

SECTION 09310 - CERAMIC TILE

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Ceramic floor and wall tile
 - 2. Mortar, grout,
 - 3. Waterproof membranes
 - 4. Marble thresholds
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 6 Section "Rough Carpentry."
 - 2. Division 9 Section "Gypsum Board Assemblies."

1.03 SECTION REQUIREMENTS

- A. Submit Product Data and Material Samples.
- B. For tile installed on walkway surfaces, provide products with static coefficients of friction of minimum 0.6 for level surfaces and step treads, and of minimum 0.8 for ramp surfaces, as determined by testing identical products per ASTM C 1028.

PART 2 PRODUCTS

2.01 CERAMIC TILE, MORTAR AND GROUT

- A. Ceramic tile that complies with Standard Grade requirements of ANSI A137.1, "Specifications for Ceramic Tile."
- B. Ceramic Tile Floor: Where interior floor installations are indicated, comply with the following:
 - 1. Tile Type: Unglazed Porcelain Ceramic Mosaic Tile. Color as selected by Owner for manufacturer's standard color line. Available products include the following:
 - a. Keystones, Daltile. 1x1 & 2x2 module sizes.
 - 2. Installation Method: TCA F113 (thin-set mortar bonded to concrete subfloor).
 - a. Mortar: Use ANSI A118.1 or A118.4
 - b. Grout: Use ANSI A118.6 or A118.7
 - 3. Installation Method: TCA F143 (thin-set mortar bonded to plywood floors).
 - a. Epoxy Mortar: Use ANSI A118.3
 - b. Epoxy Grout: Use ANSI A118.3
 - c. Waterproof Membrane: Use membrane complying with ANSI A118.10.
- C. Ceramic Wall Tile: Where interior wall installations are indicated, comply with the following:
 - 1. Tile Type: Glazed Porcelain Ceramic Wall Tile. Color as selected by Owner from manufacturer's standard color line. Available products include the following:
 - a. Matte, Daltile.
 - 2. Installation Method: TCA W223 (thin-set mortar bonded to gypsum board on wood studs).
 - a. Organic Adhesive: ANSI A136.1
 - b. Grout: ANSI A118.6 or A118.7
- D. Tile trim units that match characteristics of adjoining flat tile. Provide bullnosed exterior corners and base units.

- E. Protect exposed surfaces of tile against adherence of mortar and grout by factory precoating them with a hot-applied continuous film of petroleum paraffin wax. Do not coat unexposed tile surfaces.

2.02 ACCESSORIES

- A. White, honed marble thresholds complying with the Marble Institute of America's Group A requirements for soundness, and with ASTM C 503 fabricated to be not more than 1/2 inch (12.7 mm) above adjoining finished floor surfaces, with transition edges beveled on a slope of no greater than 1:2.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Comply with parts of ANSI A108 series of tile installation standards in "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated.
- B. Comply with TCA's "Handbook for Ceramic Tile Installation."
- C. At sinks, tubs, showers, and other wet walls provide moisture resistant gypsum board and treat joints to comply with ANSI A108.11.
- D. Lay tile in grid pattern, unless otherwise indicated. Align joints where adjoining tiles on floor, base, walls, and trim are the same size.
- E. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

END OF SECTION 09310