

Montgomery County Public Schools Facilities Guide

DIVISION 9 – FINISHES

SECTION 09310

TILE

PART 1 GENERAL

1.01 GUIDE INCLUDES

- A. Unglazed ceramic flooring
- B. Glazed wall tile
- C. Quarry tile flooring
- D. Marble thresholds
- E. Slate window sills

CERAMIC TILE IS NOT TO BE USED ON EXTERIOR UNLESS APPROVED BY MCPS DIVISION OF CONSTRUCTION.

1.02 QUALITY ASSURANCE

- A. Comply with applicable ANSI & ASTM & TCNA standards for materials and installation.
- B. Certification of Master Grade for each type and shipment of tile signed by manufacturer and installer shall be required.
- C. Provide 5 year extended warranty to cover workmanship and material defects. Failure of tile to adhere to wall or floor shall be repaired at not cost to Owner.

1.03 SUBMITTALS

- A. Submit mortar, mastic and grout manufacturer data and MSDS to MCPS Division of Safety & Environmental Health Unit for review and approval.
- B. Submit manufacturer's certification that field-applied adhesives installed in building interior meet testing and product requirements of California Department of Health Services Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.
- C. Submit location of manufacture and extraction/ recovery of primary raw materials.
- D. Submit recycled-content information, designating percentages of post-consumer and pre-consumer recycled materials.

1.04 EXTRA MATERIALS

- A. Provide one box of tile for each type and color.
- B. Extra material to be given to MCPS Maintenance Division at contract closeout.

PART 2 PRODUCTS

2.01 MANUFACTURERS (SUBJECT TO COMPLIANCE WITH REQUIREMENTS, GIVE PREFERENCE TO PRODUCTS MANUFACTURED WITHIN A 500-MILE RADIUS OF THE PROJECT SITE):

- A. Unglazed and Glazed Ceramic Tile:
 - 1. American Olean Tile Co., Division of Dal-Tile.
 - 2. United States Ceramic Tile Co.

3. Dal-Tile
4. Summitville Tile, Inc.
- B. Quarry Tile:
 1. American Olean/Dal-Tile
 2. Summitville Tile, Inc.
 3. Metropolitan Ceramics
- C. Mortars, Mastics & Grouts:
 1. Atlas Minerals and Chemical Co.
 2. Custom Building Products
 3. Bostik
 4. Laticrete
 5. Mapei
 6. Boiardi Products, a QEP Company
- D. Comply with ANSI specifications for types and grades of ceramic and quarry tile to be used for each application. Architect to recommend sizes and then obtain approval by MCPS Division of Construction.

2.02 MARBLE THRESHOLDS

- A. White bonded marble complying with MIA Group "A" requirements for soundness. Sizes to be as determined by Architect.

2.03 SLATE WINDOW SILLS

- A. Slate window sills shall be natural black structural slate, sand rubbed finish on all exposed surfaces. Sizes to be as determined by the architect and joints only at mullions. Joints honed to hairline fit. Ribbon stock.

2.04 INSTALLATION- ADHESIVES

- A. Adhesives used in tile installation shall meet testing and product requirements of California Department of Health Services *Standard Practice for The Testing Of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.
 1. At minimum, products need to comply with VOC limits specified in LEED-NC for Schools if alternatives tested to CA protocol are not available.

2.05 GIVE PREFERENCE TO TILE PRODUCTS MADE WITH MINIMUM OF 40 PERCENT TOTAL RECYCLED CONTENT:

- A. Products include:
 1. Terra Classic and Terra Traffic, Terra Green Ceramics, Richmond, IN.
 2. Eco-Cycle and Eco-Cycle Stone, Crossville Ceramics, TN.
 3. Debris Series Ceramic Tile, Fireclay Tile.
 4. Eco-Tile, Quarry Tile Company.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Conform to Applicable Standards. Do not bridge building expansion joints with tile.
- B. Install tile products in a manner consistent with Division 1 Indoor Air Quality Management Requirements.

3.02 FLOORS AND BASE:

- A. Slab on grade areas shall be recessed 1-1/2 inches for quarry tile setting bed installation.
- B. Slabs on upper levels shall be smooth to receive thin set application.
- C. Areas where ceramic tile will be considered:

1. Toilets
 2. Showers and Drying Areas
 3. Janitor's closets
- D. Areas where quarry tile will be considered:
1. Kitchen and support spaces (non slip)
 - a. (Less abrasive in elementary and non work areas)
 2. Lobbies (non slip)
- E. Base shall be covered.

3.03 WALLS

- A. Ceramic tile shall be applied by thin set method.
- B. Areas where ceramic tile walls are to be considered;
 1. Toilets
 - a. wet wall only in base bid
 - b. expanded scope by Add alternate.
 2. Showers and drying areas.
 3. Kitchen and support spaces
 4. Other areas recommended by Architect and approved by MCPS Division of Construction.

3.04 CLEANING

- A. Floors, base and walls shall be cleaned and free of foreign materials in accordance with manufacturer's recommendations. Do not use acid.

3.05 PROTECTION

- A. Protect finished floors with craft paper or other heavy covering during construction period.
- B. Prohibit foot and wheel traffic for 3 days after floor is set and again after floor has been grouted.

3.06 WASTE MANAGEMENT

- A. Recycle waste tile materials and packaging in accordance with Section 01524, Construction Waste Management requirements.

END OF SECTION