SECTION 09 6519

RESILIENT TILE FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Resilient tile flooring.
2. Grounding tape**.**

B. Related Sections:
1. Division 01: Administrative, procedural, and temporary work requirements.

1.2 REFERENCES

A. ASTM International (ASTM):
1. D2047 - Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
2. D4258 - Standard Practice for Surface Cleaning Concrete for Coating.
3. E648 - Standard Test Method for Flooring Radiant Panel Test.
4. F1066 - Standard Specification for Vinyl Composition Tile.
5. F1344 - Standard Specification for Rubber Floor Tile.
6. F1700 - Standard Specification for Solid Vinyl Floor Tile.
7. F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.

1.3 SUBMITTALS

A. Submittals for Review:
1. Product Data: Provide data on specified products, describing physical and performance characteristics.
2. Samples:
a. Tile: 6 x 6 inch samples showing available colors in each color and pattern.

B. Quality Control Submittals:
1. Certificates of Compliance: Certification from an independent testing laboratory that flooring meets fire hazard classification requirements.

1.2 QUALITY ASSURANCE

A. Installer Qualifications: Minimum 5 experience in work of this Section.

B. Fire Hazard Classification: Class I rated, tested to ASTM E648.

C. Static Coefficient of Friction: Minimum 0.5, tested to ASTM D2047.

1.3 PROJECT CONDITIONS

A. Maintain temperature in spaces to receive flooring between 70 and 90 degrees F for 24 hours before, during, and for minimum 48 hours after installation.

B. Maintain minimum temperature of 55 degrees F after flooring is installed, except as otherwise specified.

1.4 MAINTENANCE

A. Extra Materials: 100 SF of each color and pattern.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers - Vinyl Composition Tile:
1. Armstrong World Industries. (www.armstrong.com)
2. Azrock. (www.azrock.com)
3. Mannington Resilient Floors. (www.mannington.com)
4. Tarkett, Inc. (www.tarkett.com)
5. Or equal

2.2 MATERIALS

A. Vinyl Composition Tile:
1. ASTM F1066, 2 - Through Pattern.
2. Size: 12 x 12 inches x 1/8 inch thick.
3. Color: To be selected from manufacturer's full color range.

2.3 ACCESSORIES

A. Reducer Strips: Solid vinyl or rubber composition, 1 inch wide by tile thickness, tapered, color to match tile.

B. Leveling Compound: White, premixed, latex based.

C. Adhesive:
1. Water based, waterproof, recommended by flooring manufacturer.

D. Grounding Tape: 1/2 inch wide copper tape.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that concrete floors have cured a minimum 28 days and do not exhibit negative alkalinity, carbonization, or dusting.

3.2 PREPARATION

A. Clean substrate; remove loose and foreign matter that could impede adhesion or performance of flooring.

B. Fill cracks, voids, and depressions in substrate with leveling compound.

C. Grind off high spots and projections in substrate; leave smooth and level to 1/4 inch in 10 feet.

D. Test substrate for moisture content to ASTM F1869; do not install flooring until moisture emission level is acceptable to flooring manufacturer.

3.3 INSTALLATION OF TILE

A. Install in accordance with manufacturer's instructions.

B. Mix tile from container to ensure shade variations are consistent when tile is placed.

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C. Spread only enough adhesive to permit installation of materials before initial set.

D. Lay flooring with joints parallel to building lines to produce symmetrical tile pattern.

E. Allow minimum half-size tiles at room or area perimeter.

F. Set flooring in place; press with heavy roller to attain full adhesion.

G. Scribe flooring to walls, columns, cabinets, and other appurtenances to produce tight joints. Ensure that base, trim, plates, or escutcheons will completely cover cut edges.

H. Extend tile into recesses and under equipment.

I. Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.

J. Install grounding tape at static-dissipating flooring in accordance with manufacturer’s instructions. Ground to building ground system.

3.4 INSTALLATION OF REDUCER STRIPS

A. Install where tile stops with edge exposed; set in adhesive.

B. Center strips under doors where flooring terminates at door openings.

C. Install in longest practical lengths; butt ends tight.

D. Scribe to abutting surfaces.

3.5 ADJUSTING

A. Correct tiles that are not seated; replace damaged tiles.

3.6 CLEANING

A. Clean tile , wax, and machine buff in accordance with manufacturer's instructions.

3.7 PROTECTION

A. Do not allow traffic on flooring until adhesive has set.

B. Cover areas subject to traffic with protective covering.

END OF SECTION