



160 South Industrial Blvd.
Calhoun, GA 30701

Section 096519

RESILIENT FLOORING: Petrology

This document is intended as a suggested guide for editing your architectural guide specification.

Mohawk Group will not be held liable for damages arising out of the use of any information or specifications found in this document. Make sure you have the latest publication for this specification.

Product selection and accuracy of all project specifications are the specifier's or designer's responsibility.

PART 1 – GENERAL INFORMATION

1.1 SECTION INCLUDES

- A. This section deals with resilient flooring found in the drawings and schedules of the contract that meet the requirements of this section.
- B. Related Documents: Drawings and general provisions of the contract apply to the work of this section.

1.2 RELATED SECTIONS

Note to Specifier: Delete any sections below not relevant to this project and add others as required.

- A. Division 3 – Concrete: not covered in this section.
- B. Division 6 – Wood and plastic: not covered in this section.
- C. Division 7 – Thermal and humidity protection: not covered in this section.
- D. Division 9 – Other sections containing information related to floor finishes: not covered in this section.

1.3 REFERENCES (INDUSTRY STANDARDS)

- A. ASTM F 710: Practice for Preparing Concrete Floors to Receive Resilient Flooring.
- B. ASTM E 648: Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy
- C. ASTM E 662: Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- D. ASTM F 1869: Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- E. ASTM F 1700: Standard Specification for Solid Vinyl Tile. Class III, Type B Embossed
- F. ASTM 2055: Standard Test Method for Determining Size and Squareness of Resilient Floor Tile by Dial Gauge Method
- G. ASTM F386: Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
- H. ASTM 2199: Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat
- I. ASTM 970: Standard Test for Static Load Limit
- J. ASTM 1914: Standard Test Method for Short-Term Indentation and Residual Indentation of Resilient Floor Covering
- K. ASTM D2047: Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine
- L. ASTM F925: Standard Test Method for Resistance to Chemicals of Resilient Flooring

- M. ASTM F137: Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus
- N. ASTM F1515: Standard Test Method for Measuring Light Stability of Resilient Flooring by Color Change
- O. ASTM F1514: Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color Change

1.4 SUBMITTALS

- A. Provide the product's Technical Specifications data sheet as well as all Installation and Maintenance Instructions.
- B. When required, supply floor drawings and installation plans.
- C. Supply a set of samples measuring at least 3" (7.5 cm) by 6" (15 cm) of the complete range of colors and finishes chosen for the project.
- D. When required, provide Mohawk Group's attestation, certified by an independent laboratory, confirming that the flooring complies with the fire standards of the following tests:
 - 1. ASTM E 648; Critical Radiant Flux: 0.45 watts/cm² or more
 - 2. ASTM E 662; Smoke Density: 450 or less
- E. Provide Mohawk Group's Warranty Certificate.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installer experienced in installation or application of systems similar in complexity to those required for this project, including specific requirements indicated.
- B. In accordance with the technical instructions in the Installation Instructions, use all the accessories recommended by Mohawk Group when installing its flooring.

NOTE TO SPECIFIER: Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how you might specify a mock-up on a large project.

- C. Mock-up: Provide a mock-up for evaluation of surface preparation technique, application workmanship and requirements for expansion control. Do not proceed with remaining work until workmanship, color, sheen and finished appearance are approved by architect.
- D. Follow the instructions specified in the most recent version of Mohawk Group's Installation Instructions.

1.6 DELIVERY, HANDLING, STORAGE

- A. Deliver the flooring to the installation site in Mohawk Group's original packaging. Indicate the project name and handling instructions on the outside of the boxes.
- B. Advise the carrier of any damaged material and indicate it on the packing slip.
- C. Store materials in a flat in a dry, warm, ventilated and weather tight location. Protect flooring products from damage.
- D. Install the flooring after all other finishing work, including painting, have been completed.

1.7 PROJECT CONDITIONS

- A. Store the flooring inside, sheltered from extreme hot or cold temperatures. Place the material on a smooth level floor or where there is uniform solid support in a clean, dry well-ventilated area. Unstack the pallets. The long-term storage temperature must be maintained between 65°F (18°C) and 85°F (29°C). Protect adhesive and flooring material from freezing, extreme heat and direct sun exposure.
- B. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 65°F (18°C) and 85°F (29°C). The pallets should be unstacked 24 hours prior to use.
- C. Afterwards, maintain the room temperature between 55°F (13°C) and 90°F (32°C). Protect the material from direct sources of heat such as air vents and other types of heaters.

- D. Do not install on cement slabs unless they are thoroughly cleaned, level, structurally sound and free from paint, varnish, adhesive, oil, grease, solvent, sealer and curing compounds or other foreign substances that may adversely affect adhesion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. COMPANY

Mohawk Group
160 South Industrial Blvd.
Calhoun, GA 30701
Telephone: 800-554-6637
Fax: 877-244-8054
Website: www.mohawkgroup.com

- B. Manufacturer must have a headquarters in the United States of America.
- C. Alternates shall be in the manufacturer's running line. No special runs, customs or special constructions will be accepted.

