

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: 07/17/15
Job No.: 170465
Report No.: 200154B
No. of Pages: 2

Date Made: N/A
Date(s) of Performance: 5/12/2015

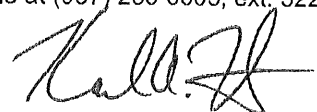
Date Received: 05/08/15

Specs: ASTM C 90
Unit: 8" Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core

Test Methods: ASTM C 140, C 426

COMPRESSIVE STRENGTH					SPECIFICATIONS	
Specimen No.	3D	3E	3F	Average	Individual	Average
Length in Inches	15.57	15.58	15.57			
Width in Inches	7.63	7.64	7.64	7.64		
Height in Inches	7.61	7.61	7.60			
Equiv. Web Thickness, in/ft.	2.36	2.36	2.36	2.36		2 1/4 (2.25) Min.
Min. OW Thickness, in.	1.27	1.27	1.27	1.27		1 1/4 (1.25) Min.
Min. Web Thickness, in.	1.01	1.01	1.01	1.01		1 Min.
Gross Area, Sq. In.	118.8	119.0	119.0			
No. of Cells	2	2	2			
Total Load in lbs.	275,120	263,820	267,860			
Gross Unit Load, psi	2320	2220	2250	2260		
Gross Volume, Cu. Ft.	0.5232	0.5242	0.5232	0.5235		
Net Unit Load, psi	4450	4270	4330	4350	1700 Min.	1900 Min.
ABSORPTION					SPECIFICATIONS	
Specimen No.	3A	3B	3C	Average	Individual	Average
Wt. As Received, lbs.	38.14	38.37	37.96			
Suspended Wt., lbs.	22.42	22.53	22.26			
Wet Wt., lbs.	39.36	39.55	39.27			
Dry Wt., lbs.	37.13	37.33	36.98			
Absorption, lbs./Cu.Ft.	8.2	8.1	8.4	8.3	15 Max.	13 Max.
Absorption, % of Dry Wt.	6.0	5.9	6.2	6.0		
% Moisture, % Absorption	45.3	46.8	42.8			
Net Vol., Cu. Ft.	0.271	0.273	0.273	0.272		
Net Area, Sq. In.	61.6	61.9	62.0	61.9		
Dry Den, lbs./Cu.Ft.	136.8	136.9	135.7	136.4		
FIRE RATING						
Aggregate Type:	86% crushed carbonate stone & sand, 14% siliceous sand					
Percent Solids:	52.0	%	Ohio Building Code (OBC) Table 721.3.2			
Equivalent Thickness:	4.0	inches	Fire Resistance Rating:		2 hr	
LINEAR SHRINKAGE						
Linear Shrinkage @ Equilibrium, %:		0.034	ASTM C 90, section 5.2 Specification, % Max: 0.065			
SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)						
TSC Rating:	49	(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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