

Crafting the right floor tile for the **craft brewing industry.**

Craft brewers pride themselves on creating unique and outstanding beers that set the mark for flavor and character. And from holding tanks to filtration systems, craft brewers know the equipment they use has to be right. Not only are they most concerned about the quality of the product, but also the appearance of their brewery. That's why so many brewers choose Metropolitan Ceramics quarry tile for their flooring. They know kiln fired Metropolitan quarry tile will provide generations of quality, slip resisting, service. They also know the natural earth tone colors will fit right in with their brewery's design. Tastes may change with the season, but a Metropolitan Ceramics floor will stand the test of time.



310 Mayflower red shown above and to right at Founders Brewery in Grand Rapids, Michigan

FEATURES & Benefits

- Use Indoors and Out in any Climate.
- Slip Resisting Surface.
- Extreme Durability for Heavy Traffic.
- Will not Bubble-Chip-Melt.
- Resists Grease-Bacteria-Dirty Water.
- Unglazed Surface Won't Show Wear.
- Can be Used Vertically.
- Resists Chipping and Abrasion.
- Economical.



GREEN at a Glance



VERIFIED BY
SCS Global Services

- ✓ Abundant natural resource.
- ✓ Little waste in production.
- ✓ No volatile organic compounds.
- ✓ Offering decades of performance.
- ✓ Safe to discard or repurpose.



Sizes, Colors, Textures

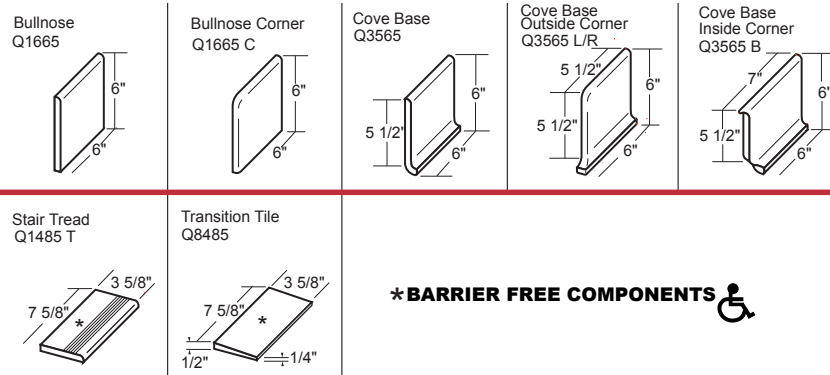
Sizes options include 4" x 8", 4" x 12", 6" x 9", 8" x 8" and 6" x 6". Many size options are nominal (for example, the 4" x 8" is actually 3 5/8" x 7 5/8") to allow for a grout joint when designing patterns. The most popular size 6" x 6" is (actual size). Tile thickness is 1/2". For specific applications, some products are available by special order in 3/8" and 3/4" thickness. Different size options are available in each product line. See the Metropolitan Ceramics website for complete details.

The grout joint recommended in most instances is 3/8". A 1/4" joint may sometimes be used in some instances, see web site for details. Metropolitan quarry tile is available in a variety of natural earth tones. Some products are reduction fired in the kilns to produce a random shade variation. Many colors are manufactured with little to no shade variation- for a 'single tone' appearance.

A number of products are available with texture for added appeal and to increase slip resisting properties. Details on all products manufactured by Metropolitan Ceramics are available on the Metropolitan Ceramics' website - metroceramics.com.

Trim Pieces

Metropolitan Ceramics offers a number of trim pieces. Shown below are some of the most popular trim options. Please see the Metropolitan web site - metroceramics.com for a complete listing of trim and availability.



Test Results

| Specification | Test | Standard | Result |
|------------------------|---------------------------|---|---|
| Abrasion Resistance | ASTM C1243 | Maximum value of 275 mm ³ | Metropolitan tests at < 275 mm ³ |
| Absorption 5-hour boil | ASTM C373 | Maximum 5% | Metropolitan tests at 3% maximum and qualifies as vitreous. |
| Breaking Strength | ASTM C648 | Average ≥ 275 lbf. | Metropolitan 1/2" thick tests at 800 lbf. or better. Metropolitan 3/8" thick tests at 400 lbf. or better. |
| Thickness | ASTM C499 | Max. range of .050" | Metropolitan meets the standard. |
| Nominal Size | ASTM C499 | The facial dimension of each tile in the sample shall not vary more than ±2.00% from the nominal dimension. | Metropolitan meets the standard. |
| Freeze/ Thaw | ASTM C1026 | Observations after 300 cycles. No visible damage. | Metropolitan meets the standard. |
| Shear Bond Strength | ASTM C482 | 50 P.S.I. or better | Metropolitan exceeds the standard. |
| DCOF Acu Test (wet) | ANSI A326.3-2017 BOT 3000 | Threshold of 0.42 | At time of manufacture, Metropolitan QUARRYBASICS® XA Abrasive tests at ≥0.70. All other Metropolitan products exceed 0.60. |
| Warpage | ASTM C485 | Min. -1.5% Max. 1.5% along any edge. Min -1.0% Max 1.0% on either diagonal. | Metropolitan meets the standard. |
| Wedging | ASTM C502 | Min. -1.0% Max. 1.0% | Metropolitan meets the standard. |
| Chemical Resistance | ASTM C650 | As Reported | Class A Classification |
| Stain Resistance | ASTM C1378 | As Reported | Metropolitan meets the standard. |
| Scratch Hardness | MOHS | No Industry Standard | 7 |

Added Slip Resistance



QUARRYBASICS® XA Abrasive

- Silicon Carbide Embedded Surface
- Through-the-Body Metallic Additive



METRO TREAD®

Raised Tread Design - installed in a checkerboard pattern.

Metro Tread has the added benefit of ease of cleaning. Will not trap debris. Meets the strictest health department regulations - California - without the need for additional drains.

Environmental

For more information on Metropolitan Ceramics and LEED V4, please visit our web site - metroceramics.com.

Specifications

By ANSI Standard Specification A137.1 Metropolitan Ceramics' unglazed quarry tile is classified as quarry tile, however, the exceptional technical characteristics noted allow them to be used in virtually any application suitable for ceramic tile. Metropolitan Ceramics' unglazed tile meets both the ASTM standards, the ANSI A137.1 specification for quarry tile, and Metropolitan internal standards as listed.

Cleaning and Maintenance

Metropolitan quarry tile is easy to maintain and requires only neutral cleaners and no special power washing!

For complete specification and cleaning/maintenance information, including download versions, please visit our web site - metroceramics.com

Contact

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C E R A M I C S

Ironrock Since 1866