

DIVISION 09: FINISHES (cont.)

- F. Tiling:**  
1. **Summary:** This section includes tile at interior floors and walls, stone thresholds, tile accessories tile setting materials, and tile grout materials.
2. **Submittals:**  
a. **Product Data:** For each tile type selected by Tenant.  
b. **Samples:** For each type of tile selected by Tenant.
3. **Quality Assurance:** Provide Standard grade tile that complies with ANSI A137.1 for types, compositions and other characteristics indicated.
4. **Warranty:** A single source warranty for the materials and installation of the scope of tile indicated in the Drawings and selected by Tenant, shall encompass the tile, setting materials, installation methods and labor associated with the complete installation of each material.
5. **Performance Requirements:**  
a. **Static Coefficient of Friction:** Floor Tile shall have a minimum 0.6 COF, as determined by testing per ASTM C 1028.
6. **Extra Materials:** Furnish extra materials,before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.  
a. **Quantity:** As indicated in Tenant Requirements.
7. **Tile Products:** Tile type, manufacturer, series, size, color and finish as selected by Tenant:  
a. **Floor Tiles:** To be selected by Tenant.  
b. **Wall Tiles:** To be selected by Tenant.  
c. **Trim Tiles:** As selected by Tenant, from standard trim tiles included in the Floor and Wall Tile Series selected by Tenant.  
1) **Wall Base:** To be selected by Tenant.  
2) **Wainscot Cap:** To be selected by Tenant.  
3) **External Wall Corners:** To be selected by Tenant.  
4) **Internal Wall Corners:** To be selected by Tenant.
8. **Stone Thresholds:** Fabricate to sizes and profiles as required to provide door threshold transitions from tile floor areas to an adjacent dissimilar floor finish.  
a. **Material:** Marble, as selected by PGATSS, which has been tested in accordance with ASTM C 503, with a minimum abrasion resistance of 10 per ASTM C 1353 or ASTM C 241 and with a honed finish.
9. **Tile Accessories:**  
a. **Metal Transition Strips:** As may be selected by PGATSS at the following locations:  
1) Vertical wall tile corners.  
2) Horizontal wainscot tile terminations.  
3) Other locations as may be required.
10. **Tile Setting Materials:** Provide all tile setting materials from a single Manufacturer.  
a. **Manufacturers:** Select a "family" of products from one of the following Manufacturers:  
1) Custom Building Products  
2) Mapei  
3) Laticrete  
b. **Mortar:** Portland Cement Dry-Set Mortar with Acrylic Latex Admixture for Thin-Set Installations, which meets or exceeds ANSI A118.4 and ANSI A118.11 requirements.  
c. **Grout:** Premium-grade premixed polymer-modified sanded Portland-cement tile grout for joints ranging from 1/8-inch to 5/8-inch in width, that only requires the additin of water for mixing, and meets or exceeds ANSI A118.6.  
d. **Sealant-Type Control Joint Material:** Siliconized Control Joint Sealant complying with ASTM 920.  
e. **Grout Joint Sealer:** Manufacturer's standard silicone product for sealing grout joints, which does not change the color or appearance of the grout
11. **Examination:**  
a. **Examine** substrates where tile will be installed, with Tile Installer present, for compliance with requirements for installation tolerances and other conditions that will affect the performance of installed tile.  
b. **Verify** that substrates for setting tile are firm, dry, clean, free of coatings that are incompatible with tile setting materials, including curing compounds and other substances that contain soap, wax, oil or silicone.  
c. **Verify** that substrates comply with flatness tolerances required by ANSI A108.01 for the
12. **Installation:**  
a. **ANSI A108 Series** in "Specifications for Installation of Ceramic Tile": Comply with the types of setting materials, grouting materials and installation methods indicated/  
b. **Tile Council of America (TCA):** Comply with installation methods from the "Handbook for Ceramic Tile Installation":  
1) **TCA #F113:** Thin-set floor tile installation over new slab-on-grade, without anti-fracture membrane.  
2) **TCA #W244:** Thin-set wall tile installation over cementitious backer units.  
c. **Tile Cleaning:** Upon the completion of grout joint placement and curing, clean all ceramic tile surfaces so they are free of foreign matter. Use cleaning materials and cleaning methods that comply with grout manufacturer's and tile manufacturer's written instructions.  
d. **Grout Sealer:** Apply grout sealer to grout joints in tile floors according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer from tile faces by wiping with a soft cloth.

