

SECTION 09 30 00 - TILING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Glazed ceramic tile.
2. Crack-suppression membrane for thin-set tile installations (as required).
3. Waterproofing membrane.
4. Metal transition strips installed as part of tile installations.
5. Sanitary PVC Cove Molding.
6. **KROGER NATIONAL ACCOUNT AGREEMENT**
 - a. The following items are to be provided by the Contractor and purchased under a national account agreement with the Kroger Co.:
 - 1) **Material:** Tile as identified in Division 01 Section "Product Finishes and Colors" as "National Account Agreement Item."
7. Installation of all tile and accessories by Contractor.
8. Additional items supplied and installed by Contractor not part of Kroger National Account Agreement:
 - a. Crack-suppression membrane for thin-set tile installations (as required).
 - b. Waterproofing membrane.
 - c. Metal transition strips installed as part of tile installations.
 - d. Sanitary PVC Cove Molding.

1.2 SUBMITTALS

- A. Product Data: For each product indicated.
- B. Samples: Each type, composition, color, and finish of tile.

1.3 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish one full, unopened box of each type, composition, color, pattern, and size indicated that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

PART 2 - PRODUCTS

2.1 SUPPLIER

A. Supplier:

1. Louisville Tile Distributors, Inc.
2. Pantheon Floor Solutions, Inc.
3. Daltile.

B. Refer to Section 01 64 00 "Vendor Contact List" for contact information.

C. No substitutions allowed.

D. Specify store number and address when ordering.

2.2 TILE PRODUCTS

A. ANSI Ceramic Tile Standard: Provide Standard grade tile that complies with ANSI A137.1, "Specifications for Ceramic Tile," for types, compositions, and other characteristics indicated.

B. Glazed Ceramic Tile:

1. Basis-of-Design Product: As specified in Division 01 Sections "Décor Interior Finishes and Colors."
2. Size: As specified in Division 01 Section "Décor Interior Finishes and Colors."
3. Thickness: Manufacturer's standard.

C. Tile Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide shapes as follows, selected from manufacturer's standard shapes:

1. External Corners and Edges: Bullnose.
2. Internal Corners: Field-butt square corners. For coved base and cap use angle pieces designed to fit with stretcher shapes.

2.3 ACCESSORY MATERIALS

A. Crack Isolation Membrane: Manufacturer's standard product selected from the following that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated:

1. Fabric-Reinforced, Modified-Bituminous Sheet Product: SBS-modified-bituminous sheet with woven reinforcement facing, 0.040-inch (1.01-mm) nominal thickness.

a. Products:

- 1) National Applied Construction Products, Inc.; Strataflex.
- 2) Protecto Wrap Company; AFM.

2. Latex-Portland Cement Product: Flexible mortar with acrylic-latex additive.

a. Products:

- 1) LATICRETE International Inc.; 125 Tri Max.
- 2) MAPEI Corporation; Mapelastic 315.
- 3) TEC/H.B. Fuller Construction Products, Inc.; Triple Flex.

B. Waterproofing Membrane: Polyethylene sheet faced on both sides with fleece or fabric webbing; 0.008-inch (0.203-mm) minimum nominal thickness.

1. Products:

- a. Schluter Systems L.P.; KERDI.
- b. Noble Company; Nobleseal TS.

2. Preformed Corners: Manufacturer's standard inside and outside preformed corners matching waterproofing membrane.

2.4 SETTING AND GROUTING MATERIALS

A. Manufacturers:

1. LATICRETE International Inc.
2. MAPEI Corporation
3. TEC/H.B. Fuller Construction Products Inc.

B. Basis-of-Design Products: As specified in Division 01 Section "Décor Interior Finishes and Colors."

C. Mortar Materials

1. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4.

D. Grout Materials for Floors

1. Chemical-Resistant, Water-Cleanable, Epoxy Grout: ANSI A118.3, 100 percent solids epoxy, stainless, with a VOC content of 65 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

a. Products:

- 1) LATICRETE International Inc.; Spectralock Pro
- 2) MAPEI Corporation; Kerapoxy CQ.
- 3) TEC/H.B. Fuller Construction Products Inc.; AccuColor EFX Epoxy Special Effects.

E. Grout Materials for Walls

1. Polymer-Modified Tile Grout: ANSI A118.7.

a. Products:

- 1) LATICRETE International Inc.; PermaColor
- 2) MAPEI Corp.; Ultracolor Plus.
- 3) H.B. Fuller Construction Products Inc.; TEC Power Grout.

