

# BOWSER-MORNER, INC.

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## REPORT ON TESTS OF ARCHITECTURAL CAST STONE

**Report To:** Reading Rock, Inc  
Attn: David Zawada  
4600 Devitt Drive  
Cincinnati, OH 45246

**Report Date:** 05/14/19  
**Job No.:** 189954  
**Report No.:** 114576A  
**No. of Pages:** 2  
**Date Received:** 04/18/19

**Date Made:** Unknown

**Date(s) of Performance:** 04/26/19

**Test Specification:** ASTM C 90 (Strength & Absorption Only)

**Test Methods:** ASTM C 140, C 426

**Unit Description:** Tiger MM Stretcher Rock Cast AMV Buff

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	1D	1E	1F	Average	Individual	Average
Length in Inches	7.65	7.69	7.66			
Width in Inches	2.08	2.06	2.07	2.07		
Height in Inches	3.62	3.66	3.36			
Total Load in lbs.	79,920	81,025	72,660			
Gross Area, Sq. In.	15.9	15.8	15.9			
Gross Unit Load, psi	5020	5110	4580	4900		
Gross Volume, Cu. Ft.	0.0333	0.0336	0.0308	0.0326		
Net Unit Load, psi	<b>5070</b>	<b>5140</b>	<b>4610</b>	<b>4940</b>	1800 Min.	2000 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	1A	1B	1C	Average	Individual	Average
Wt. As Received, lbs.	3.87	4.25	4.28			
Suspended Wt., lbs.	2.02	2.23	2.26			
Wet Wt., lbs.	3.92	4.31	4.33			
Dry Wt., lbs.	3.73	4.10	4.13			
Absorption, lbs./Cu.Ft.	6.2	6.3	6.0	<b>6.2</b>	17 Max.	15 Max.
Absorption, % of Dry Wt.	5.1	5.1	4.8	5.0		
% Moisture, % Absorption	73.7	71.4	75.0			
Net Vol., Cu. Ft.	0.030	0.033	0.033	0.032		
Net Area, Sq. In.	14.5	15.7	17.1	15.8		
Dry Den, lbs./Cu.Ft.	122.5	123.0	124.5	123.3		
LINEAR SHRINKAGE						
Linear Shrinkage @ Equilibrium, %:	<b>0.058</b>			ASTM C 90, section 5.2 Specification, % Max: 0.065		

Note: Architectural Cast Stone Units are usually specified to comply with ASTM C1364. This report compares the test results to ASTM C 90, "Loadbearing Concrete Masonry Units"

Should you have any questions, or if we may be of further service, please contact me at (937) 236-8805, ext. 322.

KAF/bk/jlh  
114576A  
1-File  
1-zawadad@readingrock.com

Respectfully submitted,  
BOWSER-MORNER, INC.  
  
Karl A. Fletcher, Manager  
Construction Materials and  
Geotechnical Laboratories

