BOWSER-MORNER, INC.

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REPORT ON TESTS OF CONCRETE MASONRY UNITS

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

Report Date: 08/19/16
Job No.: 176021
Report No.: 200719A
No. of Pages: 1

Date Made: n/a

Date Received: 07/27/16

Specs: ASTM C 90 (Strength & Absorption Only)
Unit: 4" Solid Normal Weight Loadbearing Concrete Masonry Units

Test Method: ASTM C 140

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	4D	4E	4F	Average	Individual	Average
Length in Inches	15.54	15.54	15.54			
Width in Inches	3.60	3.60	3.60	3.60		
Height in Inches	7.60	7.60	7.60			
Gross Area, Sq. In.	55.9	55.9	55.9			
No. of Cells	0	0	0			
Total Load in lbs.	164,995	218,460	181,775			
Gross Unit Load, psi	2950	3900	3250	3370		
Gross Volume, Cu. Ft.	0.2461	0.2461	0.2461	0.2461		
Net Unit Load, psi	**2950**	**3900**	**3250**	**3370**	1800 Min.	2000 Min.
ABSORPTION					**SPECIFICATIONS**	
Specimen No.	4A	4B	4C	Average	Individual	Average
Wt. As Received, lbs.	32.99	32.60	32.41			
Suspended Wt., lbs.	19.48	19.28	19.24			
Wet Wt., lbs.	34.87	34.67	34.58			
Dry Wt., lbs.	32.37	32.08	31.78			
Absorption, lbs./Cu.Ft.	**10.1**	**10.5**	**11.4**	**10.7**	15 Max.	13 Max.
Absorption, % of Dry Wt.	7.7	8.1	8.8	8.2		
% Moisture, % Absorption	24.8	20.1	22.5			
Net Vol., Cu. Ft.	0.247	0.247	0.246	0.246		
Net Area, Sq. In.	56.1	56.1	55.9	56.0		
Dry Den, lbs./Cu.Ft.	131.2	130.1	129.3	130.2		

FIRE RATING			
Aggregate Type:	82% Limestone / 18% Siliceous Sand		
Percent Solids:	100.0 %	Ohio Building Code (OBC) Table 721.3.2	
Equivalent Thickness:	3.6 inches	Fire Resistance Rating:	***1.6 hrs***

SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)

TSC Rating: 48 (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.

KAF/bk/llg
200719A
1-File
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