



TEST REPORT

100 Clemson Research Blvd.
Anderson, SC 29625
(864) 656-1094
Fax: (864) 656-1095
www.brickandtile.org

Results of Tests on brick Conducted in accordance with ASTM C 67-18 Standard Test Methods for Sampling and

Testing Brick and Structural Clay Tile

06/14/2019

| | | | | |
|--------|---|----------------|-------------------|------------------------|
| Name: | Yankee Hill Brick 3705 South Coddington Avenue Lincoln , NE 68522 | Plant: | Yankee Hill Brick | *Temperature: 60 - 90F |
| Phone: | 402-770-7720 | Report Number: | 8884-20888 | *Humidity: 30% - 70% |
| Fax: | | Received Date: | 05/31/2019 | |
| | | Sampled Date: | 05/31/2019 | |
| | | Lot: | | |
| | | Product Code: | | |

Sample Description: **Flash Tan, Antique 111, Antique 212, Antique 505, Canyon Red, Clinker, French Colonial, Light Smoke Bronze, Medium Smoke Bronze**

| | | | | | | | Test Date | |
|---|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|------------|
| Absorption | | 1 | 2 | 3 | 4 | 5 | Average | |
| 24 Hour Submersion in Cold Water (%) | | 4.19 | 3.37 | 3.37 | 2.77 | 3.74 | 3.49 | |
| 5 Hour Submersion in Boiling Water (%) | | 6.45 | 5.70 | 5.60 | 5.19 | 6.13 | 5.81 | |
| Saturation Coefficient (Ratio of 24H to 5H) | | 0.65 | 0.59 | 0.60 | 0.53 | 0.61 | 0.60 | |
| Compressive Strength | | 1 | 2 | 3 | 4 | 5 | Average | |
| | <i>psi</i> | 14,901 | 14,538 | 15,779 | 14,909 | 12,424 | 14,510 | |
| | <i>MPa</i> | 102.7 | 100.2 | 108.8 | 102.8 | 85.7 | 100.0 | |
| Efflorescence | | 11 | 12 | 13 | 14 | 15 | | |
| | | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | 06/12/2019 | |
| IRA (Oven Dried Method) | | 6 | 7 | 8 | 9 | 10 | Average | |
| | <i>g/min/30 in.²</i> | 2.2 | 2.2 | 3.6 | 3.3 | 3.0 | 2.9 | |
| Average % Void | | 21.5 | | | | | | 06/04/2019 |

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

ASTM C 216 - 17a Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale)

Grade: SW, MW

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.*



TEST REPORT

100 Clemson Research Blvd.
Anderson, SC 29625
(864) 656-1094
Fax: (864) 656-1095
www.brickandtile.org

Results of Tests on brick Conducted in accordance with ASTM C 67-18 Standard Test Methods for Sampling and

Testing Brick and Structural Clay Tile

12/02/2019

| | | | | |
|--------|---|----------------|-------------------|------------------------|
| Name: | Yankee Hill Brick 3705 South Coddington Avenue Lincoln , NE 68522 | Plant: | Yankee Hill Brick | *Temperature: 60 - 90F |
| Phone: | 402-770-7720 | Report Number: | 9232-22015 | *Humidity: 30% - 70% |
| Fax: | | Received Date: | 11/12/2019 | |
| | | Sampled Date: | 11/12/2019 | |
| | | Lot: | | |
| | | Product Code: | | |

Sample Description: **Medium Red**

| | | | | | | | Test Date |
|---|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Absorption | | 1 | 2 | 3 | 4 | 5 | Average |
| 24 Hour Submersion in Cold Water (%) | | 5.03 | 4.97 | 4.62 | 5.34 | 4.66 | 4.93 11/14/2019 |
| 5 Hour Submersion in Boiling Water (%) | | 7.54 | 7.38 | 7.01 | 7.67 | 7.01 | 7.32 |
| Saturation Coefficient (Ratio of 24H to 5H) | | 0.67 | 0.67 | 0.66 | 0.70 | 0.66 | 0.67 |
| Compressive Strength | | 1 | 2 | 3 | 4 | 5 | Average |
| | <i>psi</i> | 16,455 | 8,430 | 14,089 | 14,928 | 9,011 | 12,582 11/14/2019 |
| | <i>MPa</i> | 113.5 | 58.1 | 97.1 | 102.9 | 62.1 | 86.8 |
| Efflorescence | | 11 | 12 | 13 | 14 | 15 | |
| | | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | 11/22/2019 |
| IRA (Oven Dried Method) | | 6 | 7 | 8 | 9 | 10 | Average |
| | <i>g/min/30 in.²</i> | 9.4 | 10.3 | 8.5 | 9.3 | 9.6 | 9.4 11/20/2019 |
| Average % Void | | 20.8 | | | | | 11/20/2019 |

