



Materials Test Report

Client:	Rocky Ridge Stone Company	Material:	Dimension Stone Slabs / Pieces
Project:	Dimension Stone Testing	Quantity:	5 compression / 3 absorption
S&ME Project No.:	1439-09-094	Date Received :	September 8, 2010

Compressive Strength of Dimension ASTM C170-09

Specimen ID	Loading Direction	Test Condition	Size and Shape of Specimens	Compressive Strength (psi)
1	Perpendicular to bedding	Dry	Approximate 2" cube	17,500
2	Perpendicular to bedding	Dry	Approximate 2" cube	18,000
3	Perpendicular to bedding	Dry	Approximate 2" cube	14,300
4	Perpendicular to bedding	Dry	Approximate 2" cube	17,500
5	Perpendicular to bedding	Dry	Approximate 2" cube	17,600
Average	---	---	---	17,000

Absorption and Bulk Specific Gravity of Dimension Stone ASTM C97-09

Specimen ID	Dry Weight (grams)	Soaked and surface-dry weight (grams)	Soaked Specimen Suspended in water weight (grams)	Volume to Surface Area Ratio (0.3 - 0.5)	Absorption (%)	Bulk Specific Gravity	Density (lb/ft ³)
1	480.65	493.55	296.94	0.38	2.68	2.44	152.3
2	462.52	474.97	285.82	0.38	2.69	2.45	152.9
3	446.98	458.93	276.18	0.38	2.67	2.45	152.9
Average	---	---	---	---	2.68	---	152.7

ASTM C 616-08 Standard Specification for Quartz-Based Dimension Stone Table 1 Physical Requirements (Compressive Strength)

Property	Test Requirements	Classifications	Test Method (s)
Absorption by weight, max, %	8	I Sandstone	C97
	3	II Quartzitic Sandstone	
	1	III Quartzite	
Density, min, lb/ft ³	125	I Sandstone	C97
	150	II Quartzitic Sandstone	
	160	III Quartzite	
Compressive strength, min, psi	4,000	I Sandstone	C170
	10,000	II Quartzitic Sandstone	
	20,000	III Quartzite	