

Results of Tests on brick Conducted in accordance with C67/C67M - 23a Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile

02/27/2024

| | | | |
|----------------|--|----------------|------------|
| Name: | The Belden Brick Company P. O. Box 430 Sugar creek, OH 44681 | Plant: | Sugarcreek |
| Phone: | 330-456-0031 | Sampled Date: | 2/2/2024 |
| Fax: | 330-456-2694 | Received Date: | 2/2/2024 |
| Report Number: | 12451-30884 | Fired Date: | 2/2/2024 |
| | | Product Code: | |
| | | Lot Number: | |

Description: **PLT 4, ALL SHALE FINE GRIND NO ADDITIVE**

| Absorption | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|--------------------------|------|------|------|------|------|---------|-----------|
| 24 Hour Cold Water (%) | 1.1 | 1.0 | 2.2 | 1.3 | 1.3 | 1.4 | 2/14/2024 |
| 5 Hour Boiling Water (%) | 1.5 | 1.1 | 4.4 | 2.3 | 2.2 | 2.3 | |
| Saturation Coefficient | 0.74 | 0.85 | 0.51 | 0.58 | 0.59 | 0.65 | |

| Compressive Strength | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|----------------------|--------|--------|--------|--------|--------|---------|-----------|
| psi | 27,420 | 27,950 | 27,500 | 30,970 | 28,290 | 28,430 | 2/19/2024 |

| IRA (Oven Dried Method) | 6 | 7 | 8 | 9 | 10 | Average | Test Date |
|---------------------------|-----|-----|-----|-----|-----|---------|-----------|
| g/min/30 in. ² | 1.8 | 1.8 | 3.0 | 1.9 | 1.9 | 2.1 | 2/12/2024 |

| Efflorescence | 11 | 12 | 13 | 14 | 15 | Test Date |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Efflorescence Detection | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | 2/22/2024 |

| Void Area | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Average | Test Date |
|---------------|----|----|----|----|----|----|----|----|----|----|---------|-----------|
| Void Area (%) | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 2/12/2024 |

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

ASTM C216 - 23 Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)
Grade: SW, MW

Katherine Hill
Katherine Hill, 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.*