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

1F

Report To:

Tri-County Block & Brick, Inc.

Attn: Donavan Cooley

1628 U.S. 20A

Swanton, OH 43558

Report Date: 08/19/16

Job No.:

176021

Report No.:

200716

No. of Pages:

07/27/16

Date Made:

1D

Date Received: Test Method:

Individual

ASTM C 140

Average

Specs: Unit:

ASTM C 90 (Strength & Absorption Only)

Split Face

Average

SPECIFICATIONS

Specimen No.

Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core

1E

COMPRESSIVE STRENGTH

Length in Inches 15.56 15.56 15.58 Width in Inches 7.80 7.78 7.74 7.77 Height in Inches 7.54 7.60 7.58 Equiv. Web Thickness, in/ft. 2,44 2.38 2.38 2.40 2 1/4 (2.25) Min. Norm. Web Area, sq in/sq ft 8.91 8.72 8.53 8.7 6.5 Min. Min. OW Thickness, in. 1.36 1.35 1.35 1.35 1 1/4 (1.25) Min. Min. Web Thickness, in. 1.05 1.02 1.00 1.02 1 Min. Gross Area, Sq. In. 121.4 121.1 120.6 No. of Cells 2 2 2 Total Load in lbs. 393,945 348,520 342,835 Gross Unit Load, psi 3250 2880 2840 2990 Gross Volume, Cu. Ft. 0.5296 0.5324 0.5290 0.5303 Net Unit Load, psi 5860 5190 5100 5380 1800 Min. 2000 Min. **ABSORPTION SPECIFICATIONS** Specimen No. 1A 1B 1C Average Individual Average Wt. As Received, lbs. 40.71 40.27 41.27 Suspended Wt., lbs. 23.98 23.81 24.04 Wet Wt., lbs. 42.27 41.94 42.76 Dry Wt., lbs. 40.22 39.87 40.81 Absorption, lbs./Cu.Ft. 7.0 7.1 6.5 6.9 15 Max. 13 Max. Absorption, % of Dry Wt. 5.1 5.2 4.8 5.0 % Moisture, % Absorption 23.9 19.3 23.6 Net Vol., Cu. Ft.

F	R	Е	R/	AT	IN	IG
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0.300

68.4

136.0

FIRE RATING									
Aggregate Type:	78% Lime	78% Limestone / 22% Siliceous Sand							
Percent Solids:	55.5	%	Ohio Building Code (OBC) Table 721.3.2						
Equivalent Thickness:	4.3	inches	Fire Resistance Rating:	2.2 Hrs					
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)

0.293

67.2

137.2

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

0.291

66.1

137.2

KAF/bk/llg 200716 1-File

Net Area, Sq. In.

Dry Den, Ibs./Cu.Ft.

1-donavan@tricountyblock.com

Karl A. Fletcher, Manager Construction Materials and Geotechnical Laboratories

CMTT No. 7606

0.295

67.2

136.8

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