



- CONSULTANTS
- ENVIRONMENTAL
- GEOTECHNICAL
- MATERIALS
- FORENSICS

**REPORT OF STONE TESTING**  
**ASTM C616-10 "STANDARD SPECIFICATION FOR QUARTZ-BASED DIMENSION STONE"**

**PROJECT:**  
STONE TESTING

**REPORTED TO:**  
REALSTONE SYSTEMS  
560 KIRTS BOULEVARD  
SUITE 120  
TROY, MI 48084

**ATTN:** MIKE QUARTON

**AET PROJECT NO:** 20-13398

**DATE:** NOVEMBER 16, 2015

Product Type: Berkshire Buff Quartzite  
Date Tested: November 9 to 16, 2015

**Conformance:** The stone samples meet ASTM:C616-11 Quartzite modulus of rupture, absorption and density requirements for Quartz-based dimension stone.

**Modulus of Rupture (psi): ASTM C99-15 "Standard Test Method for Modulus of Rupture of Dimension Stone"**

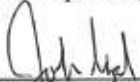
Sample	Stone				Average	Requirements ASTM C616
	A	B	C	D		
	<b>Perpendicular to Bedding Rift</b>					
<b>Dry</b>	4,490	4,860	3,220	3,750	4,080	2,000

**Physical Properties: ASTM C97-15 "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"**


Sample	A	B	C	D	Average	Requirements ASTM C616
Specific Gravity:	2.882	2.875	2.881	2.882	2.880	
Bulk Density, pcf:	179.8	179.4	179.8	179.8	179.7	160 Min
Absorption, %	0.1	0.1	0.1	0.1	0.1	1 Max

**Remarks:** The samples were destroyed during testing and discarded. The ASTM standards for the respective tests require 5 samples to be tested for each orientation and conditions. Four samples were submitted for each condition and orientation. It is our understanding the material source could not provide the dimensions required for the tests.

**Report Prepared By:**

  
\_\_\_\_\_  
John J. Haupt  
Senior Engineer

**Report Reviewed By:**

  
\_\_\_\_\_  
David G. Wirth  
Manager, Construction Services

