
 TEST METHOD: ASTM C-880
 LAB NUMBER: G-4117
 MATERIAL SOURCE: Cobra Stone, Inc.; Williamson County, Texas
 MATERIAL DESCRIPTION: Dimension Stone, Yellowish Brown Limestone; 4" x 1-1/4" x 15",
 sawn faces and sides; "Montana Brown Limestone"
 SAMPLED BY: Client delivered samples to lab
 TEST PERFORMED BY: K. Woodard, NICET #107418

RESULTS: Rift Direction – Not Discernable - Oven Dry Condition

Specimen Mark	Total Load, lbs.	Width, in.	Thickness, in.	Flexural Strength	
				PSI	MPa
1	1,580	4.03	1.35	2,017	13.90
2	1,280	4.03	1.35	1,634	11.26
3	1,615	4.02	1.35	2,067	14.25
4	1,370	4.02	1.36	1,727	11.91
5	1,625	4.03	1.35	2,074	14.30
Average of Sample:				1,900	13.13
Standard Deviation:				208	1.43

Note: Test span length = 12.5"

 Report Reviewed by: _____

Robert S. Wright, P.E.

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