

BOWSER-MORNER, INC.

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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.: 114498

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

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	4D	4E	4F	Average	Individual	Average
Length in Inches	15.55	15.55	15.56			
Width in Inches	9.64	9.65	9.65	9.65		
Height in Inches	7.60	7.64	7.66			
Norm. Web Area, Sq in./Sq. ft.	23.39	23.52	23.58	23.5		6.5 Min.
Equiv. Web Thickness, in/ft.	2.66	2.65	2.65	2.65		2 1/2 (2.50) Min.
Min. OW Thickness, in.	1.41	1.42	1.40	1.41		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.14	1.14	1.14	1.14		1 1/8 (1.125) Min
Gross Area, Sq. In.	149.9	150.1	150.2			
No. of Cells	2	2	2			
Total Load in lbs.	318,930	285,945	270,895			
Gross Unit Load, psi	2130	1910	1800	1950		
Gross Volume, Cu. Ft.	0.6593	0.6634	0.6656	0.6628		
Net Unit Load, psi	4430	3970	3760	4050	1800 Min	2000 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	4A	4B	4C	Average	Individual	Average
Wt. As Received, lbs.	43.10	42.92	43.17			
Suspended Wt., lbs.	25.34	25.21	25.43			
Wet Wt., lbs.	45.21	45.07	45.27			
Dry Wt., lbs.	42.57	42.37	42.63			
Absorption, lbs./Cu.Ft.	8.3	8.5	8.3	8.4	15 Max.	13 Max.
Absorption, % of Dry Wt.	6.2	6.4	6.2	6.3		
% Moisture, % Absorption	20.1	20.4	20.5			
Net Vol., Cu. Ft.	0.318	0.318	0.318	0.318		
Net Area, Sq. In.	72.4	72.0	71.7	72.0		
Dry Den, lbs./Cu.Ft.	133.7	133.1	134.1	133.6		
FIRE RATING						
Aggregate Type:	70% Limestone No. 9 and Manufactured Sand / 30% RPCC					
Percent Solids:	48.0	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	4.6	inches	Fire Resistance Rating:		2.3 Hours	
SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)						
STC Rating: 51 (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.

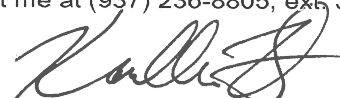
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