

**SECTION 09 30 05**  
**TILE FOR POOLS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Tile for pool applications.

**1.02 RELATED REQUIREMENTS**

- A. Section 07 90 10 - Pool Joint Sealers.

**1.03 REFERENCE STANDARDS**

- A. ANSI A108 Series/A118 Series/A136.1 - American National Standard Specifications for the Installation of Ceramic Tile (Compendium); 2012.1.
  - 1. ANSI A108.1a - American National Standard Specifications for Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar; 2012.1.
  - 2. ANSI A108.1b - American National Standard Specifications for Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar; 2012.1.
  - 3. ANSI A108.1c - Specifications for Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar or Installation of Ceramic Tile on a Cured Portland Cement Mortar Bed with Dry-Set or Latex Portland Cement Mortar; 2012.1.
  - 4. ANSI A108.4 - American National Standard Specifications for Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive; 2012.1.
  - 5. ANSI A108.5 - American National Standard Specifications for Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar; 2012.1.
  - 6. ANSI A108.6 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy; 2012.1.
  - 7. ANSI A108.8 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant Furan Resin Mortar and Grout; 2012.1.
  - 8. ANSI A108.9 - American National Standard Specifications for Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout; 2012.1.
  - 9. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 2012.1.
  - 10. ANSI A108.11 - American National Standard for Interior Installation of Cementitious Backer Units; 2012.1.
  - 11. ANSI A108.12 - American National Standard for Installation of Ceramic Tile with EGP (Exterior glue plywood) Latex-Portland Cement Mortar; 2012.1.
  - 12. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2012.1.
  - 13. ANSI A118.3 - American National Standard Specifications for Chemical Resistant, Water Cleanable Tile Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive; 2012.1.
  - 14. ANSI A118.4 - American National Standard Specifications for Latex-Portland Cement Mortar; 2012.1.
  - 15. ANSI A118.5 - American National Standard Specifications for Chemical Resistant Furan Mortars and Grouts for Tile Installation; 2012.1.
- B. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2012.

**1.04 SUBMITTALS**

- A. See Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate tile layout.
- C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements and that the tile is appropriate for use in swimming pools.

- D. Maintenance Data: Include recommended cleaning methods, cleaning materials, stain removal methods, and polishes and waxes.

#### **1.05 QUALITY ASSURANCE**

- A. Maintain one copy of The Tile Council of North America Handbook and ANSI A108 Series/A118 Series on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum 5 years of documented experience.
- C. Installer Qualifications: Company specializing in performing tile installation, with minimum of 5 years of documented experience.

#### **1.06 MOCK-UP**

- A. See Quality Requirements, for general requirements for mock-up.
- B. Construct a mock-up, 5 feet with tile and finish grout.
- C. Minimum size of mock-up is indicated on the drawings.

#### **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

#### **1.08 FIELD CONDITIONS**

- A. Do not install solvent-based products in an unventilated environment.
- B. Maintain ambient and substrate temperature of 50 degrees F during installation of mortar materials.

### **PART 2 PRODUCTS**

#### **2.01 TILE**

- A. Manufacturers: All products by the same manufacturer.
  - 1. Specified Manufacturer: Dal-Tile: [www.daltile.com](http://www.daltile.com).
  - 2. Acceptable Manufacturer: American Olean: [www.americanolean.com](http://www.americanolean.com).
  - 3. Substitutions: See Product Requirements.
- B. Glazed Porcelain Tile: ANSI A137.1, and as follows:
  - 1. Moisture Absorption: 0 to 0.5 percent.
  - 2. Size and Shape: 2x2.
  - 3. Product: Dal-Tile Keystones; moisture absorption 0.5 percent or less.
  - 4. Edges: Cushioned.
  - 5. Surface Finish: Slip resistant, coefficient of friction equal to or exceeding 0.7 wet.
  - 6. Colors: To be selected from manufacturer's standard range for color groups 1, 2, 3, and 4.
  - 7. Trim Units: Matching bead, cove, and surface bullnose shapes in sizes coordinated with field tile.
  - 8. Tile sheets shall be face mounted.
  - 9. Tile shall be rated by the tile manufacturer for use in swimming pool applications.
  - 10. Provide 25 s.f. of additional spare tile for future replacement.

#### **2.02 SETTING MATERIALS**

- A. Epoxy Adhesive and Mortar Bond Coat: ANSI A118.3.
  - 1. Applications: Where indicated.
  - 2. Products:
    - a. LATICRETE International, Inc; LATICRETE LATAPOXY 300 Adhesive: [www.laticrete.com](http://www.laticrete.com).

#### **2.03 MORTAR MATERIALS**

- A. Mortar Bond Coat Materials for Thin-Set Installations:
  - 1. Epoxy: ANSI A118.3; white color. Use in all outdoor applications.

## **2.04 GROUTS**

- A. Epoxy Grout: ANSI A118.3 chemical resistant and water-cleanable epoxy grout.
  - 1. Color(s): As selected by Engineer from manufacturer's full line.
  - 2. Color(s): As scheduled.
  - 3. Products:
    - a. LATICRETE International, Inc; LATICRETE SpectraLOCK PRO Premium Grout:  
www.laticrete.com.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.
- B. Verify that surfaces are dust-free and free of substances which would impair bonding of setting materials to those to receive tile surfaces.
- C. Verify that required items mounted in tiled areas are in correct location.

### **3.02 PREPARATION**

- A. Protect surrounding work from damage.
- B. Vacuum clean surfaces and damp clean.
- C. Seal substrate surface cracks with filler.

### **3.03 INSTALLATION - GENERAL**

- A. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and The Tile Council of North America Handbook recommendations.
- B. Lay tile to pattern indicated. 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 grout joints without voids, cracks, excess mortar or excess grout, or too little grout.
- E. Form internal angles square and external angles bullnosed.
- F. Sound tile after setting. Replace hollow sounding units.
- G. Keep control joints free of adhesive or grout. Apply sealant to joints.
- H. Prior to grouting, allow installation to completely cure; minimum of 48 hours.
- I. Grout tile joints. Use standard grout unless otherwise indicated.
- J. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

### **3.04 INSTALLATION - THIN-SET METHODS**

- A. For swimming pools, install in accordance with TCA Handbook Method P601.
- B. Over concrete substrates, install in accordance with TCA Handbook Method F102, with standard grout.

### **3.05 CLEANING**

- A. Clean tile and grout surfaces.

### **3.06 PROTECTION**

- A. Do not permit traffic over finished floor surface for 4 days after installation.

### **3.07 SCHEDULE**

- A. Edge of deck at pool gutter:
  - 1. Tile: Porcelain.
    - a. Size: 2 x 2 inch

- b. Colors:
  - 1) Color 1 - Color Group 1: 10%
  - 2) Color 2 - Color Group 2, 3, or 4: 90%
- 2. Installation method: Thin set.
- 3. Grout: Epoxy.

**END OF SECTION**