

SECTION 0506 - QUARRY TILE

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. Quarry tile floor finish using the Latex Ported Cement mortar application method.
1.2 REFERENCES
A. ANSI A108.2 - Installation of Quarry Tile with Portland Cement Mortar.
B. ANSI A108.3 - Installation of Quarry Tile in Tiles.
C. ANSI A118.4 - Latex Ported Cement Mortar.
D. ANSI A118.6 - Ceramic Tile Crackout.
E. ANSI A137.1 - Standard Specifications for Ceramic Tile.
F. TCA (The Council of American) - Current Edition Handbook for Ceramic Tile Installation.

- 1.3 QUALIFICATIONS
A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three year documented experience.
B. Installer: Company specializing in performing the work of this Section with minimum three years documented experience, and approved by the manufacturer.

- 1.4 ENVIRONMENTAL REQUIREMENTS
A. Do not install materials in an unventilated environment.
B. Maintain 50 degrees F (10 degrees C) during installation of mortar materials.

- PART 2 PRODUCTS
A. Mortar Material: ANSI A118.4 Latex Modified, Portland cement, sand and latex additive.
2.1 TILE MANUFACTURERS
A. Quarry tile shall be 12" x 12" with abrasive gran and cover base finish to match.
B. Color: "Marble Gray" #133
C. Provide Quarry Features tile as manufactured by Dole Tile Corp. or equal.

- 2.2 MORTAR MATERIALS
A. Mortar Material: ANSI A118.4 Latex Modified, Portland cement, sand and latex additive.
2.3 GROUT MATERIALS
A. Grout: ANSI A118.6, pig, white.
B. Color: No. 41 "Onion", color.
C. Provide grout from the Grout Collection as manufactured by Maple, equal to Maple Krackpot.

- 2.4 ACCESSORIES
A. Threshold: Extruded aluminum.
2.5 MORTAR MIX AND GROUT MIX
A. Mix and proportion cementitious materials for site-mixed mortar bed and bond coat.
2.6 STRUCTURE MEMBRANE
A. Mix and proportion cementitious materials for site-mixed mortar bed and bond coat.

PART 3 - EXECUTION

- 3.1 EXAMINATION
A. Verify that surface is ready to receive work.
3.2 PREPARATION
A. Protect surrounding work from damage or defilement.
B. Vacuum clean surface and damp clean.

- 3.3 INSTALLATION
A. Install tile and grout in accordance with TCA Handbook, F113.03 installation method.
B. Install smooth non-slip floor as scheduled on the drawings.
C. Lay tile in pattern indicated. Do not interrupt tile pattern through openings. Place thresholds at locations indicated.
D. Cut and fit tile to penetrations through tile. Form corners and bases neatly. Align floor and base joints.
E. Place tile joints uniform in width. Adjust to vary joint spacing in stockroom and regardless of the governmental agencies having jurisdiction.
F. Grout control joints at 48" o.c., suspend from structure with hanger wire spaced at 48" o.c. Install additional hanger wire at ends of each installation member and at right hand corners.
G. Space cross base at 24" o.c., connect to main base. Space sub cross base to cross base at 24" o.c. Rest main and cross base on wall moldings.

- 3.4 CLEANING
A. Clean work under provisions of 03105.
B. Clean tile and grout surface.

- 3.5 PROTECTION OF FINISHED WORK
A. Protect finished work under provisions of Section 01540.
B. Do not permit traffic over finished floor surface for 4 days after installation.

SECTION 0510 - CERAMIC TILE

PART 1 - GENERAL

- 1.1 SUMMARY
A. This Section includes the following:
1. Floor tile.
2. Grout and tile setting.
B. Related sections include the following:
1. Ceramic Tiles.
2. Submittals.
C. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of repairs, correction, control, and expansion joints.
D. Samples:
1. Each type, composition, color, and finish of tile.
2. Assembled samples with grout joint for each type, composition, color, finish of tile.

