

Porcelanite/Mannington Ceramic Tile

Marketing Services Department

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Products manufactured and marketed under the Mannington and Porcelanite brand names.

MATTE GLAZE SERIES WITH IMAGES BORDER

Suitable for interior wall applications, the Matte Glaze Series is available in 11 colors in 4-3/8" x 4-3/8" with a variety of surface and conventional trim shapes. Eleven colors are also available in 6" x 6" field. Enhance your designs by using the 4-3/8" x 4-3/8" Images Wall Tile for accent or contrast.

DESCRIPTION: Glazed. Matte finish. Smooth surface in solid colors. Cushioned edge with self-spacing lugs.

DURABILITY/APPLICATION: Durability Rating D: Residential interior finishes (excluding kitchen and foyer floors).

SIZES: Nominal thickness is 5/16".

4-3/8" x 4-3/8", 6" x 6"*.

*(not available in all colors.)

COLORS: Matte Glaze 11, Images 10

TRIM: Trims available for surface and conventional installation.

MATTE GLAZE SERIES WITH IMAGES BORDER

Mannington Ceramic Tile's Matte Glaze series of soft colors with matte finish is suitable for commercial interior vertical surfaces and residential interior finishes (excluding kitchen and foyer floors). Available in 11 solid colors in 4-3/8" x 4-3/8" field, colors are also available in 6" x 6" field. Trim pieces are available for surface and conventional installation.

Mannington Ceramic Tile's Images Series features 10 vivid colors in a 4-3/8" x 4-3/8" field. This series can be used as an accent with one of our other series, or by itself. Trim pieces are available for surface and conventional installation.

MANNINGTON CERAMIC TILE GLAZED WALL TILE

PRODUCT TEST DATA:

Test # & Identification ASTM: C499 Thickness

Standard: 0.31" Max Range

MCT Test Results: Less than 0.21"

Test # & Identification ASTM: C499 Facial Dimension
Standard: 0.60% Max Range
MCT Test Results: Less than 0.20%

Test # & Identification ASTM: C485 Warpage (Convex)
Standard: 0.40% Max
MCT Test Results: Less than 0.16%

Test # & Identification ASTM: C485 Warpage (Concave)
Standard: 0.30% Max
MCT Test Results: 0%

Test # & Identification ASTM: C502 Wedging
Standard: 0.60% Max
MCT Test Results: Less than 0.12%

Test # & Identification ASTM: C609 Color Uniformity
Standard: 3.0 Judds Max
MCT Test Results: Less than 0.31 Judds

Test # & Identification ASTM: C373 Water Absorption
Standard: 20% Max
MCT Test Results: 14.4% Average

Test # & Identification ASTM: C424 Crazeing
Standard: None Visible
MCT Test Results: None Visible

Test # & Identification ASTM: C484 Thermal Shock
Standard: No Disintegration
MCT Test Results: No Disintegration

Test # & Identification ASTM: C482 Bond Strength
Standard: 50 PSI Minimum
MCT Test Results: 67 PSI+

Test # & Identification ASTM: C648 Break Strength
Standard: 90 LBS Minimum
MCT Test Results: 130 LBS Average

Test # & Identification ASTM: C650 Acid and Base Resistance
Standard: No Visible Change
MCT Test Results: No Visible Change*

* Crystal Only

The Standard Specification Data (above) is verification that Mannington Ceramic Tile meets or exceeds the American National Standard Institute specifications as required in ANSI/137.1. Testing was performed by the Tile Council of America, Smith & Emery, Pittsburgh Testing Lab, and Law Engineering.

Master Grade Certificates can be furnished for qualified shipments upon request.

Architectural Specifications

Part 1 - General

A. Description

1. Work included: Provide all tile work complete in place as indicated on drawings, specified herein, or otherwise needed for a complete proper installation of the work in this section.
2. Related Work Specified Elsewhere
 - a. Lathing & Cement Scratch Coat - Section _____
 - b. Grab rails in tub areas - Section _____
 - c. Waterproofing - Section _____
 - d. Sealant for movement joints - Section _____

B. Submittals

1. When applicable, furnish Master Grade Certificate signed by both Porcelanite/Mannington Tile and the tile subcontractor.
2. Submit one sample panel approximately 12" square for each color, pattern and type of tile intended to be used.
3. Porcelanite/Mannington Tile shall furnish Certificates of Compliance stating conformance with all requirements of American National Standards Institute Specification ANSI A137.1-1988.

C. Product Handling

1. Deliver all products in original cartons with all labels intact.
2. Store tile in a dry, covered area.

D. Environmental Conditions

1. Maintain a temperature of at least 50°F during installation and for 7 to 10 days after completion.

E. Stock Requirements

1. Supply an additional 2% to 3% of each tile color and size for owner's use for repairs or replacement.

F. Quality Assurance

1. Contractors shall follow guidelines for ceramic tile installation as outlined in the Tile Council of America's (TCA) current Handbook for Ceramic Tile Installation.
2. Provide materials obtained from one source for each type of tile, grout and setting materials.
3. Use all products in strict accordance with the recommendations and directions of the manufacturer.
4. Use products manufactured or supplied by P & M Tile per approved samples and as approved by the architect.

