



TEST REPORT

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Results of Tests on brick Conducted in accordance with ASTM C 67-16 Standard Test Methods for Sampling and

Testing Brick and Structural Clay Tile

07/25/2017

| | | | | |
|--------|--|----------------|--------------------------|------------------------|
| Name: | The Belden Brick Company P. O. Box 430 Sugarcreek , OH 44681 | Plant: | The Belden Brick Company | *Temperature: 60 - 90F |
| Phone: | 330-456-0031 | Report Number: | 7664-16935 | *Humidity: 30% - 70% |
| Fax: | 330-456-2694 | Received Date: | 07/07/2017 | |
| | | Sampled Date: | 07/07/2017 | |
| | | Lot: | | |
| | | Product Code: | | |

Sample Description: **PLT 2, SHALE/FIRECLAY NO ADDITIVE (PAVER, 2-3/4)**

| | | | | | | | Test Date |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| Absorption | | 1 | 2 | 3 | 4 | 5 | Average |
| 24 Hour Submersion in Cold Water (%) | | 3.27 | 3.31 | 3.39 | 3.26 | 3.40 | 3.33 |
| 5 Hour Submersion in Boiling Water (%) | | 4.30 | 4.37 | 4.33 | 4.22 | 4.44 | 4.33 |
| Saturation Coefficient (Ratio of 24H to 5H) | | 0.76 | 0.76 | 0.78 | 0.77 | 0.77 | 0.77 |
| Compressive Strength | | 1 | 2 | 3 | 4 | 5 | Average |
| | <i>psi</i> | 17,906 | 21,930 | 19,578 | 19,185 | 22,398 | 20,199 |
| | <i>MPa</i> | 123.5 | 151.2 | 135.0 | 132.3 | 154.4 | 139.3 |
| Breaking Load | | 6 | 7 | 8 | 9 | 10 | Average |
| | <i>(lb/in.)</i> | 1,984 | 1,762 | 1,860 | 2,049 | 1,666 | 1,864 |
| Efflorescence | | 11 | 12 | 13 | 14 | 15 | |
| | | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | 07/25/2017 |
| Abrasion Resistance | | 1 | 2 | 3 | 4 | 5 | Average |
| | | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

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

ASTM C 1272 - 16b Standard Specification for Heavy Vehicular Paving Brick
Type: R, F

ASTM C 902 - 15 Standard Specification for Pedestrian and Light Traffic Paving Brick
Class: SX, MX, NX

Type: I, II, III

Michael Walker, Quality Manager

**The temperature and humidity of the Bishop Materials Laboratory is constantly kept between 60 -90F, and 30-70% RH
The results shown above apply only to the samples tested, which are provided by the customer.
This test report shall not be reproduced except in full, without written approval of the laboratory.*