- PART 2 PRODUCTS
2.1 MANUFACTURERS
A. In other Part 2 articles where tile table introduce lists, the following requirements apply for product selection:
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work items, but are not limited to, the products specified in the Construction Documents.
2. SETTING AND GROUTING MATERIALS
A. Manufacturers:
1. Atlas Minerals & Chemicals, Inc.
2. Bostel Products Corporation
3. Bostel, W.R., Company
4. Bostel
5. C-Cure
6. Custom Building Products
7. DMP, Inc.
8. Jans
9. Laticrete International, Inc.
10. MAPET Corporation
11. Southern Grout & Mortars, Inc.
12. Summitville Tile, Inc.
13. TEC Specialty Products Inc.
B. Dry Set Portland Cement Mortar (Thin Set): ANSI A118.1.
1. For wall applications, provide non-sagging mortar.
C. Water-Dispersible, Tile-Setting Epoxy Adhesive: ANSI A118.3.
D. Grout Adhesive: ANSI A118.1, Type 1.
E. Standard Sanded Cement Grout: ANSI A118.6, color as indicated.

- PART 3 EXECUTION
3.1 PREPARATION
A. Remove coatings, including drying compounds and other substances that contain soap, wax, oil, or silicone, and are incompatible with tile setting materials.
B. Fill cracks, holes, and depressions with flowable leveling and patching compound according to tile setting material manufacturer's written instructions.
C. Remove protrusions, bumps, and ridges by sanding or grinding.
3.2 INSTALLATION, GENERAL
A. TCA Installation Guidelines: TCA's Handbook for Ceramic Tile Installation. Comply with TCA installation methods indicated in Ceramic Tile Installation.
B. Accurately trim substrates and returns. Perform cutting and drilling of tile without marking visible surfaces. Grind cut edges of finished tile, floor, or base to finish. Fit tile closely to electrical outlets, piping, vents, and other penetrations to permit, colors, or covers overlap tile.
C. Jointing Pattern: Lay tile in grid pattern as indicated on Construction Documents. Align joints when adjoining tile on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
D. Install tile floor with the following joint widths:
1. Floor Tile: 1/4 inch (3.2 mm).
2. Grout Joint: 1/16 inch (1.6 mm).

- 3.3 PROTECTION OF FINISHED WORK
A. Protect finished work under provisions of Section 01540.
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B. Do not permit traffic over finished floor surface for 4 days after installation.

- 3.4 CLEANING
A. Clean work under provisions of 03105.
B. Clean tile and grout surface.

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13. TEC Specialty Products Inc.
B. Dry Set Portland Cement Mortar (Thin Set): ANSI A118.1.
1. For wall applications, provide non-sagging mortar.
C. Water-Dispersible, Tile-Setting Epoxy Adhesive: ANSI A118.3.
D. Grout Adhesive: ANSI A118.1, Type 1.
E. Standard Sanded Cement Grout: ANSI A118.6, color as indicated.

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A. Remove coatings, including drying compounds and other substances that contain soap, wax, oil, or silicone, and are incompatible with tile setting materials.
B. Fill cracks, holes, and depressions with flowable leveling and patching compound according to tile setting material manufacturer's written instructions.
C. Remove protrusions, bumps, and ridges by sanding or grinding.
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A. TCA Installation Guidelines: TCA's Handbook for Ceramic Tile Installation. Comply with TCA installation methods indicated in Ceramic Tile Installation.
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D. Install tile floor with the following joint widths:
1. Floor Tile: 1/4 inch (3.2 mm).
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- 3.3 PROTECTION OF FINISHED WORK
A. Protect finished work under provisions of Section 01540.
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11. Southern Grout & Mortars, Inc.
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B. Dry Set Portland Cement Mortar (Thin Set): ANSI A118.1.
1. For wall applications, provide non-sagging mortar.
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A. Remove coatings, including drying compounds and other substances that contain soap, wax, oil, or silicone, and are incompatible with tile setting materials.
B. Fill cracks, holes, and depressions with flowable leveling and patching compound according to tile setting material manufacturer's written instructions.
C. Remove protrusions, bumps, and ridges by sanding or grinding.
3.2 INSTALLATION, GENERAL
A. TCA Installation Guidelines: TCA's Handbook for Ceramic Tile Installation. Comply with TCA installation methods indicated in Ceramic Tile Installation.
B. Accurately trim substrates and returns. Perform cutting and drilling of tile without marking visible surfaces. Grind cut edges of finished tile, floor, or base to finish. Fit tile closely to electrical outlets, piping, vents, and other penetrations to permit, colors, or covers overlap tile.
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D. Install tile floor with the following joint widths:
1. Floor Tile: 1/4 inch (3.2 mm).
2. Grout Joint: 1/16 inch (1.6 mm).

