

HARD TILE

- PART 1 GENERAL**
- 1.1 SECTION INCLUDES
- A. Tile and Accessories:
- 1.2 REFERENCES
- A. American National Standards Institute (ANSI):
- B. ASTM International (ASTM):
- C. Tile Council of North America (TCNA): TCA Handbook for Ceramic Tile Installation, 2007.
- 1.3 PERFORMANCE REQUIREMENTS
- A. Static Coefficient of Friction: Tile on walkway surfaces shall be provided with the following values as determined by testing in conformance with ASTM C 1028.
- Level Surfaces: Minimum of 0.6 (Wet).
  - Step Treads: Minimum of 0.6 (Wet).
  - Ramp Surfaces: Minimum of 0.8 (Wet).
- 1.4 SUBMITTALS
- A. Submit per the instructions in the General Conditions
- B. Manufacturer's data sheets on each product to be used, including:
- Preparation instructions and recommendations.
  - Storage and handling requirements and recommendations.
  - Installation methods.
- C. Selection Samples: Samples of actual tiles for selection.
- D. Samples: Mount tile and apply grout on two plywood panels, illustrating pattern, color variations, and grout joint size variations.
- E. Manufacturer's Certificate:
- Certify that products meet or exceed specified requirements.
  - For each shipment, type and composition of tile provide a Master Grade Certificate signed by the manufacturer and the installer certifying that products meet or exceed the specified requirements of ANSI A137.1.
- F. Maintenance Data: Include recommended cleaning methods, cleaning materials, stain removal methods, and polishes and waxes.
- 1.5 QUALITY ASSURANCE
- A. Installer Qualifications: Company specializing in performing the work of this section with minimum two years' experience.
- B. Single Source Responsibility: Obtain each type and color of tile from a single source. Obtain each type and color of mortar, adhesive and grout from the same source.
- 1.6 DELIVERY, STORAGE, AND HANDLING
- A. Deliver and store products in manufacturer's unopened packaging until ready for installation.
- B. Protect adhesives and liquid additives from freezing or overheating in accordance with manufacturer's instructions.
- C. Store tile and setting materials on elevated platforms, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.
- 1.7 ENVIRONMENTAL REQUIREMENTS
- A. Do not install adhesives in an unventilated environment.
- B. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during tiling and for a minimum of 7 days after completion.
- 1.8 EXTRA MATERIALS
- A. Provide for Owner's use a minimum of 2 percent of the primary sizes and colors of tile specified, boxed and clearly labeled.

**PART 2 PRODUCTS**

- 2.1 TILE
- A. General: Provide tile that complies with ANSI A137.1 for types, compositions and other characteristics indicated. Provide tile in the locations and of the types colors and pattern indicated on the Drawings and identified in the Schedule and the end of this Section. The tile shall also be provided in accordance with the following:
- Factory Blending: For tile exhibiting color variations within the ranges selected under Submittal of samples, blend tile in the factory and package so tile taken from one package shows the same range of colors as those taken from other packages.
  - Mounting: For factory mounted tile, provide back or edge mounted tile assemblies as standard with the manufacturer, unless otherwise specified.
  - Factory Applied Temporary Protective Coatings: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by pre-coating with a continuous film of petroleum paraffin wax applied hot. Do not coat unexposed tile surfaces.
- B. Floor and Wall Tile:
- Refer to finish schedule for selection of tile and grout.
  - Refer to drawings for tile pattern.
  - Trim Units: Matching bullnose, cove base corner, cove base outcorner, jolly, grooved bullnose, cement bullnose, fabric bullnose, shapes in sizes coordinated with field tile.
- 2.2 TRIM AND ACCESSORIES
- A. Stone Thresholds: Provide stone thresholds uniform in color and finish and fabricated as follows:
- Material: Marble, complying with ASTM C 503 for exterior use and with a minimum abrasive hardness of 10 when tested in accordance with ASTM C 241.
  - Color/Finish: As selected from the manufacturer's standard range.
  - Size: Fabricate 2 inches (50 mm) wide by full width of wall or frame opening; 1/2 inch (12 mm) thick; beveled one long edge with radiused corners on top side; without holes, cracks, or open seams.
  - Provide to provide transition between tile surface and adjoining finishes and at the following locations:
    - At doorways where tile terminates.
    - At open edges of floor tile where adjacent finish is a different height.
- B. Schluter Products:
- See drawings for type and location of product used.
  - Install as per manufacturer's instructions.
- 2.3 SETTING MATERIALS
- A. Epoxy Adhesive: ANSI A118.3, thinset bond type.
- B. Standard Grout: Cement grout, sanded or unsanded, as specified in ANSI A118.6; color as selected.
- C. Epoxy Grout: ANSI A118.8, 100 percent solids epoxy grout; color as selected.

