

SECTION 09300 - CERAMIC TILE THIN SET TILING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. ~~Extent of unglazed ceramic mosaic tile and glazed porcelain tile and trim is shown on drawings and schedules.~~

1.02 QUALITY ASSURANCE

- A. All work shall be installed in compliance with ANSI standards and the latest edition of the Tile Council of America's "Handbook for Ceramic Tile Installation".
- B. Ceramic tile materials shall comply with ANSI A137.1 "Standard Specifications for Ceramic Tile" and shall be further classified as impervious with water absorption 0.5% or less.
- C. Install grout and tile sealer at Mens and Womens toilet rooms in strict conformance with manufacturer's instructions.
- D. Moisture vapor emission testing shall be performed in conformance with ASTM F 1869 Latest Edition. Maximum acceptable levels shall be as indicated in article 2.02 A and 2.02B below.
- E. Relative Humidity testing shall be performed in conformance with ASTM F 2170 Latest Edition. Maximum acceptable levels shall be as indicated in article 2.02 A and 2.02 B below.
- F. Alkalinity testing shall be performed per ASTM F 710 Latest Edition. Maximum acceptable levels shall be as indicated in article 2.02 A and 2.02 B below.

PART II - PRODUCTS

2.01. PORCELAIN TILE

- A. ~~Manufacturer: American Olean, contact: Janet Kennedy (847) 238-9780, ext. 308
Womens Room and Mens Room:~~
1. Manufacturer: Florida Tile, Inc. Contact: Carol Kotel (224) 659-4107 and request Walgreens account pricing.
 2. Product: Taconic Slate Porcelain Portfolio;
 3. Color: Field - MAFT-25106 12"x12" Taconic: Dark Rock
 4. Type: Unglazed Porcelain
 5. Size: 12"x12"x3/8" thick
 6. Face: Matte finish
 7. Bullnose Base: MAFT-25106 P43C9 3"x12" Taconic: Dark Rock..
- B. ~~Terra Granite series glazed Ceramic Floor Tile:~~
1. Color: UP83 "Speckled Linen"
 2. Type: Vitreous.
 3. Size: Nominal 12" x 12" x 5/16" thick.
 4. Face: Slip resistant with cushioned edges.

~~C. Base: Glazed finish S-3689T.~~

~~1. Color: UP93 "Speckled Linen".~~

~~2. Type: Vitreous.~~

~~3. Size: 6" x 8"~~

~~4. Face: Cove base with rounded top and matching external out corners.~~

~~D.B. Bullnose: S-4489, color to match floor tile.~~

2.02 MORTAR

- A. ~~Dry Set Portland Cement Mortar: Product shall comply with ANSI A118.4. Rapid-setting, Polymer-modified, Full Contact mortar: Product shall meet or exceed ANSI A118.4 standards. Provide Mapei Corp. Ultracontact RS.~~
- ~~1. Moisture vapor emission from the substrate shall not exceed 5 lbs. Per 1,000 Sq. Ft. per 24 hour period. Testing shall be performed in conformance with ASTM F 1869.~~
 - ~~2. Relative Humidity within the substrate, measured by in-situ probes at not less than 40% of the slab depth, shall not exceed 90%. Testing shall be performed in conformance with ASTM F 2170. Provide three tests for the first 1,000 Sq. Ft. and one test for each additional 1,000 Sq. Ft.~~
 - ~~3. Alkalinity testing shall be performed per ASTM F 170. Alkalinity of the substrate shall not exceed 9 on the ph scale. Alkalinity testing shall include, but not be limited to, any area where concrete has been ground to ensure that the alkalinity does not exceed requirements.~~
- B. ~~Latex Portland Cement Mortar: Product shall comply with ANSI 118.4. Rapid-setting, Polymer-modified, Flexible mortar: Product shall meet or exceed ANSI A118.4 Standards. Provide Mapei Corp. Granirapid System.~~
- ~~1. Moisture vapor emission from the substrate shall not exceed 11 lbs. Per 1,000 Sq. Ft. per 24 hour period. Testing shall be performed in conformance with ASTM F 1869.~~
 - ~~2. Relative Humidity within the substrate, measured by in-situ probes at not less than 40% of the slab depth, shall not exceed 95%. Testing shall be performed in conformance with ASTM F 2170. Provide three tests for the first 1,000 Sq. Ft. and one test for each additional 1,000 Sq. Ft.~~
 - ~~3. Alkalinity testing shall be performed per ASTM F 710. Alkalinity of the substrate shall not exceed 9 on the ph scale. Alkalinity testing shall include, but not limited to, any area where concrete has been ground to ensure that the alkalinity does not exceed requirements.~~

2.03 GROUT

- A. ~~Commercial Portland Cement Grout: Product shall comply with ANSI A118.6. Provide W.R. Benson Co., color: Taupe (or equal in matching color). Fast Setting, Polymer-modified, Color-consistent, Non-shrinking, Efflorescence free grout: Product shall meet or exceed ANSI A118.7 Standard. Provide Mapei Corp. Ultracolor Plus. Color: Charcoal.~~

2.04 GROUT & TILE SEALER

- A. Furnish and Install one of the following invisible penetrating sealer products: Bostik Findley water-based acrylic "Grout & Tile Sealer™", Custom Building Products water-based "SurfaceGard®", "TileLab® Grout & Tile Sealer" or "TileLab® Grout Sealer".

2.05 EXPANSION AND CONTROL JOINT SEALANT

- A. One Component, Non-sag, mildew-resistant silicone sealant.

PART III - EXECUTION

3.01 INSTALLATION

- A. Comply with applicable part of ANSI 108 for tile installation.
- B. Comply with applicable parts of TCA "Handbook for Ceramic Tile Installation".
1. Floor Tile: TCA F 113-95, Dry-Set Mortar or Latex-Portland Cement Mortar.
 2. Wall Tile: TCA W 223-95 and W 244-95 Dry-Set Mortar or Latex-Portland Cement Mortar.
- C. Extend tile work into recesses and behind fixtures. Terminate work without disrupting pattern or joint alignment.
- D. Fit tiles closely to penetrations so that collars/covers overlay tile.
- E. Jointing: Lay tile in grid pattern, with 1/4" joint
- F. Grout tiles in conformance with ANSI A108.10.
- G. Bullnose base shall be installed with mitered ends at all inside and outside corners with sealant at corner joint matching grout color.
- H. Expansion and Control Joints: Provide control or expansion joints as located in contract drawings and as indicated below.
1. Substrate joints must carry through, full width to surface of tile.
 2. Install expansion joints in tile over construction / cold joints in substrates.
 3. Install expansion joints where tile abut restraining surfaces (such as perimeter walls, curbs and columns) changes in plane and corners.
 4. Joint width and spacing – comply with applicable parts of TCA "Handbook for Ceramic Tile Installation".
 - a. Joint width: Full width of substrate, minimum 1/8", 1/4" preferred.
 - b. Joint width to depth ratio – 2:1 but joint depth shall be minimum 1/8" and maximum 1/2".

3.02 CLEANING AND PROTECTION

- A. Clean all completed ~~ceramic~~ porcelain tile surfaces to be free of foreign matter.
- B. Finish installation shall be free of cracked, broken, chipped, unbonded, mis-aligned or other defective tile work.

END OF SECTION

