

BOWSER-MORNER, INC.

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AASHTO/ISO 17025 Accredited

REPORT ON TESTS OF CONCRETE MASONRY UNITS

Report To: Tri-County Block & Brick, Inc.
Attn: Ed Kuhlman
1628 Airport Highway
Swanton, OH 43558

Report Date: 02/28/12
Job No.: 157263
Report No.: 707763
Submitted: 02/17/12

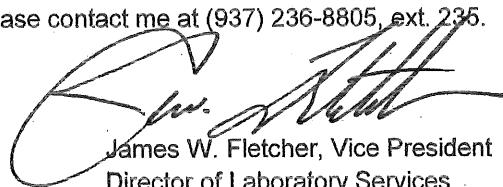
Specs: ASTM C 90
Unit: 8" Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core
16x8x16 Hollow Normal Weight

Test Method: ASTM C 140

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	18D	18E	18F	Average	Individual	Average
Length in Inches	15.50	15.55	15.55			
Width in Inches	15.60	15.60	15.60	15.60		
Height in Inches	7.67	7.67	7.64			
Equiv. Web Thickness, in/ft.	3.34	3.33	3.32	3.33		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.68	1.68	1.68	1.68		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.40	1.39	1.41	1.40		1 Min.
Gross Area, Sq. In.	241.8	242.6	242.6			
No. of Cells	2	2	2			
Total Load in lbs.	325,440	289,600	316,340			
Gross Unit Load, psi	1350	1190	1300	1280		
Gross Volume, Cu. Ft.	1.0733	1.0767	1.0725	1.0742		
Net Unit Load, psi	2950	2620	2870	2810	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	18A	18B	18C	Average	Individual	Average
Wt. As Received, lbs.	63.80	63.90	63.80			
Suspended Wt., lbs.	37.30	37.30	37.25			
Wet Wt., lbs.	67.85	67.85	67.75			
Dry Wt., lbs.	62.20	62.25	62.10			
Absorption, lbs./Cu.Ft.	11.5	11.4	11.6	11.5	15 Max.	13 Max.
Absorption, % of Dry Wt.	9.1	9.0	9.1	9.1		
% Moisture, % Absorption	28.3	29.5	30.1			
Net Vol., Cu. Ft.	0.490	0.490	0.489	0.489		
Net Area, Sq. In.	110.3	110.3	110.6	110.4		
Dry Den, lbs./Cu.Ft.	127.0	127.1	127.1	127.1		
FIRE RATING						
12.5% Limestone Screening, 12.5% #9 Limestone, 75% Limestone Manufactured Sand						
Percent Solids:	45.6	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	7.1	inches	Fire Resistance Rating:		4 hrs.	
LINEAR SHRINKAGE						
Linear Shrinkage @ Equilibrium, %: Testing Not Requested - a complete ASTM C90 specification requires linear shrinkage						

Should you have any questions, or if we may be of further service, please contact me at (937) 236-8805, ext. 235.

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