

BOWSER-MORNER, INC.

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REPORT ON TESTS OF CONCRETE MASONRY UNITS

Report To: Tri-County Block & Brick Inc.
Attn: Donovan Cooley
1628 U.S. Route 20A
Swanton, OH 43558

Report Date: 04/14/19

Job No.: 189564

Report No.: 114480

No. of Pages: 1

Date Made: Unknown

Date Received: 03/28/19

Specs: ASTM C 90 (Strength & Absorption Only)

Test Method: ASTM C 140

Unit: 6" Lightweight Loadbearing Concrete Masonry Unit - Hollow Core

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	2D	2E	2F	Average	Individual	Average
Length in Inches	15.59	15.60	15.59			
Width in Inches	5.64	5.65	5.64	5.64		
Height in Inches	7.64	7.65	7.62			
Norm. Web Area, Sq in./Sq. ft.	34.72	34.77	34.97	34.8		6.5 Min.
Equiv. Web Thickness, in/ft.	2.34	2.34	2.36	2.34		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.27	1.26	1.27	1.27		1 Min.
Min. Web Thickness, in.	1.01	1.01	1.02	1.01		1 Min.
Gross Area, Sq. In.	87.9	88.1	87.9			
No. of Cells	2	2	2			
Total Load in lbs.	128,560	114,370	106,680			
Gross Unit Load, psi	1460	1300	1210	1320		
Gross Volume, Cu. Ft.	0.3888	0.3902	0.3877	0.3889		
Net Unit Load, psi	2300	2040	1910	2080	1800 Min	2000 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	2A	2B	2C	Average	Individual	Average
Wt. As Received, lbs.	22.86	22.66	22.65			
Suspended Wt., lbs.	9.56	9.41	9.43			
Wet Wt., lbs.	25.00	24.85	24.87			
Dry Wt., lbs.	21.66	21.67	21.59			
Absorption, lbs./Cu.Ft.	13.5	12.9	13.3	13.2	20 Max.	18 Max.
Absorption, % of Dry Wt.	15.4	14.7	15.2	15.1		
% Moisture, % Absorption	35.9	31.1	32.3			
Net Vol., Cu. Ft.	0.247	0.247	0.247	0.247		
Net Area, Sq. In.	56.0	55.9	56.1	56.0		
Dry Den, lbs./Cu.Ft.	87.5	87.6	87.3	87.5		
FIRE RATING						
Aggregate Type:	70% Expanded Shale / 30% Limestone No. 9 and Sand					
Percent Solids:	63.6 %		Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	3.6 inches		Fire Resistance Rating:		1.9 Hours	
SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)						
STC Rating: 42 (TEK 13-1C, 2012 - Table 1 - Calculated STC Ratings for Concrete Masonry Walls)						

Should you have any questions, or if we may be of further service, please contact me at (937) 236-8805, ext. 322.

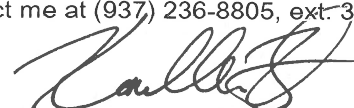
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