

# BOWSER-MORNER, INC.

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AASHTO/ISO 17025 Accredited

## REPORT ON TESTS OF ARCHITECTURAL CAST STONE

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

**Report Date:** 09/11/20  
**Job No.:** 196923  
**Report No.:** 115712A  
**No. of Pages:** 2

**Date Made:** n/a  
**Date Received:** 8/3/2020  
**Date(s) of Performance:** 08/04/20 - 09/11/20

**Technician(s) Performing Tests:** R. Kushmaul

**Test Methods:** ASTM C 1194, ASTM C 1195, ASTM C 426

**Specification:** ASTM C 1364

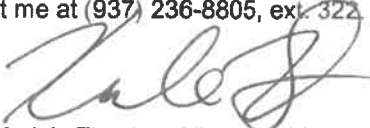
**Type of Unit:** Rockcast Custom Cast Stone - Hand Tamp CW

**Condition of Samples:** Intact

COMPRESSIVE STRENGTH - ASTM C 1194					SPECIFICATIONS	
Specimen No.	3D	3E	3F	Average	Individual	Average
Length in Inches	2.01	2.01	2.00			
Width in Inches	2.04	2.06	2.02	2.04		
Height in Inches	2.03	2.12	2.02			
Total Load in lbs.	30,060	31,160	30,660			
Gross Area, Sq. In.	4.1	4.1	4.0			
Gross Unit Load, psi	7330	7530	7590	7480	6500 Min.	6500 Min.
ABSORPTION - ASTM C 1195					SPECIFICATIONS	
Specimen No.	3A	3B	3C	Average	Individual	Average
Dry Weight, (g)	295.50	286.20	301.40			
SSD Wt., 48 HR Soak, (g)	309.40	299.40	315.90			
Absorption, 48 HR Soak, (%)	4.7	4.6	4.8	4.7	6 Max	6 Max
LINEAR SHRINKAGE						
Linear Shrinkage at Equilibrium, %:	0.033		ASTM C 1364 Specification, % Max:		0.065	

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

KAF/bk/adc  
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Karl A. Fletcher, Vice President  
Assistant Director, CMT and  
Geotechnical Laboratories

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Report To: Reading Rock, Inc.  
 Methods: ASTM C 1194, ASTM C 1195, ASTM C 426  
 Specs: ASTM C 1364

Job No.: 196923  
 115712A  
 Date Received: 8/3/2020

Unit ID: Rockcast Custom Cast Stone - Hand Tamp CW

Ref. Rod Length: 11.62001

Linear Drying Shrinkage of Concrete Masonry Units

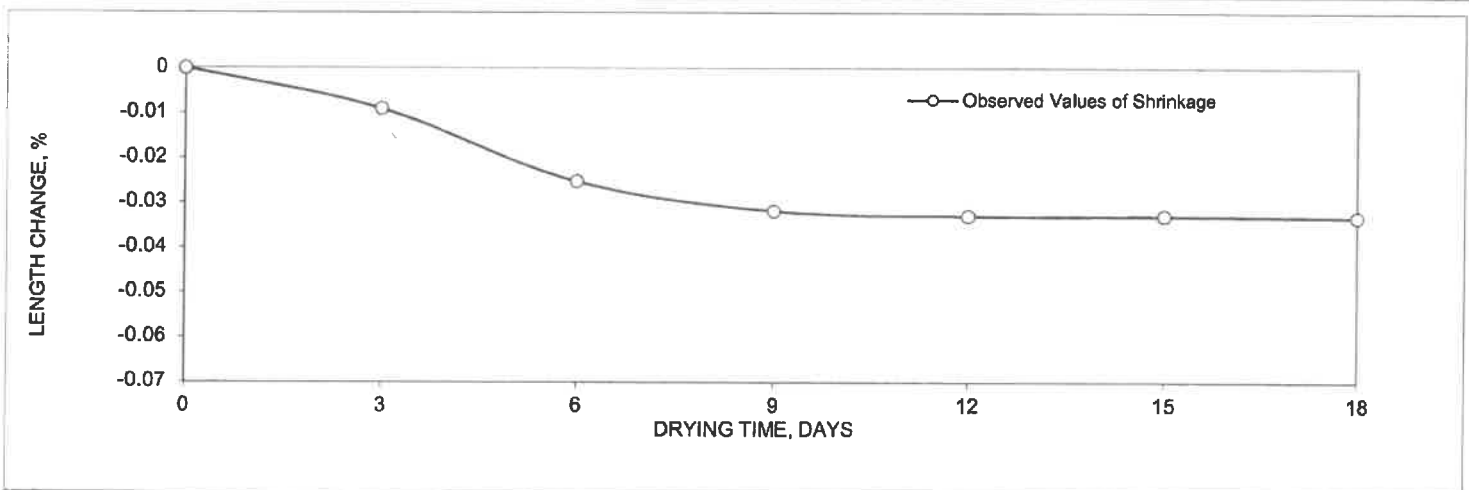
Test Specification: ASTM C 1364

Test Method: ASTM C 426

Unit Description: Rockcast Custom Cast Stone - Hand Tamp CW

Reference Rod Length, in.: 11.62001

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 8/24/2020	3G	0.0000	0.1457	11.7657	n/a	6.2200	n/a	0	0
	3H	0.0000	0.1178	11.7378	n/a	5.9600	n/a		
	3I	0.0000	0.1131	11.7331	n/a	6.2200	n/a		
3 8/27/2020	3G	0.0000	0.1453	11.7653	-0.0034	6.1100	-1.7685	-1.9620	-0.0091
	3H	0.0000	0.1159	11.7359	-0.0162	5.8200	-2.3490		
	3I	0.0000	0.1122	11.7322	-0.0077	6.1100	-1.7685		
6 8/30/2020	3G	0.0000	0.1431	11.7631	-0.0221	6.0900	-2.0900	-2.3441	-0.0253
	3H	0.0000	0.1132	11.7332	-0.0392	5.7900	-2.8523		
	3I	0.0000	0.1114	11.7314	-0.0145	6.0900	-2.0900		
9 9/2/2020	3G	0.0000	0.1422	11.7622	-0.0298	6.0700	-2.4116	-2.6704	-0.0318
	3H	0.0000	0.1125	11.7325	-0.0452	5.7700	-3.1879		
	3I	0.0000	0.1107	11.7307	-0.0205	6.0700	-2.4116		
12 9/5/2020	3G	0.0000	0.1420	11.7620	-0.0315	6.0500	-2.7331	-2.9966	-0.0329
	3H	0.0000	0.1124	11.7324	-0.0460	5.7500	-3.5235		
	3I	0.0000	0.1106	11.7306	-0.0213	6.0500	-2.7331		
15 9/8/2020	3G	0.0000	0.1420	11.7620	-0.0315	6.0500	-2.7331	-2.9966	-0.0329
	3H	0.0000	0.1124	11.7324	-0.0460	5.7500	-3.5235		
	3I	0.0000	0.1106	11.7306	-0.0213	6.0500	-2.7331		
18 9/11/2020	3G	0.0000	0.1420	11.7620	-0.0315	6.0500	-2.7331	-2.9966	-0.0332
	3H	0.0000	0.1123	11.7323	-0.0469	5.7500	-3.5235		
	3I	0.0000	0.1106	11.7306	-0.0213	6.0500	-2.7331		



Linear Shrinkage @ Equilibrium, %: 0.033      ASTM C 90-02, section 5.2 Specification, % Max: 0.065

The units submitted meet specifications for linear shrinkage.