F. Grout Color: As specified in Division 01 Sections "Décor Interior Finishes and Colors."

2.5 MISCELLANEOUS MATERIALS

A. Elastomeric Sealants: Elastomeric sealants of base polymer and characteristics indicated that comply with applicable requirements in Division 7 Section "Joint Sealants."

B. Metal Transition Strips: Satin anodized aluminum profile with textured, sloped exposed surface, tapered leading edge, integrated perforated anchoring leg, and integrated grout joint spacer.

1. Basis of Design:

- a. Carpet to Granite: Schluter Systems L.P.; RENO-TK, AETK-100, **3/8 inch (10 mm)** high.
- b. Concrete/Tile to Granite: Schluter Systems L.P.; RENO-RAMP, AERP 100 B65, **3/8 inch (10 mm)** high.
- c. Concrete/Resilient Tile to Ceramic Tile: Schluter Systems L.P.; RENO-RAMP, AERP 125 B90, **1/2 inch (12.5 mm)** high.

C. PVC Cove Base Molding:

1. Basis of Design: Schluter Systems L.P.; number and color as specified in Division 01 Sections "Décor Interior Finishes and Colors."

D. Grout Sealer: Manufacturer's standard silicone product for sealing grout joints that does not change color or appearance of grout.

1. Products:

- a. Custom Building Products; Aqua Mix Grout Sealer.
- b. MAPEI Corp.; Ultracare Tile, Stone & Grout Sealer.

2. Location: Ceramic tile walls in the restrooms.

PART 3 - EXECUTION

3.1 PREPARATION

A. Remove coatings, including curing compounds and other substances that contain soap, wax, oil, or silicone, that are incompatible with tile-setting materials.

B. Fill cracks, holes, and depressions with trowelable leveling and patching compound according to tile-setting material manufacturer's written instructions.

- C. Remove protrusions, bumps, and ridges by sanding or grinding.
- D. Blending: For tile exhibiting color variations, use factory blended tile or blend tiles at Project site before installing.

3.2 INSTALLATION, GENERAL

- A. ANSI Tile Installation Standards: Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated in ceramic tile installation schedules.
- B. TCA Installation Guidelines: TCA's "Handbook for Ceramic Tile Installation."
- C. Install crack-suppression membrane as required by tile manufacturer's installation instructions.
- D. Install waterproofing membrane at wall to floor juncture including inside and outside corners of interior walls of toilet rooms to prevent water leakage into adjacent areas.
- E. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- F. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Grind cut edges of tile abutting trim, finish, or built-in items. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- G. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.
- H. Jointing Pattern: Lay tile in grid pattern, unless otherwise indicated. Align joints when adjoining tiles on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
- I. Joint Widths: Unless otherwise indicated in Division 01 Sections "General Interior Finishes and Colors" and "Décor Interior Finishes and Colors," install tile with manufacturer's recommended minimum grout width.
- J. Grout tile to comply with requirements of ANSI A108.10, unless otherwise indicated.
 - 1. For chemical-resistant epoxy grouts, comply with ANSI A108.6.
- K. Metal Transition Strips: Install at locations indicated or where exposed edge of tile flooring meets other flooring.
- L. Apply grout sealer to cementitious grout joints of restroom walls according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer that has gotten on tile faces by wiping with soft cloth.

3.3 PROTECTION

- A. Cover tile floors with heavy-duty, non-staining construction paper, masked in place. Remove paper and rinse protective coat of neutral cleaner from all tile surfaces prior to acceptance of tile work
- B. Prohibit foot and wheel traffic from using newly tiled floors for 24 hours

3.4 FLOOR TILE INSTALLATION SCHEDULE

- A. Interior floor installation on crack-suppression membrane over concrete; thin-set mortar.
 - 1. Tile: Ceramic or Quarry
 - 2. Thin-Set Mortar: Latex-portland cement mortar
 - 3. Grout: Chemical-resistant, water-cleanable, epoxy grout.

3.5 WALL TILE INSTALLATION SCHEDULE

- A. Interior wall installation; thin-set mortar.
 - 1. Tile: Ceramic
 - 2. Thin-Set Mortar: Latex- portland cement mortar.
 - 3. Grout:
 - a. All areas except restrooms: Polymer-modified unsanded grout.
 - b. Restrooms: Polymer-modified sanded grout.
 - 4. Grout Sealer: Apply only to restroom walls.

END OF SECTION 09 30 00