

BOWSER-MORNER, INC.

Delivery Address: 4518 Taylorsville Rd • Dayton, Ohio 45424 Mailing Address: P.O. Box 51 • Dayton, Ohio 45401

AASHTO/ISO 17025 Accredited • USACE Validated



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.: 114499

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: 12" Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	5D	5E	5F	Average	Individual	Average
Length in Inches	15.54	15.57	15.55			
Width in Inches	11.64	11.64	11.64	11.64		
Height in Inches	7.63	7.60	7.62			
Norm. Web Area, Sq in./Sq. ft.	22.49	21.89	21.95	22.1		6.5 Min.
Equiv. Web Thickness, in/ft.	3.03	3.01	2.99	3.01		2 1/2 (2.50) Min.
Min. OW Thickness, in.	1.57	1.57	1.54	1.56		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.31	1.28	1.28	1.29		1 1/8 (1.125) Min.
Gross Area, Sq. In.	180.9	181.2	181.0			
No. of Cells	2	2	2			
Total Load in lbs.	253,980	273,545	221,420			
Gross Unit Load, psi	1400	1510	1220	1380		
Gross Volume, Cu. Ft.	0.7987	0.7971	0.7982	0.7980		
Net Unit Load, psi	2950	3170	2570	2900	1800 Min	2000 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	5A	5B	5C	Average	Individual	Average
Wt. As Received, lbs.	49.73	49.71	49.07			
Suspended Wt., lbs.	29.08	29.03	28.60			
Wet Wt., lbs.	52.88	52.83	52.11			
Dry Wt., lbs.	49.23	49.17	48.54			
Absorption, lbs./Cu.Ft.	9.6	9.6	9.5	9.5	15 Max.	13 Max.
Absorption, % of Dry Wt.	7.4	7.4	7.4	7.4		
% Moisture, % Absorption	13.7	14.8	14.8			
Net Vol., Cu. Ft.	0.381	0.381	0.377	0.380		
Net Area, Sq. In.	86.4	86.7	85.4	86.2		
Dry Den, lbs./Cu.Ft.	129.1	128.9	128.8	128.9		
FIRE RATING						
Aggregate Type:	70% Limestone No. 9 and Manufactured Sand / 30% RPCC					
Percent Solids:	47.6	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	5.5	inches	Fire Resistance Rating:		3.25 Hours	
SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)						
STC Rating: 52 (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.

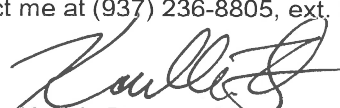
KAF/bk/jlh

114499

1-File

1-donavan@tricountyblock.com

1-cnewton@bowser-morner.com


Karl A. Fletcher, Manager
Construction Materials and
Geotechnical Laboratories