

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 Brick and Block
Attn: Ed Kuhlman
1628 US Highway 20A
Swanton, OH 43558

Report Date: 05/18/15
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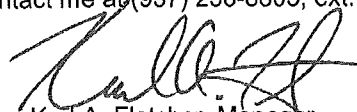
Specs: ASTM C 90 (Strength & Absorption Only)
Unit: 4" Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core

Test Method: ASTM C 140

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	1D	1E	1F	Average	Individual	Average
Length in Inches	15.57	15.57	15.58			
Width in Inches	3.62	3.65	3.65	3.64		
Height in Inches	7.60	7.62	7.59			
Equiv. Web Thickness, in/ft.	2.43	2.45	2.44	2.44		1 5/8 (1.625) Min.
Min. OW Thickness, in.	1.02	1.02	1.03	1.02		3/4 (.75) Min.
Min. Web Thickness, in.	1.06	1.07	1.07	1.07		3/4 (.75) Min.
Gross Area, Sq. In.	56.4	56.8	56.9			
No. of Cells	3	3	3			
Total Load in lbs.	186,880	185,240	183,340			
Gross Unit Load, psi	3320	3260	3220	3270		
Gross Volume, Cu. Ft.	0.2479	0.2506	0.2498	0.2494		
Net Unit Load, psi	4520	4480	4430	4480	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	1A	1B	1C	Average	Individual	Average
Wt. As Received, lbs.	25.15	25.04	25.25			
Suspended Wt., lbs.	14.72	14.67	14.80			
Wet Wt., lbs.	26.09	26.00	26.17			
Dry Wt., lbs.	24.48	24.40	24.56			
Absorption, lbs./Cu.Ft.	8.8	8.8	8.8	8.8	15-Max.	13-Max.
Absorption, % of Dry Wt.	6.6	6.6	6.6	6.6		
% Moisture, % Absorption	41.6	40.0	42.9			
Net Vol., Cu. Ft.	0.182	0.182	0.182	0.182		
Net Area, Sq. In.	41.4	41.2	41.5	41.4		
Dry Den, lbs./Cu.Ft.	134.3	134.4	134.8	134.5		
FIRE RATING						
Aggregate Type:			86% crushed carbonate stone & sand, 14% siliceous sand			
Percent Solids:			Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:			Fire Resistance Rating:		1 hr	
LINEAR SHRINKAGE						
Linear Shrinkage @ Equilibrium, %:			Testing Not Requested - a complete ASTM C90 specification requires linear shrinkage			

Should you have any questions, or if we may be of further service, please contact me at (937) 236-8805, ext. 322.

KAF/bk/lbg
200152
1-File
1-ed@tricityblock.com


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

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