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Masonry Test Report

Report No: CU:17-20999-M1
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-M1	**Set No.:**	20-16173-1
Specification:	ASTM C90	**Date Received:**	10/12/2017
Supplier:	MARSHALL CONCRETE PRODUCTS	**Type of Unit(s):**	Plain
Size:	6" x 8" x 16"		
Sample Location:			

Average Test Results

Width (in):	5.7		**Density (pcf):**	129.0	≥125
Length (in):	15.6		**Absorption (pcf):**	10.3	≤13
Height (in):	7.7		**Minimum Face Shell Thickness (in):**	1.08	≥1.0
Minimum Web Thickness (in):	1.03	≥0.75	**Normalized Web Area (in²/ft²):**	32.9	≥6.5
Equivalent Thickness (in):	3.1		**Net Area (in²):**	48.2	
Gross Area (in²):	89.0		**Percent Solid:**	54.1	
Immersed Weight (lb):	16.4		**Saturated Weight (lb):**	29.8	
Oven Dry Weight (lb):	27.6		**Maximum Load (lbf):**	167650	

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)
20-16173-1\1	10-19-17	5.7	7.7	15.6	1.11	1.04	0.40	88.9	28.9	50.7
20-16173-1\2	10-19-17	5.7	7.7	15.7	1.06	1.04	0.40	89.2	27.0	46.8
20-16173-1\3	10-19-17	5.7	7.6	15.6	1.08	1.02	0.39	88.9	26.8	47.0

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)
20-16173-1\4	10-26-17	5.7	7.7	15.6	185530	88.9	3850	2090
20-16173-1\5	10-26-17	5.7	7.7	15.7	157430	89.5	3270	1760
20-16173-1\6	10-26-17	5.7	7.7	15.6	160000	88.9	3320	1800
					Average Compressive Strength (psi)		3480	1880
					Specified Strength (psi)		2000	

Notes

Remarks

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

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