BOWSER-MORNER, INC.

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REPORT ON TESTS OF CONCRETE MASONRY UNITS

Report To:

Tri-County Block & Brick Inc.

Attn: Donavan Cooley 1628 U.S. Route 20A

Swanton, OH 43558

Report Date:

04/14/19 Job No.: 189564

1

Report No.: 114481

No. of Pages:

Date Made:

Unknown

Date Received:

03/28/19

Specs:

ASTM C 140

Unit:

ASTM C 90 (Strength & Absorption Only)

Test Method: Hollow Bottom Bond Beam

Normal Weight Loadbearing Concrete Masonry Unit - Hollow Core

COMPRESSIVE STRENGTH SPECIFICATIONS Specimen No. 3D 3E 3F Average Individual Average Length in Inches 15.60 15.59 15.59 Width in Inches 7.58 7.60 7.59 7.59 Height in Inches 7.63 7.60 7.62 Norm. Web Area, Sq in./Sq. ft. 32.19 32.06 32.15 32.1 6.5 Min. Equiv. Web Thickness, in/ft. 2.89 2.90 2.89 2.90 2 1/4 (2.25) Min. Min. OW Thickness, in. 1.53 1.52 1.53 1.53 1 1/4 (1.25) Min. Min. Web Thickness, in. 1.25 1.25 1.25 1.25 1 Min. Gross Area, Sq. In. 118.2 118.5 118.3 No. of Cells 2 2 2 Total Load in lbs. 174,260 163.080 170,170 Gross Unit Load, psi 1470 1380 1440 1430 Gross Volume, Cu. Ft. 0.5221 0.5211 0.5218 0.5217 Net Unit Load, psi 2610 2440 2550 2530 1800 Min 2000 Min. **ABSORPTION SPECIFICATIONS** Specimen No. 3A 3B 3C Average Individual Average Wt. As Received, lbs. 39.99 39.85 39.85 Suspended Wt., lbs. 23.30 23.21 23.20 Wet Wt., lbs. 41.71 41.61 41.56 Dry Wt., Ibs. 39.09 39.00 38.90 Absorption, Ibs./Cu.Ft. 8.9 8.9 9.0 8.9 15 Max. 13 Max. Absorption, % of Dry Wt. 6.7 6.7 6.8 6.7 % Moisture, % Absorption 34.4 32.6 35.7 Net Vol., Cu. Ft. 0.295 0.295 0.294 0.295 Net Area, Sq. In. 66.8 67.0 66.7 66.9 Dry Den, Ibs./Cu.Ft. 132.5 132.3 132.2 132.3 **FIRE RATING** Aggregate Type: 70% Limestone No. 9 and Manufactured Sand / 30% RPCC Percent Solids: 56.5

Ohio Building Code (OBC) Table 721.3.2 Fire Resistance Rating: 2.1 Hours

SOUND TRANSMISSION CLASS (STC) RATING (TEK 13-1C, 2012)

inches

STC Rating: 49 (TEK 13-1C, 2012 - Table 1 - Calculated STC Ratings for Concrete Masonry Walls)

4.3

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

KAF/bk/jlh

114481

1-File

1-donavan@tricountyblock.com

Equivalent Thickness:

1-cnewton@bowser-morner.com

Karl A. Fletcher, Manager Construction Materials and Geotechnical Laboratories

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