

SECTION 09330

QUARRY TILE

PART 1 GENERAL

1.01 SUMMARY

A. Related Sections:

1. 03300 - Cast-In-Place Concrete.
2. 07900 - Joint Sealers.
3. 09310 - Ceramic Tile.
4. 15421 - Drains and Cleanouts.

1.02 REFERENCES

- A. American National Standards Institute ANSI A108.3.
- B. Tile Council of America, Inc. (TCA): Handbook for Ceramic Tile Installation.

1.03 SUBMITTALS

- A. Submit properly identified product data including material specifications, printed installation and mixing instructions and maintenance recommendations for quarry tile and accessories specified.
- B. Submit samples of the following for review and selection by A/E.
 1. Tile manufacturer's full color and pattern range for each type of tile required.
 2. Grout manufacturer's full color range samples.
 3. Each type of trim shape and special shape required, if requested.
 4. Submit sample board showing full range of colors available for review by the A/E.

1.04 QUALITY ASSURANCE

- A. Comply with US Department of Commerce - Simplified Practice Recommendations, R61.
- B. Regulatory Requirements:

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1. Quarry tile flooring systems shall comply with the minimum slip-resistant coefficient of:
 - a. 0.5 for leveled floors.
 - b. 0.6 for accessible routes such as, but not limited to, interior corridors.
 - c. 0.8 for inclined floors such as, but not limited to, ramps.
2. Non-compliance of slip-resistant coefficient factor will be grounds for removal and disposal of installed flooring system, properly preparing the floor substrate, and installation of required slip-resistant flooring system at no expense to the Board.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver quarry tile in containers to the site with labels intact and seals unbroken.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Quarry Tile:
 1. American Olean.
 2. Summitville Tiles, Inc.
- B. Joint Sealers:
 1. Camkote.
 2. Crest Silcrest.
 3. Macco Silicone Grout Sealer.
 4. Hillyard Onex-Seal.

2.02 MATERIALS

- A. Quarry Floor Tile: Non-slip, rustproof abrasive aggregate surface, 6" x 6" x 1/2" size, pre-paraffined to resist grout staining.
- B. Quarry Base Tile: 5" x 5" x 1/2" inch size, pre-paraffined, with coved bottoms, "thin lip" rounded tops, rounded external corners, and matching quarry floor tile.

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- C. Mortar for Setting Bed: Conventional cement mortar according to referenced specification.
- D. Acid Resistant Epoxy Joint Grout: Formula AAR-110 complying with Tile Council of America specifications for 3-component, dark gray color mix, consisting of a liquid resin, a hardening agent, and an inert filler, that when completely set and hard shall be free from offensive odors.
- E. Color: As selected by A/E.
- F. Marble Thresholds: 2 inch wide standard thickness, color as selected by A/E.

PART 3 EXECUTION

3.01 INSPECTION

- A. Do not proceed with the work of this section until conditions detrimental to the proper and timely completion of the work have been corrected in an acceptable manner.

3.02 INSTALLATION

- A. Install the quarry tile by "Conventional Cement Mortar" method according to the requirements of ANSI A108.3.
 1. Slope quarry tile uniformly to drains as indicated.
 2. Set marble thresholds where indicated or at dissimilar floor finishes with the same material used for setting quarry floor tile.
 3. Expansion Control Joints:
 - a. Install according to recommendations of the TCA handbook of ceramic tile installation.
 - b. Extend joints through the setting bed to the concrete substrate equal in width to the tile grout joints.
 - c. Provide approved solid neoprene filler and approved polysulfide caulking.
 4. Setting Bed Thickness: Place 1-1/4" maximum thickness of setting bed on the concrete substrate, screed and compact.
 5. Follow tile-setter's conventional procedures, laying

quarry tile in pattern indicated with straight lines and uniform joints 3/8" wide.

a. Rake excess setting bed mortar from joints to the depth of the each tile, allowing setting bed to cure for a minimum of 48 hours at 70 degrees F before application of joint grout.

6. Joint Grout:

a. Completely fill grout joints, except expansion control joints, with grout.

b. Remove excess grout from the face of the tile as work progresses to insure a clean, attractive installation.

7. Curing: Cure a minimum of 72 hours at 75 degrees F (plus or minus 5 degrees F) after grouting before cleaning the floor.

8. Cleaning:

a. Upon completion of the entire grouting process, thoroughly clean tile work with diluted acid, while not damaging tile and adjacent surfaces.

b. Replace metal items discolored or items damaged by the diluted acid.

9. Sealing:

a. After curing and properly cleaning the tile work, apply accepted joint sealer according to the sealer manufacturer's recommendations.

b. Keep sealer off adjacent areas specified to receive paint or other coatings or finishes.

10. Protection:

a. Before allowing foot traffic over finished tile surfaces cover the work with a layer of heavy polyethylene film, building paper, or other accepted protective covering.

b. Lay board walkways on areas to be used as passage ways for workers.

11. Replacement: Remove and replace loose, cracked, broken, or otherwise damaged or defaced tile or marble.

END OF SECTION

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