**PART 3 EXECUTION**

- 3.1 EXAMINATION
- A. Verify that wall surfaces are free of substances which would impair bonding of setting materials, smooth and flat within tolerances specified in ANSI A137.1, and are ready to receive tile.
- B. Verify that sub-floor surfaces are dust-free, and free of substances which would impair bonding of setting materials to sub-floor surfaces, and are smooth and flat within tolerances specified in ANSI A137.1.
- C. Verify that concrete sub-floor surfaces are ready for installation by testing for moisture emission rate and alkalinity; obtain instructions; test results are not within limits recommended by tile manufacturer and setting material manufacturer.
- D. Verify that required floor-mounted devices are in correct location.
- 3.2 PREPARATION
- A. Protect surrounding work from damage.
- B. Remove any curing compounds or other contaminants.
- C. Vacuum clean surfaces and dampen.
- D. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.
- E. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

HARD TILE (CONTINUED)

- 3.3 INSTALLATION - GENERAL
- A. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and TCA Handbook recommendations.
- B. Lay tile to pattern indicated. Arrange pattern so that a full tile or joint is centered on each wall and that no tile less than 1/2" width is used. Do not interrupt tile pattern through openings.
- C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
- D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
- E. Form internal angles square and external angles bullnose.
- F. Install ceramic accessories (if specified in drawings) rigidly in prepared openings.
- G. Install non-ceramic trim (if specified in drawings) in accordance with manufacturer's instructions.
- H. Install thresholds where indicated.
- I. Sound tile after setting. Replace hollow sounding units.
- J. Keep expansion joints free of adhesive or grout. Apply sealant to joints.
- K. Allow tile to set for a minimum of 48 hours prior to grouting.
- L. Grout tile joints. Use standard grout unless otherwise indicated.
- M. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.
- 3.4 INSTALLATION - FLOORS - THIN-SET METHODS
- A. Over exterior concrete substrates, install in accordance with TCA Handbook Method F102, with standard grout.
- B. Over interior concrete substrates, install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with standard grout, unless otherwise indicated.
- 3.5 INSTALLATION - WALL TILE
- A. Over gypsum wallboard on wood or metal studs install in accordance with TCA Handbook Method W243, thin-set with dry-set or latex-portland cement bond coat, unless otherwise indicated.
- 3.6 CLEANING
- A. Clean tile and grout surfaces.
- 3.7 PROTECTION OF FINISHED WORK
- A. Do not permit traffic over finished floor surface for 72 hours after installation.
- B. Cover floors with kraft paper and protect from dirt and residue from other trades.
- C. Where floor will be exposed for prolonged periods cover with plywood or other similar type walkways

END OF SECTION

RESILIENT TILE FLOORING

(Solid Vinyl Tile & Plank)

