American Engineering Testing, Inc.
St. Paul
550 Cleveland Ave N
St. Paul, MN 55114
(651) 659-9001
Toll Free: (800) 972-6364

Albertville
5548 Barthel Ind Dr, Ste 500
Albertville, MN 55301
(763) 428-5573
www.amengtest.com

Masonry Test Report

Report No: CU:17-20999-M4
Issue No: 1

Client: MARSHALL CONCRETE PRODUCTS **CC:** Dave Meyer, Fish Fischer

Project: Production Check - Marshall

Minneapolis, MN

Job No: 20-16173

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Date of Issue: 10/27/2017
Reviewed By: John Haupt, Senior Engineer

Sample Details

Sample ID:	17-20999-M4	**Set No.:**	20-16173-4
Specification:	ASTM C90	**Date Received:**	10/12/2017
Supplier:	MARSHALL CONCRETE PRODUCTS	**Type of Unit(s):**	8x4x16 Solid Caps
Size:	8x4x16 Solid Caps		
Sample Location:			

Average Test Results

Width (in):	3.7	**Density (pcf):**	129.9	≥125
Length (in):	15.6	**Absorption (pcf):**	10.3	≤13
Height (in):	7.7	**Equivalent Thickness (in):**	3.6	
Net Area (in²):	56.2	**Gross Area (in²):**	57.2	
Percent Solid:	98.3	**Immersed Weight (lb):**	19.4	
Saturated Weight (lb):	35.0	**Oven Dry Weight (lb):**	32.4	
Maximum Load (lbf):	202860			

Dimensions of Concrete Masonry Units — ASTM C 140

Specimen ID	Date Tested	Width (in)	Height (in)	Length (in)	Min. Face Shell (in)	Gross Volume (ft³)	Gross Area (in²)	Weight Oven Dry (lb)	Net Area (in²)
20-16173-4\1	10-19-17	3.7	7.7	15.6		0.26	57.7	32.6	56.1
20-16173-4\2	10-19-17	3.6	7.7	15.6		0.25	56.2	32.3	56.5
20-16173-4\3	10-19-17	3.7	7.7	15.6		0.26	57.7	32.3	56.1

Compression of Concrete Masonry Units — ASTM C 140

Specimen ID	Date Tested	Width (in)	Height (in)	Length (in)	Maximum Load (lbf)	Gross Area (in²)	Net Area Strength (psi) ≥2000	Gross Strength (psi)
20-16173-4\4	10-26-17	3.7	7.6	15.6	210970	57.7	3750	3650
20-16173-4\5	10-26-17	3.6	7.7	15.6	198130	56.2	3520	3530
20-16173-4\6	10-26-17	3.7	7.6	15.6	199490	57.7	3550	3460
					Average Compressive Strength (psi)		3610	3550
					Specified Strength (psi)		2000	

Notes

Remarks

The samples meet ASTM:C90-16a specifications for concrete masonry units.

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