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-M2
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-M2	**Set No.:**	20-16173-2
Specification:	ASTM C90	**Date Received:**	10/12/2017
Supplier:	MARSHALL CONCRETE PRODUCTS	**Type of Unit(s):**	Plain
Size:	8" x 8" x 16"		
Sample Location:			

Average Test Results

Width (in):	7.6		**Density (pcf):**	131.5	≥125
Length (in):	15.6		**Absorption (pcf):**	10.1	≤13
Height (in):	7.6		**Minimum Face Shell Thickness (in):**	1.28	≥1.25
Minimum Web Thickness (in):	1.02	≥0.75	**Normalized Web Area (in²/ft²):**	33.8	≥6.5
Equivalent Thickness (in):	4.0		**Net Area (in²):**	63.2	
Gross Area (in²):	118.6		**Percent Solid:**	53.3	
Immersed Weight (lb):	22.0		**Saturated Weight (lb):**	39.3	
Oven Dry Weight (lb):	36.5		**Maximum Load (lbf):**	273680	

Dimensions of Concrete Masonry Units — ASTM C 140

Specimen ID	Date Tested	Width (in)	Height (in)	Length (in)	Min. Face Shell (in)	Min. Web Thickness (in)	Gross Volume (ft³)	Gross Area (in²)	Weight Oven Dry (lb)	Net Area (in²)
20-16173-2\1	10-19-17	7.6	7.6	15.6	1.27	1.05	0.52	118.6	35.5	60.5
20-16173-2\2	10-19-17	7.6	7.6	15.6	1.29	1.08	0.52	118.6	35.5	61.2
20-16173-2\3	10-19-17	7.6	7.6	15.6	1.30	0.92	0.52	118.6	38.5	67.8

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)
20-16173-2\4	10-26-17	7.6	7.6	15.6	327000	118.6	5180	2760
20-16173-2\5	10-26-17	7.6	7.6	15.6	251290	118.6	3980	2120
20-16173-2\6	10-26-17	7.6	7.6	15.6	242750	118.6	3840	2050
					Average Compressive Strength (psi)		4330	2310
					Specified Strength (psi)		2000	

Notes

Remarks

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

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