SECTION 0510 - CERAMIC TILE

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. Work indicated: Provide acoustical ceilings where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.
1.2 QUALITY ASSURANCE
A. Use experienced crews of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the installation requirements and the methods needed for proper performance of the work of this Section.
B. Qualification of Installer: Minimum of 3 previous project installations of comparable size.
C. Highest Quality Control:
1. Maximum Field Spread: UL/ASTM E834 25.
2. Single-Drop Method 5.
2.1 PRODUCTS
2.1.1 GRID SYSTEM
A. Provide a complete system of supporting members, anchors, wall corners, adapters for light fixtures and grids, and accessories of every type required for a complete suspended "T" and system of the arrangements shown on the Drawings, and complying with pertinent requirements of independent Laboratories, Inc., and the governmental agencies having jurisdiction. (Non-ferrous)
B. Provide a "T" and system, aluminum, minimum weight, 15/16" wide color.
C. Hanger Wire: Minimum 12 gauge, galvanized, self-annealed, mild steel wire.
D. Acceptable Manufacturers:
1. For the purpose of these specifications, the following are acceptable manufacturers and products:
a. Produx F20 Series, by Armstrong World Industries, (717) 397-0611.
b. 180 Series, by Chicago Metal Co., (708) 563-4600.
c. ZXA Series, by U.S.G. Interiors, Inc. (888) 834-2071.

- 2.2 ACCESSORIES
A. Vinyl Floor Ceiling base shall be Slope pattern, vinyl floor gypsum wall panels, white color, nominal 3/4" thick, 24" x 24" square.
2. For the purpose of these specifications, the following are acceptable manufacturers and products:
a. Color: No. 41 "Onion", color.
b. Clean Room VI, by Armstrong World Industries, (717) 397-0611.
c. Ecture Vinyl Panels, by Chicago Metallic Corp., (708) 963-4600.

- 1. Ceiling tile shall be minimum 5/8" lay in panels, color per finish schedule, nominal 3/4" thick, 24" x 24", 15/16" thick, 24" x 24" square.
2. For the purpose of these specifications, the following are acceptable manufacturers and products:
a. First Figures, Second Look, Inc. TFL, color per finish schedule, by Armstrong.
2.3 OTHER MATERIALS
1. Provide other materials, not specifically described but required for a complete and proper installation, as indicated by the Contractor subject to the approval of the Owner's Representative.
2. Acceptable Manufacturers:
1. Provide label walling as required by pertinent codes and regulations.
2. Secure label walling to structural members. Secure right angle to the direction of the panel and four ways in edge calling areas.
3. Provide hold down clips for ceiling brackets in stockroom and regardless of the governmental agencies having jurisdiction.
4. Make all joints with a tolerance of one 1/1000 and straight with tolerance of one 1/1000.
5. Space main base at 48" o.c., suspend from structure with hanger wire spaced at 48" o.c. Install additional hanger wire at ends of each installation member and at right hand corners.
6. Space cross base at 24" o.c., connect to main base. Space sub cross base to cross base at 24" o.c. Rest main and cross base on wall moldings.

- 3.3 CLEANING UP
A. Clean work under provisions of 03105.
B. Clean tile and grout surface.

