



BRICK TEST REPORT

Results of Tests on Brick conducted in accordance with ASTM C67-14 Standard Method for Sampling and Testing Brick and Structural Clay Tile

Client: The Belden Brick Company
P.O. Box 20910
Canton, OH 44701-0910

Project: Lab Testing Project Number: 1710532.4A

Date Received: August 15, 2017 Sample Date:

Source of Bricks: The Belden Brick Company

Sample Description: PLT 3, Sand Mold – Face Brick

| Absorption | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|--|------|------|------|------|------|---------|-----------|
| 24 Hour Submersion in Cold Water (%) | 5.8 | 5.7 | 6.5 | 6.6 | 6.8 | 6.3 | 8/11/17 |
| 5 Hour Submersion in Boiling Water (%) | 7.3 | 9.4 | 8.4 | 10.0 | 8.8 | 8.8 | |
| Saturation Coefficient (Ratio of 24hr to 5hr) | 0.79 | 0.61 | 0.77 | 0.66 | 0.77 | 0.72 | |

| Compressive Strength | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|----------------------|-------|-------|-------|-------|-------|---------|-----------|
| <i>psi</i> | 7,410 | 8,130 | 4,860 | 4,970 | 5,720 | 6,220 | 8/10/17 |
| <i>MPa</i> | 82.9 | 81.5 | 85.2 | 80.3 | 87.9 | 83.6 | |

| IRA (Oven Dried Method) | 6 | 7 | 8 | 9 | 10 | Average | Test Date |
|--------------------------------|-----|------|------|------|------|---------|-----------|
| <i>g/min/30 in²</i> | 9.3 | 15.5 | 12.9 | 14.1 | 14.9 | 13.3 | 8/11/17 |

| Efflorescence | 11 | 12 | 13 | 14 | 15 | Test Date |
|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | 7/11/17 |

The brick represented by the test results shown here comply with the physical property requirements of the standards listed below:

ASTM C 216-17 Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)
Grade: SW, MW

James Henning, P.E. – Director of Testing Services

D&A laboratory practices for the reported tests are in accordance with ASTM C1093-13AE1 Practice for Accreditation of Testing Agencies for Masonry