G. Substitutions

1. Where no brands or manufacturers are listed, only use materials that meet product specifications.
2. Suggest substitution of products only in writing and deliver samples to architect at least 21

- days prior to receipt of bid. State any value change in the substitution.
3. Notify all bidders at least 14 days prior to date of bid. Reference any change of products.

Part 2 - Products

A. Ceramic Tile

1. Furnish Standard Grade complying with ANSI A137.1-1988 as supplied by Porcelanite/Mannington Tile, Inc., or approved equivalent.
2. Sizes, colors, textures and patterns as selected by the architect. See drawings and schedules.
3. Provide trim of the same color, size and finish to match field tile.
4. Accessories - furnish vitreous china accessories to coordinate with the color and finish of adjacent wall tile. See drawings and schedules.

B. Ceramic Mosaics

1. Furnish Standard Grade complying with ANSI A137.1-1988 as supplied by Porcelanite/Mannington Tile, Inc., or approved equivalent.
2. Sizes, colors, textures and patterns as selected by the architect. See drawings and schedules.
3. Provide trim of the same color, size and finish to match field tile.
4. Use dot-mounted sheets.

C. Setting Materials

1. Portland Cement Mortar Installation Materials - provide materials to comply with ANSI A 108.1 as required for the installation method designated.
2. Dry-Set Portland Cement - ANSI 118.1
3. Latex Portland Cement - ANSI 118.4
4. Organic Adhesives - ANSI 136.1
5. Epoxy - ANSI A 118.3
6. Metal Lath
 - Interior - ASTM C-847
 - Exterior - ASTM C-933
7. Membrane - 4 mil polyethylene film, ASTM C-171

D. Grouting Materials

1. Ceramic Tile
 - a. Walls - Commercial Portland Cement Type Grout. See specifications for colors.
 - b. Floors - Commercial Cement Base Sanded Floor Grout. See specifications for colors.
2. Ceramic Mosaics
 - a. Walls and floors - Commercial Cement Base Sanded Floor Grout. See specifications for colors.

Part 3 - Installation

A. Acceptability of Surfaces

1. Assure surfaces to be tiled are smooth and level at the required finish elevation and fall within the following maximum variations:

Walls

Dry-Set Mortar: 1/8" in 8 ft.

Epoxy: 1/8" in 8 ft.

Organic Adhesive: 1/8" in 8 ft.

Floors

Dry-Set Mortar: 1/8" in 10 ft.

Epoxy: 1/8" in 10 ft.

Organic Adhesive: 1/16" in 3 ft.

2. Report all unacceptable surfaces to the architect and do not tile such surfaces until they meet the above requirements.
3. Before tiling, be sure surfaces are free of curing membranes, oil, grease, wax and dust.

B. Layout

1. Determine the locations of all movement joints prior to beginning tile work.
2. Determine the location of all porcelain accessories before starting tile work.
3. Minimize tile cuts that are less than one-half tile in size.
4. Locate tile cuts in both walls and floors so as not to be obvious.
5. Layout tile wainscots to next full tile beyond dimensions shown.
6. Align all wall joints to give straight uniform grout lines, plumb and level.
7. Align all floor joints to give straight uniform grout lines, parallel with walls.

C. Setting Methods

1. Ceramic Tile (Note: methods shown here are examples only. Specify one that is required).
 - a. Walls
 - Masonry or concrete: ANSI 108.1, Reference TCA Method W211-86, Cement Mortar Board.
 - Gypsum Board: ANSI 108.4, Reference TCA Method.
 - Wood Studs or Furring: ANSI 108.1, Reference TCA Method W231-86, Cement Mortar.
 - b. Floors
 - Dimensionally Stable Concrete Subfloor: ANSI 108.4. Reference TCA Method F116.86, Organic Adhesive or Epoxy Adhesive.
 - Non-Dimensionally Stable Concrete Subfloor: ANSI 108.5. Reference TCA Method F113-86, Dry-Set or Latex-Portland Cement Mortar.
 - Wood Subfloor: ANSI 108.1 Reference TCA Method F141-86, Cement Mortar.
1. Mosaic Tile (Note: methods shown here are examples only. Specify one that is required.)
 - a. Walls
 - Dimensionally Stable Masonry Walls: ANSI 108.5, Ref. TCA Meth. W206-86, Dry-Set Mortar
 - b. Floors
 - Dimensional Stable Concrete Subfloor: ANSI 108.1 Reference TCA Method F112-86, Cement Mortar Bonded.
 - Non-Dimensionally Stable Concrete Subfloor: ANSI 108.1 Reference TCA Method F111-86, Cement Mortar Cleavage Membrane.
 - Wood Subfloor: ANSI 108.1 Reference TCA Method F141.86, Cement Mortar.

D. Grouting Methods

1. Follow grout manufacturer's recommendations as to grouting procedures and precautions.
2. Remove all grout haze, observing grout manufacturer's recommendations as to use of acid and chemical cleaners.
3. Rinse tile thoroughly with clean water before and after using chemical cleaners.
4. Use soft cloth to polish completed tile work.

E. Curing Protection

1. Cover all tile floor with heavy-duty, non-staining construction paper, masked in place.
2. Prohibit all foot and wheel traffic from using newly tiled floors for at least 3 days, preferably 7 days.
3. Cover tile with wood planks in areas where traffic is unavoidable.