BOWSER-MORNER, INC.

Delivery Address: 4518 Taylorsville Road Dayton, Ohio 45424 Mailing Address: P.O. Box 51 Dayton, Ohio 45401
AASHTO/ISO 17025 Accredited

REPORT ON TESTS OF CONCRETE MASONRY UNITS

Report To: Tri-County Block & Brick
Attn: Donavan Cooley
1628 US 20A
Swanton, OH 43558

Report Date: 03/31/17
Job No.: 178718
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Date Made: n/a
Date Received: 03/01/17

Specs: ASTM C 90 (Strength & Absorption Only)
Test Method: ASTM C 140
Unit: 8" Medium Weight Loadbearing Concrete Masonry Unit - Hollow Core 8 x 8 x 16

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	3D	3E	3F	Average	Individual	Average
Length in Inches	15.58	15.60	15.60			
Width in Inches	7.60	7.60	7.60	7.60		
Height in Inches	7.60	7.58	7.60			
Equiv. Web Thickness, in/ft.	2.39	2.38	2.45	**2.41**		2 1/4 (2.25) Min.
Norm. Web Area sq in/sq ft	8.72	8.70	8.98	**8.80**		6.5 Min.
Min. OW Thickness, in.	1.29	1.29	1.28	**1.29**		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.02	1.02	1.05	**1.03**		1 Min.
Gross Area, Sq. In.	118.4	118.6	118.6			
No. of Cells	2	2	2			
Total Load in lbs.	197,930	186,330	212,295			
Gross Unit Load, psi	1670	1570	1790	1680		
Gross Volume, Cu. Ft.	0.5208	0.5201	0.5214	0.5208		
Net Unit Load, psi	**3210**	**3020**	**3440**	**3220**	1800 Min.	2000 Min.
ABSORPTION					**SPECIFICATIONS**	
Specimen No.	3A	3B	3C	Average	Individual	Average
Wt. As Received, lbs.	31.29	31.06	31.19			
Suspended Wt., lbs.	16.43	16.35	16.40			
Wet Wt., lbs.	33.36	33.28	33.30			
Dry Wt., lbs.	30.05	29.98	30.02			
Absorption, lbs./Cu.Ft.	**12.2**	**12.2**	**12.1**	**12.2**	17 Max.	15 Max.
Absorption, % of Dry Wt.	11.0	11.0	10.9	11.0		
% Moisture, % Absorption	37.5	32.7	35.7			
Net Vol., Cu. Ft.	0.271	0.271	0.271	0.271		
Net Area, Sq. In.	61.7	61.9	61.6	61.7		
Dry Den, lbs./Cu.Ft.	110.8	110.5	110.8	110.7		

FIRE RATING			
Aggregate Type:	49% Limestone, 45% Haydite, 6% Siliceous Sand		
Percent Solids:	52.1 %	Ohio Building Code (OBC) Table 721.3.2	
Equivalent Thickness:	4.0 inches	Fire Resistance Rating:	**2.2 hrs**

SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)
STC Rating: 46 (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
200856
1-File
1-donavan@tricountyblock.com

Karl A. Fletcher, Manager
Construction Materials and
Geotechnical Laboratories
CMTT No. 7606

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