**PART 1 GENERAL**

- 1.1 SUMMARY
- A. Section Includes:
- Luxury Vinyl Tile
  - Description of Work: Provide and install all modular resilient flooring as required by contract documents and their specifications.
- 1.2 SUBMITTALS
- A. Submit each of the following with your proposal (unless otherwise noted):
- Manufacturer's Data - Two (2) copies of resilient manufacturer's construction specifications, performance specifications, installation instructions, maintenance instructions, and warranty for resilient flooring and related items specified.
  - Samples: Customary (standard) size samples of each type of LVT, in each specified pattern, color, and construction.
- PART 2 PRODUCTS**
- 2.01 RESILIENT FLOORING MATERIALS
- 2.1 Luxury Vinyl Tile (LVT) Performance Standards. Resilient flooring shall meet the following performance standards:
- Radiant Flux (ASTM E648) ≥ 0.45 watts/cm2, Class 1
  - Smoke Density (ASTM E662) ≤ 450
  - Size & Squareness (ASTM F2055) Passes, +/- 0.016 inch per linear foot
  - Thickness (ASTM F386) Passes
  - IC Sound Rating (ASTM E492-09) 57 IC
  - Slip Resistance (ASTM D2047) 0.55 wet/dry, ADA compliant
  - Static Load Limit (ASTM F970) 1500 psi
  - Flexibility (ASTM F137) Passes
  - Resistance to heat (ASTM F1514) Passes
  - Resistance to light (ASTM F1515) Passes
  - Dimensional Stability (ASTM F2199) Passes
  - Residual Indentation (ASTM F1914) Passes
  - Resistance to Chemicals (ASTM F925) Passes
  - Carbon Footprint 3rd party verified Carbon Neutral
  - Indoor Air Quality/FloorScore/CDPH 01350 Certified for Low-VOC emissions
  - Material Composition/Free of Ortho Phthalates, Added Formaldehyde and Heavy Metal Standards
  - Ingredients and Life Cycle Impact/Environmental Product Declaration
  - Sustainability Assessment/NSF/ANSI 332 Silver
  - LEED v4/Contributes to EQ: Low emitting materials; M&R: EPDs; EPR
  - End of Life/fully recyclable LVT to Carpet Tile Backing Recycling Method
- 2.2 Product Construction Specification. LVT shall meet the following construction specifications:
- Construction: High performance luxury vinyl tile
  - Class / ASTM F700: Class III Printed Vinyl Tile
  - Wear Layer Thickness: 22 mil
  - Total Thickness: 4.5 mm
  - Backing Class: Commercial grade with sound absorption characteristics to meet IIC Sound Rating requirement.
  - Finish: Ceramic
  - Nominal Dimensions: 18" x 18" x 2mm. Flooring design installation includes modular carpet, modular resilient dimensions must match modular carpet dimensions.
  - Installation Recommendation: Floating floor, glue-free installation system
  - Herringbone or Ashlar installation method: All product shall be designed for Herringbone or Ashlar installation
  - When flooring design installation includes modular carpet, there shall be no carpet to transition strips or layering added.
3. Related Items:
- Labeling compound - Use only Portland based leveling and patching compound as recommended by resilient flooring provider.
  - Glue - Installation shall be free of the application of wet adhesive.
  - Installation connectors - Compounded acrylic adhesive, applied to PET polyester backing with PET polyester release liner (clear 3" x 3" polyester squares with small quantity of a pressure sensitive adhesive applied on one side of the polyester film). The squares connect the resilient flooring modules together to form a stable surface over almost any hard subfloor. The connectors shall contain no liquid components and shall have "zero" calculated VOC's.

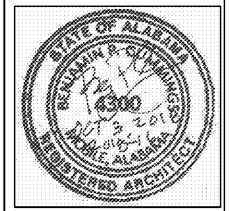
ACOUSTICAL CEILING

- PART 1 GENERAL**
- 1.1 QUALITY ASSURANCE
- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Performance: Fire, structural, and seismic performance meeting requirements of building code and local authorities. Acoustical performance based on project requirements.
- PART 2 PRODUCTS**
- 2.1 MATERIALS
- A. Ceiling Tile: Armstrong Ultima 1912 (2'x2'x3/4") white
- B. Ceiling Grid: Armstrong 9/16" grid system
- C. Auxiliary Materials:
- Edge molding and trim.
  - Hold-down clips and impact clips.
  - Concealed acoustical sealant.
- PART 3 EXECUTION**
- 3.1 INSTALLATION
- A. Install materials and suspension systems in accordance with manufacturer's instructions and recommendations, and ASTM C 636. Coordinate installation with location of mechanical and electrical work to ensure proper location and anchorage.
- B. Level ceiling to within 1/8 inch in 10 feet in all directions. Scribe and cut panels to fit accurately. Measure and layout to avoid less than half panel units.
- C. Removal and reinstallation at existing ceilings: Remove and store materials for reuse when allowed. Handle with white gloves and avoid damaging corners and edges. Clean tiles and grid system, which has been removed. Provide additional materials to complete the job and to replace damaged existing materials. New materials shall match existing materials as approved.
- D. Ceiling areas shall be measured to establish layout of acoustical units to balance bays widths at the edges of each ceiling. Avoid use of less-than-half width units at borders.
- E. Grid shall be symmetrically laid out in each space. Coordinate work with other trades for light fixtures, grilles and other ceiling fixtures work with grid layout. Support suspension system shall be from structure above, not from ductwork, metal deck, equipment or piping.
- F. Wall moldings shall be installed at the perimeter of each acoustical ceiling area and at locations where edge of units would otherwise be exposed.
- G. Field cut acoustical panels as required, in accordance with manufacturers recommended procedures and equipment.
- H. Adjust, clean, and touch-up all system components.

END OF SECTION



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REVISIONS

MARK	DATE

SHEET NAME  
**ARCHITECTURAL SPECIFICATIONS**

PROJECT NO. 2018-16  
DATE OCTOBER 3, 2018  
SHEET NO.

**A0.7**

Order Plans @