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

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

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.*

TEST REPORT

100 Clemson Research Blvd.
Anderson, SC 29625
(864) 656-1094
Fax: (864) 656-1095
www.brickandtile.org



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

08/25/2023

| | | | |
|---------------------------------------|--|----------------|-------------------|
| Name: | Yankee Hill Brick 3705 South Coddington Avenue Lincoln, NE 68522 | Plant: | Yankee Hill Brick |
| Phone: | 402-770-7720 | Sampled Date: | 8/8/2023 |
| Report Number: | 11942-29731 | Received Date: | 8/8/2023 |
| | | Fired Date: | 8/8/2023 |
| | | Product Code: | |
| | | Lot Number: | |
| Description: Dark Red / Maroon | | | |

| Absorption | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|--------------------------|------|------|------|------|------|---------|-----------|
| 24 Hour Cold Water (%) | 2.6 | 2.6 | 2.6 | 2.9 | 2.5 | 2.6 | 8/10/2023 |
| 5 Hour Boiling Water (%) | 4.4 | 4.6 | 4.5 | 4.6 | 4.6 | 4.5 | |
| Saturation Coefficient | 0.60 | 0.56 | 0.58 | 0.63 | 0.56 | 0.59 | |

| Compressive Strength | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|----------------------|--------|--------|--------|--------|--------|---------|-----------|
| psi | 15,440 | 18,050 | 14,890 | 14,510 | 15,670 | 15,710 | 8/10/2023 |

| IRA (Oven Dried Method) | 6 | 7 | 8 | 9 | 10 | Average | Test Date |
|---------------------------|-----|-----|-----|-----|-----|---------|-----------|
| g/min/30 in. ² | 2.8 | 3.3 | 3.2 | 2.7 | 2.5 | 2.9 | 8/21/2023 |

| Efflorescence | 11 | 12 | 13 | 14 | 15 | Test Date |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Efflorescence Detection | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | 8/21/2023 |

| Void Area | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|---------------|----|----|----|----|----|---------|-----------|
| Void Area (%) | 21 | 21 | 21 | 21 | 21 | 21 | 8/18/2023 |

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

ASTM C216 - 22 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.*

TEST REPORT

100 Clemson Research Blvd.
Anderson, SC 29625
(864) 656-1094
Fax: (864) 656-1095
www.brickandtile.org



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

07/31/2023

| | | | |
|----------------|--|----------------|-------------------|
| Name: | Yankee Hill Brick 3705 South Coddington Avenue Lincoln, NE 68522 | Plant: | Yankee Hill Brick |
| Phone: | 402-770-7720 | Sampled Date: | 7/7/2023 |
| Report Number: | 11872-29547 | Received Date: | 7/7/2023 |
| Description: | Light Red | Fired Date: | 7/7/2023 |
| | | Product Code: | |
| | | Lot Number: | BB158 |

| Absorption | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|--------------------------|------|------|------|------|------|---------|-----------|
| 24 Hour Cold Water (%) | 3.7 | 3.6 | 3.6 | 3.6 | 3.7 | 3.6 | 7/11/2023 |
| 5 Hour Boiling Water (%) | 5.4 | 5.3 | 5.3 | 5.2 | 5.3 | 5.3 | |
| Saturation Coefficient | 0.68 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | |

| Compressive Strength | 1 | 2 | 3 | 4 | 5 | Average | Test Date |
|----------------------|--------|--------|--------|--------|--------|---------|-----------|
| psi | 16,020 | 12,700 | 15,490 | 14,350 | 13,680 | 14,450 | 7/17/2023 |

| IRA (Oven Dried Method) | 6 | 7 | 8 | 9 | 10 | Average | Test Date |
|---------------------------|-----|-----|-----|-----|-----|---------|-----------|
| g/min/30 in. ² | 4.2 | 3.8 | 4.4 | 3.8 | 4.2 | 4.1 | 7/18/2023 |

| Efflorescence | 11 | 12 | 13 | 14 | 15 | Test Date |
|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|
| Efflorescence Detection | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | Not Effloresced | 7/27/2023 |

| Void Area | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Average | Test Date |
|---------------|----|----|----|----|----|----|----|----|----|----|---------|-----------|
| Void Area (%) | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 7/17/2023 |

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

ASTM C216 - 22 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.*