



1826 Kramer Lane, Suite M  
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**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.:** 050208B

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**REPORT OF:** Specific Gravity and Absorption of Dimension Stone  
**TEST METHOD:** ASTM C-97  
**LAB NUMBER:** G-4113  
**MATERIAL SOURCE:** Cobra Stone, Inc.; Williamson County, Texas  
**MATERIAL DESCRIPTION:** Dimension Stone, Bluish Gray Limestone; 3" cubes, sawn faces and sides; "Blue Lueders 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                          | 492.4             | 297.8               | 480.0                  | 2.58          | 153.9      | 2.467       |
| 2                          | 513.8             | 311.9               | 501.0                  | 2.55          | 154.8      | 2.481       |
| 3                          | 502.1             | 304.4               | 489.5                  | 2.57          | 154.5      | 2.476       |
| 4                          | 501.8             | 303.4               | 489.4                  | 2.53          | 153.9      | 2.467       |
| 5                          | 508.5             | 307.6               | 496.1                  | 2.50          | 154.1      | 2.469       |
| <b>Average of Sample:</b>  |                   |                     |                        | 2.55          | 154.3      | 2.472       |
| <b>Standard Deviation:</b> |                   |                     |                        | 0.03          | 0.40       | 0.006       |

Photo of C99 MOR Specimen, after testing:



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**REPORT OF:** Modulus of Rupture of Dimension Stone  
**TEST METHOD:** ASTM C-99  
**LAB NUMBER:** G-4113  
**MATERIAL SOURCE:** Cobra Stone, Inc.; Williamson County, Texas  
**MATERIAL DESCRIPTION:** Dimension Stone, Bluish Gray Limestone; 2-1/4" x 4" x 8", sawn faces and sides; "Blue Lueders 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                          | 3,345            | 4.03       | 2.43           | 1,476              | 10.18        |
| 2                          | 3,725            | 4.06       | 2.40           | 1,673              | 11.53        |
| 3                          | 2,910            | 4.02       | 2.40           | 1,320              | 9.10         |
| 4                          | 3,875            | 4.03       | 2.39           | 1,768              | 12.19        |
| 5                          | 3,795            | 4.05       | 2.41           | 1,694              | 11.68        |
| <b>Average of Sample:</b>  |                  |            |                | <b>1,590</b>       | <b>10.93</b> |
| <b>Standard Deviation:</b> |                  |            |                | <b>184</b>         | <b>1.27</b>  |

Note: Test span length = 7.0"

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**REPORT OF:** Compressive Strength of Dimension Stone  
**TEST METHOD:** ASTM C-170  
**LAB NUMBER:** G-4113  
**MATERIAL SOURCE:** Cobra Stone, Inc.; Williamson County, Texas  
**MATERIAL DESCRIPTION:** Dimension Stone, Bluish Gray Limestone; 3" cubes, sawn faces and sides; "Blue Lueders 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                          | 98,365           | 3.03       | 3.03           | 9.18           | 10,714         | 73.87        |
| 2                          | 69,595           | 3.05       | 3.00           | 9.15           | 7,606          | 52.44        |
| 3                          | 40,145           | 3.02       | 3.09           | 9.33           | 4,302          | 29.66        |
| 4                          | 92,375           | 3.01       | 3.10           | 9.33           | 9,900          | 68.26        |
| 5                          | 105,330          | 3.05       | 3.07           | 9.36           | 11,249         | 77.56        |
| <b>Average of Sample:</b>  |                  |            |                |                | <b>8,750</b>   | <b>60.36</b> |
| <b>Standard Deviation:</b> |                  |            |                |                | <b>2,851</b>   | <b>19.66</b> |

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**REPORT OF:** Flexural Strength of Dimension Stone  
**TEST METHOD:** ASTM C-880  
**LAB NUMBER:** G-4113  
**MATERIAL SOURCE:** Cobra Stone, Inc.; Williamson County, Texas  
**MATERIAL DESCRIPTION:** Dimension Stone, Bluish Gray Limestone; 4" x 1-1/4" x 15", sawn faces and sides; "Blue Lueders 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                   | 1,010            | 4.05       | 1.27           | 1,450             | 9.99 |
| 2                   | 835              | 4.06       | 1.26           | 1,214             | 8.37 |
| 3                   | 970              | 4.03       | 1.30           | 1,335             | 9.21 |
| 4                   | 700              | 4.03       | 1.28           | 994               | 6.85 |
| 5                   | 865              | 4.02       | 1.29           | 1,212             | 8.36 |
| Average of Sample:  |                  |            |                | 1,240             | 8.56 |
| Standard Deviation: |                  |            |                | 170               | 1.17 |

Note: Test span length = 12.5"

Report Reviewed by: \_\_\_\_\_

Robert S. Wright, P.E.

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