

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.: 707730
Submitted: 02/17/12

Specs: ASTM C 90

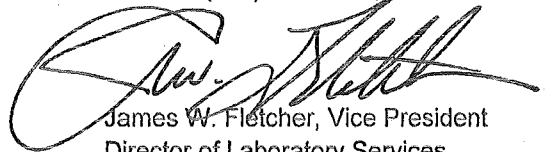
Test Method: ASTM C 140

Unit: 8" Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core
12x4x16 Hollow Founders Brick Normal Weight

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	8D	8E	8F	Average	Individual	Average
Length in Inches	15.52	15.51	15.51			
Width in Inches	11.63	11.64	11.63	11.63		
Height in Inches	3.61	3.62	3.62			
Equiv. Web Thickness, in/ft.	4.06	4.05	4.05	4.05		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.50	1.49	1.50	1.50		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.97	1.97	1.97	1.97		1 Min.
Gross Area, Sq. In.	180.5	180.5	180.4			
No. of Cells	2	2	2			
Total Load in lbs.	450,840	453,240	396,820			
Gross Unit Load, psi	2500	2510	2200	2400		
Gross Volume, Cu. Ft.	0.3771	0.3782	0.3779	0.3777		
Net Unit Load, psi	4720	4750	4160	4540	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	8A	8B	8C	Average	Individual	Average
Wt. As Received, lbs.	27.85	28.40	27.70			
Suspended Wt., lbs.	16.10	16.45	16.00			
Wet Wt., lbs.	28.55	28.95	28.45			
Dry Wt., lbs.	27.20	27.70	27.10			
Absorption, lbs./Cu.Ft.	6.8	6.2	6.8	6.6	15 Max.	13 Max.
Absorption, % of Dry Wt.	5.0	4.5	5.0	4.8		
% Moisture, % Absorption	48.1	56.0	44.4			
Net Vol., Cu. Ft.	0.200	0.200	0.200	0.200		
Net Area, Sq. In.	95.5	95.6	95.2	95.5		
Dry Den, lbs./Cu.Ft.	136.3	138.3	135.8	136.8		
FIRE RATING						
12.5% Limestone Screening, 12.5% #9 Limestone, 75% Limestone Manufactured Sand						
Percent Solids:	52.9	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	6.2	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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