- G. Resilient Base and Accessories:**  
1. **Summary:** This Section includes materials and installation of resilient base at interior partitions and resilient transition strips at dissimilar floor finishes.
2. **Submittals:**  
a. **Product Data:** For each type of product indicated.  
b. **Samples:** For each type of product indicated.
3. **Performance Requirements:**  
a. **Fire-Test-Response Characteristics:** Products tested in accordance with ASTM E 648.  
b. **Critical Radiant Flux Classification:** Class 1, not less than 0.45 W / sq. cm.
4. **Extra Materials:** Furnish extra materials,before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.  
a. **Quantity:** As indicated in Tenant Requirements
5. **Products:**  
a. **Manufacturers:** Subject to compliance with requirements and as indicated in Tenant Requirements; or, if not indicated in Tenant Requirments, select products from one of the following Manufacturers:  
1) Armstrong World Industries, Inc.  
2) Johnstone  
3) Roppe Corporation, USA  
b. **Resilient Base:** Comply with ASTM F 1861.  
1) **Material:** Rubber  
2) **Style:** Cove (base with toe)  
3) **Height:** 4-inches  
4) **Lengths:** Cut lengths 48-inches long or coils in Manufacturer's standard length.  
5) **Outside Corners:** Preformed.  
6) **Inside Corners:** Preformed.  
7) **Finish and Colors:** As indicated in Tenant Requirements.  
c. **Resilient Transition Strips:**  
1) **Material:** Rubber  
2) **Profiles:** As selected by PGA from Manufacturer's standard options for the following conditions:  
i. Transition Strip between carpet and resilient floor tile.  
ii. Transition Strip between carpet and concrete slab.  
iii. Transition Strip between resilient floor tile and concrete slab.
6. **Related Materials:**  
a. **Installation Adhesive:** Water-resistant type recommended by Manufacturer to suit resilient products and substrate conditions indicated.  
1) Use adhesives that comply with the following VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):  
i. Cove Base Adhesives: Not more than 50 g / L.
7. **Preparation:** Refer to Division 09 Section "Resilient Tile Flooring".
8. **Installation:** Install resilient base and transition strips in accordance with Manufacturer's written instructions.

- H. Resilient Tile Flooring:**  
1. **Summary:** This section includes materials and installation of resilient tile at locations indicated in the Drawings.
2. **Submittals:**  
a. **Product Data:** For each type of product indicated.  
b. **Samples:** For each type of product indicated.  
c. **Maintenance Data:** Written information and instructions provided by the Manufacturer.
3. **Performance Requirements:**  
a. **Fire-Test-Response Characteristics:** Products tested in accordance with ASTM E 648.  
b. **Critical Radiant Flux Classification:** Class 1, not less than 0.45 W / sq. cm.
4. **Extra Materials:** Furnish extra materials,before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.  
a. **Quantity:** As indicated in Tenant Requirements.
5. **Products:**  
a. **Manufacturers:** Subject to compliance with requirements, provide products from Manufacture as indicated in Tenant Requirements; or, if not indicated in Tenant Requirments, select products from one of the following Manufacturers:  
1) Armstrong World Industries, Inc.  
2) Johnstone  
3) Roppe Corporation, USA  
b. **Floor Tile Materials:** Provide resilient tile materials and accessories as indicated in Tenant Requirements.  
1) **Solid Vinyl Floor Tile:** Comply with ASTM F 1700.  
2) **Rubber Floor Tile:** Comply with ASTM F 1344.  
3) **Vinyl Composition Tile:** Comply with ASTM F 1066
6. **Preparation:**  
a. **Prepare** substrates according to Manufacturer's written instructions.  
b. **Prepare** concrete substrates according to ASTM F 710  
c. **Verify** that substrates are dry and free of curing compounds, sealers and hardners.  
d. **Remove** substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil or silicone, using mechanical methods recommended by Manufacturer. Do not use solvents.  
e. **Alkalinity and Adhesion Testing:** Perform tests recommended by Manufacturer.  
f. **Moisture Testing:** Perform tests recommended by Manufacturer and as follows. Proceed with installation only after substrates pass testing:  
1) Perform anhydrous calcium chloride test, in accordance with ASTM F 1869. Proceed with installation only after substrates have a maximum moisture-vapor-emission rate of 3 lb. of water / 1000 sq. ft. in 24 hours.  
2) Perform relative humidity test using in situ probes, in accordance with ASTM F 2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
7. **Installation:** Comply with Manufacturer's written instructions for installing floor tile.installations indicated.
- I. Sheet Carpeting:**  
1. **Summary:** This section includes tufted or woven carpet and carpet cushion as indicated in Tenant Requirements.
2. **Submittals:**  
a. **Product Data:** For each type of product indicated.  
b. **Samples:** For each type of product indicated.  
c. **Maintenance Data:** Manufacturer's written information regarding cleaning and maintaining carpet.
3. **Quality Assurance:**  
a. **Installer Qualifications:** An experienced installer who is certified by the Floor Covering Installation Board, or who can demonstrate compliance with its certification program requirements.
4. **Warranty:** Manufacturer's standard form in which manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period. Failure includes, but is not limited to, permanent indentation or compression.  
a. **Warranty Period:** As indicated in Tenant Requirements.
5. **Extra Materials:** Furnish extra materials described below, before installation begins, that match products to be installed and that are packaged with protective covering for storage and identified with labels describing contents.  
a. **Quantity:** As indicated in Tenant Requirements.
6. **Products:**  
a. **Manufacturers:** Carpet Manufacturer shall be as indicated in Tenant Requirements.  
b. **Carpet Materials and Accessories:** Shall be as indicated in Tenant Requirements.
7. **Installation:** Comply with CRI 104 and carpet manufacturer's written installation instructions.

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