2.01 RESILIENT FLOORING DESCRIPTION

A. Characteristics:

1. Floating Luxury Vinyl Tile: Petrology
2. Gauge: .20" (5.0mm)
3. Size: 9" x 59" (235mm x 1505mm)
4. Wear layer: 20 mil (0.5mm)
5. Complies with ASTM F 1700, Class III, Type B (Embossed).
6. Refer to the product's Technical Specifications data sheet for detailed specifications.
7. Choose from any of Mohawk Group's complete line of colors (indicate the item number).
8. Petrology is FloorScore® certified.
9. This product is manufactured in a factory that has ISO 9002 and ISO 14001 certifications.
10. Product must have a minimum of 37% Pre-Consumer and 22% Post-Consumer recycled content.
11. Product must have an enhanced urethane wear layer.

2.02 ADHESIVES

- A. Perimeter glue only with Mohawk Group MS160 Spray adhesive. May also use M95.0 Acrylic adhesive. M95.0 covers 175-225 sf/gallon when applied with the recommended notched trowel. MS160 covers 145-160 sf/22 oz can.

2.2 OTHER MATERIAL

- A. Subfloor repairs: Use a good-quality Portland-based patching compound modified with latex that has a minimal resistance to compression of 3,500 lbs/sq. in. (246 kg/cm²) to fill, smooth or level subfloor imperfections.
- B. Self-levelling underlayment: Use a Portland-based self-levelling underlayment modified with a polymer that has a minimal resistance to compression of 3,500 lbs/sq. in. (246 kg/cm²).

PART 3 – EXECUTION

3.01 SITE INSPECTION

- A. Examine the subfloor before installation to ensure that the surface is clean, dry, smooth, structurally sound and free from foreign substances that may adversely affect adhesion or cause discoloration. Furthermore, ensure that the subfloor is free of adhesive, oil, grease, solvent and other foreign substances that may adversely affect adhesion or alter the appearance or durability of the vinyl flooring.
- B. Verify the surface to ensure there is no powder, scaling or mold. If there is, remove it with a mechanical sander and level with a good-quality cement-based Portland primer.
- C. Never remove residual or other adhesive with chemical adhesive removal products; their use will automatically void the Mohawk product warranty.
- D. Report and rectify all unsatisfactory conditions. Do not start flooring installation until all rectifications have been completed.

3.2 SUBFLOOR PREPARATION

- A. All subfloors should be smooth, flat and dust free with the tolerance not exceeding more than 3/16" in a 10' span. All subfloor and underlayment patching must be performed with a non-shrinking, water-resistant Portland-based patching compound.
- B. Concrete subfloors must be dry, smooth and free from dust, solvent, paint, wax, grease, oil, asphalt sealing compounds and other extraneous materials. The surface must be hard and dense, and free from powder or flaking. The floor should have a moisture reading of less than 95%RH per ASTM F 2170.
- C. New concrete slabs must be thoroughly dry (at least six weeks) and completely cured. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.
- D. Holes, grooves, expansion joints and other depressions must be filled with a Portland-based underlayment and troweled smooth and feathered even with the surrounding surface.
- E. Measure the humidity levels in the cement in compliance with the following standards before installation:
 - 1. ASTM F 2170, Relative Humidity (RH) test using in situ probes. The maximum allowable reading:
 - a. 95% RH for M95.0 Adhesive
 - b. 93% RH for the MS160 Spray Adhesive
 - 2. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. (92.9 sq. m) and one measure for each additional 1,000 sq. ft. (92.9 sq. m).
- F. Installs on slabs with up to 95%RH.
- G. In case of doubt, test the adhesion on the cement subfloor or other surface that will be covered by the flooring. Do the test using the specified flooring and recommended adhesive.
- H. Follow all other subfloor preparation guidelines as outlined in the Mohawk Group installation instructions.

3.3 RESILIENT FLOORING INSTALLATION

- A. Install the flooring according to the latest version of Mohawk Group's Installation Instructions. Use the tools, adhesives, trowel types and procedures recommended in the instructions.
- B. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before and during the installation by maintaining the room temperature between 65°F (18°C) and 85°F (29°C). Afterwards, maintain the temperature between 55°F (13°C) and 90°F (32°C).

3.04 CLEANING AND PROTECTION

- A. Remove all excess adhesive immediately after installation as recommended in Mohawk Group's Installation Instructions.
- B. Before allowing traffic after installation, consult and follow the recommendations in Mohawk Group's Installation Instructions.
- C. Following installation and cleanup, if the work of all other trades has not yet been completed, protect the flooring by laying sheets of non-staining brown Kraft paper and then a layer of plywood sheets (rolls of non-staining heavy cardboard material could also be used for protection).
- D. Follow the instructions in Mohawk Group's Maintenance Instructions when performing initial and regular maintenance procedures.

END OF SECTION 096519

Please note that technical web site documents prevail.

