

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: Donavan Cooley
1628 U.S. Route 20A
Swanton, OH 43558

Report Date: 04/14/19

Job No.: 189564

Report No.: 114479

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: 8" Lightweight Loadbearing Concrete Masonry Unit - Hollow Core

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	1D	1E	1F	Average	Individual	Average
Length in Inches	15.59	15.58	15.58			
Width in Inches	7.65	7.63	7.63	7.64		
Height in Inches	7.63	7.62	7.61			
Norm. Web Area, Sq in./Sq. ft.	27.55	27.26	27.22	27.3		6.5 Min.
Equiv. Web Thickness, in/ft.	2.49	2.46	2.47	2.48		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.28	1.27	1.25	1.27		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.07	1.06	1.06	1.06		1 Min.
Gross Area, Sq. In.	119.3	118.9	118.9			
No. of Cells	2	2	2			
Total Load in lbs.	143,475	113,260	127,680			
Gross Unit Load, psi	1200	950	1070	1070		
Gross Volume, Cu. Ft.	0.5266	0.5242	0.5235	0.5248		
Net Unit Load, psi	2310	1820	2050	2060	1800 Min	2000 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	1A	1B	1C	Average	Individual	Average
Wt. As Received, lbs.	25.66	25.82	25.25			
Suspended Wt., lbs.	11.66	11.74	11.47			
Wet Wt., lbs.	28.81	28.94	28.45			
Dry Wt., lbs.	25.09	25.26	24.70			
Absorption, lbs./Cu.Ft.	13.5	13.4	13.8	13.6	20 Max.	18 Max.
Absorption, % of Dry Wt.	14.8	14.6	15.2	14.9		
% Moisture, % Absorption	15.3	15.2	14.7			
Net Vol., Cu. Ft.	0.275	0.276	0.272	0.274		
Net Area, Sq. In.	62.2	62.5	61.8	62.2		
Dry Den, lbs./Cu.Ft.	91.3	91.6	90.8	91.2		
FIRE RATING						
Aggregate Type:	70% Expanded Shale / 30% Limestone No. 9 and Sand					
Percent Solids:	52.3	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	4.0	inches	Fire Resistance Rating:		2.3 Hours	
SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)						
STC Rating: 44 (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.

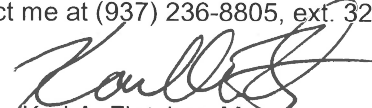
KAF/bk/jlh

114479

1-File

1-donavan@tricountyblock.com

1-cnewton@bowser-morner.com


Karl A. Fletcher, Manager
Construction Materials and
Geotechnical Laboratories