

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
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Swanton, OH 43558

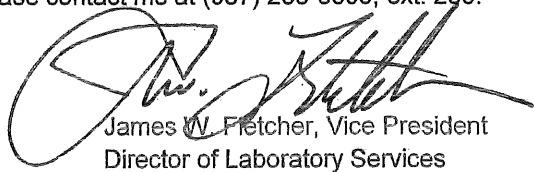
Report Date: 02/28/12
Job No.: 157263
Report No.: 707721
Submitted: 02/17/12
Test Method: ASTM C 140

Specs: ASTM C 90
Unit: 8" Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core
10x8x16 Hollow Split Face Normal Weight

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	3D	3E	3F	Average	Individual	Average
Length in Inches	15.60	15.60	15.60			
Width in Inches	9.90	9.88	9.85	9.88		
Height in Inches	7.69	7.69	7.67			
Equiv. Web Thickness, in/ft.	2.62	2.62	2.61	2.62		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.41	1.42	1.42	1.42		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.10	1.10	1.10	1.10		1 Min.
Gross Area, Sq. In.	154.4	154.1	153.7			
No. of Cells	2	2	2			
Total Load in lbs.	341,040	356,080	351,320			
Gross Unit Load, psi	2210	2310	2290	2270		
Gross Volume, Cu. Ft.	0.6873	0.6859	0.6820	0.6851		
Net Unit Load, psi	4420	4620	4550	4530	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	3A	3B	3C	Average	Individual	Average
Wt. As Received, lbs.	48.30	47.75	47.95			
Suspended Wt., lbs.	28.00	27.95	28.20			
Wet Wt., lbs.	49.40	49.35	49.60			
Dry Wt., lbs.	47.10	46.90	47.45			
Absorption, lbs./Cu.Ft.	6.7	7.1	6.3	6.7	15 Max.	13 Max.
Absorption, % of Dry Wt.	4.9	5.2	4.5	4.9		
% Moisture, % Absorption	52.2	34.7	23.3			
Net Vol., Cu. Ft.	0.343	0.343	0.343	0.343		
Net Area, Sq. In.	77.1	77.1	77.3	77.1		
Dry Den, lbs./Cu.Ft.	137.3	136.8	138.4	137.5		
FIRE RATING						
12.5% Limestone Screening, 12.5% #9 Limestone, 75% Limestone Manufactured Sand						
Percent Solids:	50.1	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	4.9	inches	Fire Resistance Rating:	2 7/8 hr. (2.9 hr.)		
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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