

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, Inc.
Attn: Ed Kuhlman
1628 Airport Highway
Swanton, OH 43558

Report Date: 02/28/12
Job No.: 157263
Report No.: 707719
Submitted: 02/17/12

Specs: ASTM C 90

Test Method: ASTM C 140

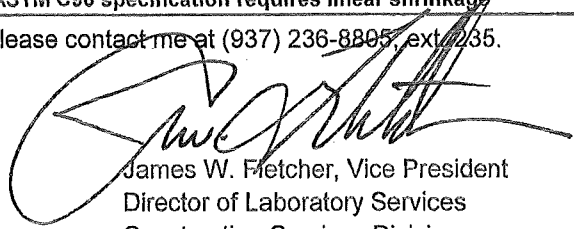
Unit: Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core
4x8 x16 Hollow Split Face Normal Weight

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	1D	1E	1F	Average	Individual	Average
Length in Inches	15.50	15.50	15.50			
Width in Inches	3.85	3.83	3.84	3.84		
Height in Inches	7.62	7.66	7.70			
Equiv. Web Thickness, in/ft.	2.60	2.59	2.55	2.58		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.09	1.08	1.05	1.07		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.07	1.06	1.06	1.06		1 Min.
Gross Area, Sq. In.	59.7	59.4	59.5			
No. of Cells	3	3	3			
Total Load in lbs.	226,600	239,040	253,980			
Gross Unit Load, psi	3800	4030	4270	4030		
Gross Volume, Cu. Ft.	0.2632	0.2632	0.2652	0.2638		
Net Unit Load, psi	4240	4470	4750	4490	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	1A	1B	1C	Average	Individual	Average
Wt. As Received, lbs.	32.70	31.95	32.40			
Suspended Wt., lbs.	18.70	18.25	18.40			
Wet Wt., lbs.	33.70	32.85	33.15			
Dry Wt., lbs.	32.00	31.25	31.35			
Absorption, lbs./Cu.Ft.	7.1	6.8	7.6	7.2	15 Max.	13 Max.
Absorption, % of Dry Wt.	5.3	5.1	5.7	5.4		
% Moisture, % Absorption	41.2	43.7	58.3			
Net Vol., Cu. Ft.	0.240	0.234	0.236	0.237		
Net Area, Sq. In.	54.5	52.8	53.0	53.4		
Dry Den, lbs./Cu.Ft.	133.1	133.6	132.6	133.1		
FIRE RATING						
12.5% Limestone Screening, 12.5% #9 Limestone, 75% Limestone Manufactured Sand						
Percent Solids:	89.8	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	3.4	inches	Fire Resistance Rating:	1 1/2 hr. (1.5 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) 236-8895, ext. 235.

JWF/bk/lbg
707719

1-File
1-ed@tricityblock.com


James W. Fletcher, Vice President
Director of Laboratory Services
Construction Services Division
CMTT# 0112

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