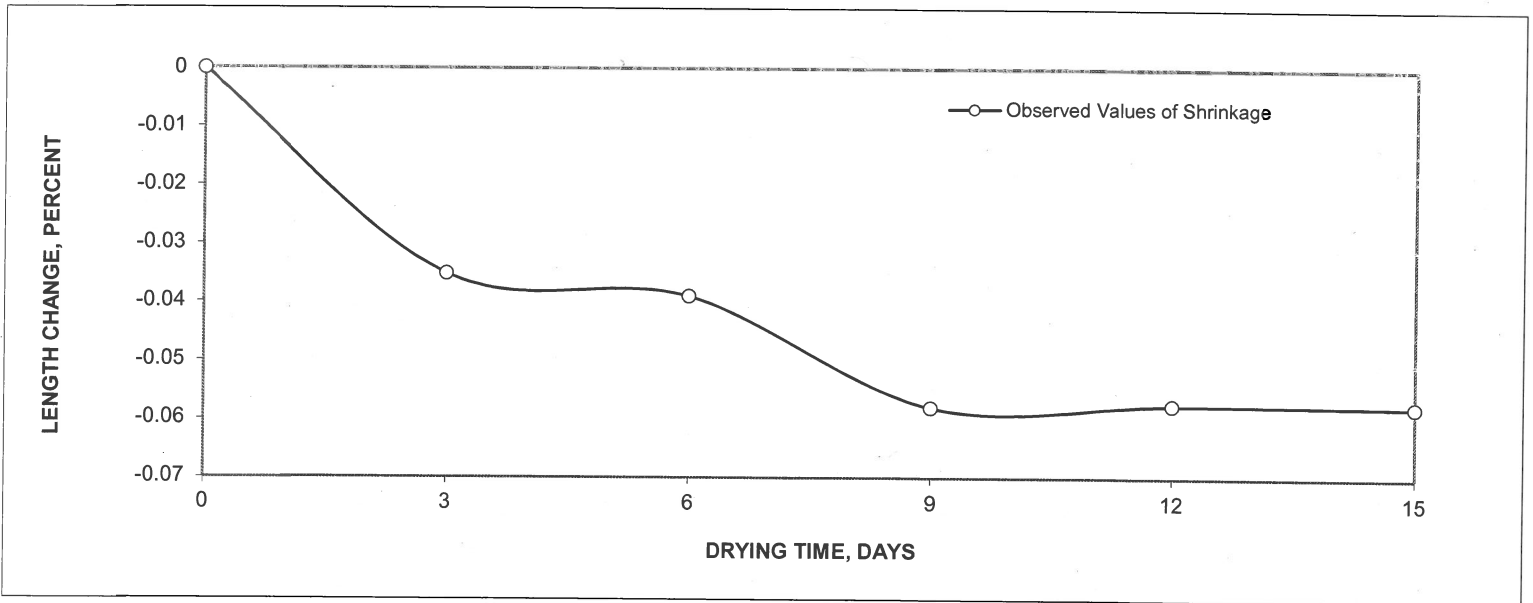
Report To: Reading Rock, Inc  
 Methods: ASTM C 140, C 426  
 Specs: ASTM C 90-02, Section 5.2

Job No.: 189954  
 Report No.: 114576A  
 Date Made: Unknown

Unit ID: Tiger MM Stretcher Rock Cast AMV Buff

Ref. Rod Length: 15.366896

Day of Reading	Specimen ID	Reference Rod, inch	Specimen Readings, inch	Length inch	Length Change, %	Weight, lbs.	Weight Change, %	Avg Weight Change, %	Avg Length Change, %
0 4/29/2019	1G	0.0000	0.0845	15.4514	n/a	8.8400	n/a	0	0
	1H	0.0000	0.0995	15.4664	n/a	8.1500	n/a		
	1I	0.0000	0.1191	15.4860	n/a	8.9800	n/a		
3 5/2/2019	1G	0.0000	0.0790	15.4459	-0.0356	8.4800	-4.0724	-4.5229	-0.0351
	1H	0.0000	0.0942	15.4611	-0.0343	7.7300	-5.1534		
	1I	0.0000	0.1136	15.4805	-0.0355	8.5900	-4.3430		
6 5/5/2019	1G	0.0000	0.0788	15.4457	-0.0369	8.4200	-4.7511	-5.3286	-0.0390
	1H	0.0000	0.0935	15.4604	-0.0388	7.6700	-5.8896		
	1I	0.0000	0.1127	15.4796	-0.0413	8.5000	-5.3452		
9 5/8/2019	1G	0.0000	0.0767	15.4436	-0.0505	8.4000	-4.9774	-5.4821	-0.0580
	1H	0.0000	0.0903	15.4572	-0.0595	7.6600	-6.0123		
	1I	0.0000	0.1092	15.4761	-0.0640	8.4900	-5.4566		
12 5/11/2019	1G	0.0000	0.0767	15.4436	-0.0505	8.4000	-4.9774	-5.4821	-0.0576
	1H	0.0000	0.0904	15.4573	-0.0589	7.6600	-6.0123		
	1I	0.0000	0.1093	15.4762	-0.0633	8.4900	-5.4566		
15 5/14/2019	1G	0.0000	0.0766	15.4435	-0.0512	8.4000	-4.9774	-5.4821	-0.0578
	1H	0.0000	0.0904	15.4573	-0.0589	7.6600	-6.0123		
	1I	0.0000	0.1093	15.4762	-0.0633	8.4900	-5.4566		



Linear Shrinkage @ Equilibrium, %: 0.058      ASTM C 90-02, section 5.2 Specification, % Max: 0.065

The units submitted meet specifications for linear shrinkage.