

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.: 707764
Submitted: 02/17/12

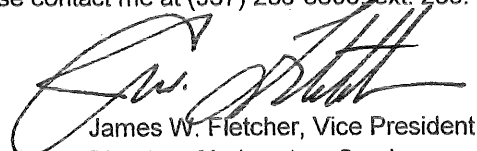
Specs: ASTM C 90
Unit: 8" Lightweight Loadbearing Concrete Masonry Unit - Hollow Core
16x8x16 Hollow Light Weight

Test Method: ASTM C 140

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	19D	19E	19F	Average	Individual	Average
Length in Inches	15.60	15.55	15.60			
Width in Inches	15.60	15.60	15.60	15.60		
Height in Inches	7.64	7.59	7.61			
Equiv. Web Thickness, in/ft.	3.22	3.25	3.23	3.23		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.64	1.64	1.64	1.64		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.37	1.39	1.39	1.38		1 Min.
Gross Area, Sq. In.	243.4	242.6	243.4			
No. of Cells	2	2	2			
Total Load in lbs.	370,160	354,720	349,640			
Gross Unit Load, psi	1520	1460	1440	1470		
Gross Volume, Cu. Ft.	1.0760	1.0655	1.0717	1.0711		
Net Unit Load, psi	3420	3280	3230	3310	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	19A	19B	19C	Average	Individual	Average
Wt. As Received, lbs.	51.75	51.60	51.40			
Suspended Wt., lbs.	25.65	25.70	25.55			
Wet Wt., lbs.	55.45	55.45	55.30			
Dry Wt., lbs.	49.60	49.35	49.45			
Absorption, lbs./Cu.Ft.	12.2	12.8	12.3	12.4	20 Max.	18 Max.
Absorption, % of Dry Wt.	11.8	12.4	11.8	12.0		
% Moisture, % Absorption	36.8	36.9	33.3			
Net Vol., Cu. Ft.	0.478	0.477	0.477	0.477		
Net Area, Sq. In.	108.0	108.5	108.3	108.3		
Dry Den, lbs./Cu.Ft.	103.9	103.5	103.7	103.7		
FIRE RATING						
48.6% Limestone Manufactured Sand, 51.4% Haydite						
Percent Solids:	44.5	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	6.9	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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