



## REPORT OF MODULUS OF RUPTURE TESTING

**PROJECT:**

DIMENSION STONE TESTING

**REPORTED TO:**

HARTSTONE, LLC  
P.O. BOX 30, 1841 TAYLOR AVE  
GLENVIEW KY 40025

**ATTN:** TODD HART

**AET PROJECT NO:** 29-01146

**DATE:** DECEMBER 26, 2012

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### INTRODUCTION

This report presents the results of our Modulus of Rupture testing performed on Hartstone dimension stone analysis. Our work was requested and authorized by Todd Hart of Hartstone, LLC. The scope of our work was limited to performing modulus of rupture testing on the samples.

### TEST METHOD

Two pieces of dimension stone were received at our laboratory on November 30, 2012. The samples were saw-cut with a 14 inch circular saw to obtain sub samples for testing.

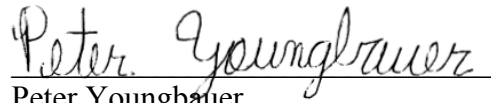
The modulus of rupture was performed in accordance with ASTM C99, "Standard Test Method for Modulus of Rupture of Dimension Stone." Five samples were tested in dry conditions.

### TEST RESULTS

Specimen	Span Length, l (in.)	Width, b (in.)	Thickness, d (in.)	Breaking Load, W (lbf)	Modulus of Rupture, R (psi)
A	8.05	3.95	1.32	660	1,160
B	8.07	3.90	1.33	581	1,025
C	8.08	4.04	1.31	569	990
D	8.06	3.90	1.32	670	1,185
E	8.02	3.83	1.32	544	980
Average	8.06	3.92	1.32	605	1,070

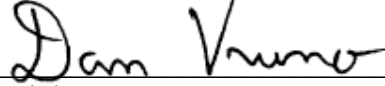
**Remarks:** The test samples will be retained for a period of 30 days from the date of this report. Unless we are informed otherwise, the specimens will then be discarded. The results represent specifically the samples tested. For further information, please contact us at the numbers listed below.

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