

BOWSER-MORNER, INC.

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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

Job No.: 170465

Report No.: 200153

No. of Pages: 1

Date Made: N/A

Date Received: 05/08/15

Date(s) of Performance: 5/12/2015

Specs: ASTM C 90 (Strength & Absorption Only)

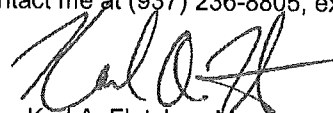
Test Method: ASTM C 140

Unit: 6" Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	2D	2E	2F	Average	Individual	Average
Length in Inches	15.57	15.57	15.56			
Width in Inches	5.63	5.63	5.62	5.63		
Height in Inches	7.66	7.66	7.62			
Equiv. Web Thickness, in/ft.	2.74	2.75	2.74	2.74		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.03	1.02	1.02	1.02		1 Min.
Min. Web Thickness, in.	1.25	1.27	1.25	1.26		1 Min.
Gross Area, Sq. In.	87.7	87.7	87.4			
No. of Cells	2	2	2			
Total Load in lbs.	252,520	246,380	251,080			
Gross Unit Load, psi	2880	2810	2870	2850		
Gross Volume, Cu. Ft.	0.3886	0.3886	0.3856	0.3876		
Net Unit Load, psi	5090	4970	5060	5040	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	2A	2B	2C	Average	Individual	Average
Wt. As Received, lbs.	30.46	30.67	30.70			
Suspended Wt., lbs.	17.95	18.10	18.09			
Wet Wt., lbs.	31.60	31.73	31.90			
Dry Wt., lbs.	29.76	30.00	29.98			
Absorption; lbs./Cu.Ft.	8.4	7.9	8.7	8.3	15-Max.	13 Max.
Absorption, % of Dry Wt.	6.2	5.8	6.4	6.1		
% Moisture, % Absorption	38.0	38.7	37.5			
Net Vol., Cu. Ft.	0.219	0.218	0.221	0.219		
Net Area, Sq. In.	49.3	49.3	50.2	49.6		
Dry Den, lbs./Cu.Ft.	136.0	137.3	135.5	136.3		
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 1/2 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.

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