- 3.4 CLEANING UP
A. Clean work under provisions of 03105.
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- 3.5 PROTECTION OF FINISHED WORK
A. Protect finished work under provisions of Section 01540.
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- PART 3 EXECUTION
3.1 PREPARATION
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B. Fill cracks, holes, and depressions with flowable leveling and patching compound according to tile setting material manufacturer's written instructions.
C. Remove protrusions, bumps, and ridges by sanding or grinding.
3.2 INSTALLATION, GENERAL
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- 3.3 PROTECTION OF FINISHED WORK
A. Protect finished work under provisions of Section 01540.
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- 3.4 CLEANING
A. Clean work under provisions of 03105.
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3.2 INSTALLATION, GENERAL
A. TCA Installation Guidelines: TCA's Handbook for Ceramic Tile Installation. Comply with TCA installation methods indicated in Ceramic Tile Installation.
B. Accurately trim substrates and returns. Perform cutting and drilling of tile without marking visible surfaces. Grind cut edges of finished tile, floor, or base to finish. Fit tile closely to electrical outlets, piping, vents, and other penetrations to permit, colors, or covers overlap tile.
C. Jointing Pattern: Lay tile in grid pattern as indicated on Construction Documents. Align joints when adjoining tile on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
D. Install tile floor with the following joint widths:
1. Floor Tile: 1/4 inch (3.2 mm).
2. Grout Joint: 1/16 inch (1.6 mm).

- 3.3 PROTECTION OF FINISHED WORK
A. Protect finished work under provisions of Section 01540.
B. Do not permit traffic over finished floor surface for 4 days after installation.

- 3.4 CLEANING
A. Clean work under provisions of 03105.
B. Clean tile and grout surface.

- 3.5 PROTECTION OF FINISHED WORK
A. Protect finished work under provisions of Section 01540.
B. Do not permit traffic over finished floor surface for 4 days after installation.

SECTION 0510 - CERAMIC TILE

PART 1 - GENERAL

- 1.1 SUMMARY
A. This Section includes the following:
1. Floor tile.
2. Grout and tile setting.
B. Related sections include the following:
1. Ceramic Tiles.
2. Submittals.
C. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of repairs, correction, control, and expansion joints.
D. Samples:
1. Each type, composition, color, and finish of tile.
2. Assembled samples with grout joint for each type, composition, color, finish of tile.

- PART 2 PRODUCTS
2.1 MANUFACTURERS
A. In other Part 2 articles where tile table introduce lists, the following requirements apply for product selection:
1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work items, but are not limited to, the products specified in the Construction Documents.
2. SETTING AND GROUTING MATERIALS
A. Manufacturers:
1. Atlas Minerals & Chemicals, Inc.
2. Bostel Products Corporation
3. Bostel, W.R., Company
4. Bostel
5. C-Cure
6. Custom Building Products
7. DMP, Inc.
8. Jans
9. Laticrete International, Inc.
10. MAPET Corporation
11. Southern Grout & Mortars, Inc.
12. Summitville Tile, Inc.
13. TEC Specialty Products Inc.
B. Dry Set Portland Cement Mortar (Thin Set): ANSI A118.1.
1. For wall applications, provide non-sagging mortar.
C. Water-Dispersible, Tile-Setting Epoxy Adhesive: ANSI A118.3.
D. Grout Adhesive: ANSI A118.1, Type 1.
E. Standard Sanded Cement Grout: ANSI A118.6, color as indicated.

- PART 3 EXECUTION
3.1 PREPARATION
A. Remove coatings, including drying compounds and other substances that contain soap, wax, oil, or silicone, and are incompatible with tile setting materials.
B. Fill cracks, holes, and depressions with flowable leveling and patching compound according to tile setting material manufacturer's written instructions.
C. Remove protrusions, bumps, and ridges by sanding or grinding.
3.2 INSTALLATION, GENERAL
A. TCA Installation Guidelines: TCA's Handbook for Ceramic Tile Installation. Comply with TCA installation methods indicated in Ceramic Tile Installation.
B. Accurately trim substrates and returns. Perform cutting and drilling of tile without marking visible surfaces. Grind cut edges of finished tile, floor, or base to finish. Fit tile closely to electrical outlets, piping, vents, and other penetrations to permit, colors, or covers overlap tile.
C. Jointing Pattern: Lay tile in grid pattern as indicated on Construction Documents. Align joints when adjoining tile on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
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- 3.4 CLEANING
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