

**Section 096543**  
**RESILIENT LINOLEUM SHEET FLOORING**

THIS DOCUMENT IS INTENDED AS A SUGGESTED GUIDE FOR CREATING, MODIFYING, OR EDITING YOUR 3-PART ARCHITECTURAL GUIDE SPECIFICATIONS.

TARKETT WILL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY INFORMATION OR SPECIFICATIONS FOUND IN THIS DOCUMENT.

ENSURE THAT YOU HAVE THE LATEST PUBLICATION FOR THIS SPECIFICATION.

THE SPECIFIER OR DESIGNER IS RESPONSIBLE FOR PRODUCT SELECTION AND ACCURACY OF ALL PROJECT SPECIFICATIONS, INCLUDING ANY TARKETT INFORMATION OR SPECIFICATIONS USED.

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**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. Section Includes:
  - 1. Linoleum Sheet Flooring.

**1.3 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. LEED Submittals:
  - 1. Product Data for Credit EQ 4.1: For adhesives, include printed statement of VOC content and chemical components.
- C. Samples for Initial Selection: For each type of product indicated.
- D. Samples for Verification: For each type of product indicated, in manufacturer's standard-size samples of each resilient product color, texture, and pattern required.
- E. Product Schedule: For resilient products. Use same designations indicated on Drawings.

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1.4 QUALITY ASSURANCE

- A. Installation Qualification: Contractors for floor covering installation should be experienced in managing commercial flooring projects and provide professional installers, qualified to install the various flooring materials specified. An installer is “qualified” if trained by Tarkett or a certified INSTALL (International Standards & Training Alliance) resilient floor covering installer.
- B. Mockups: Provide resilient products with mockups specified in other Sections.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by Tarkett, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).

1.6 PROJECT CONDITIONS

- A. Install resilient products after other finishing operations, including painting, have been completed.
- B. Maintain ambient temperatures within range recommended by Tarkett, but not less than 65 deg F (18 deg C) or more than 85 deg F (29 deg C) in spaces to receive resilient products during the following time periods:
  - 1. 48 hours before installation.
  - 2. During installation.
  - 3. 48 hours after installation.
- C. Maintain the ambient relative humidity between 40% and 60% during installation.
- D. Until Substantial Completion, maintain ambient temperatures within range recommended by Tarkett, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).

PART 2 - PRODUCTS

2.1 RESILIENT SHEET FLOORING

Manufacturer:

Tarkett, Inc.

30000 Aurora Rd.

Solon, Ohio 44139

Web: [www.tarketta.com](http://www.tarketta.com)

E-mail: [info@johnsonite.com](mailto:info@johnsonite.com)

Phone: (800) 899-8916

(440) 543-8916

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2.2 LINOLEUM SHEET FLOORING <Insert drawing designation>

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Johnsonite, a Tarkett Company; [Etrusco] [Lenza] [Tonali] or [Veneto].
- B. Sheet Standard: ASTM F2034, Standard Specification for Linoleum Sheet Floor Covering, [Type I, Linoleum sheet with backing].
- C. For **Veneto** Specify Thickness/Wearlayer: [0.080 inch (2.0 mm)] or [0.0100 inch (2.5 mm)] <Insert dimensions>.
- D. For **Etrusco, Lenza, and Tonali** Specify Thickness/Wearlayer: [0.0100 inch (2.5 mm)].
- E. For size specify: [6 ft. 6 inches (2 m)] <Insert dimensions>
- F. Colors and Patterns: [As indicated by manufacturer's designations] [Match Architect's sample] [As selected by Architect from full range of industry colors] <Insert colors and patterns>.
- G. Test data:
  - 1. Flexibility (ASTM F137): Passes
  - 2. Chemical Resistance (ASTM F925): Passes
  - 3. Static Load Limit (ASTM F970): Passes 150 psi
  - 4. Resistance to Heat (ASTM F1514):  $\Delta E \leq 8$
  - 5. Resistance to Light (ASTM F1515):  $\Delta E \leq 8$
  - 6. Static Coefficient of Friction (ASTM D 2047):  $\geq 0.5$  SCOF
  - 7. Flamability (ASTM E648, Critical Radiant Flux): Class 1 ( $\geq 0.45$  W/cm<sup>2</sup>)
  - 8. Limited Commercial Warranty: 5 years

2.3 LINOLEUM ACOUSTICAL SHEET FLOORING <Insert drawing designation>

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Johnsonite, a Tarkett Company; [Veneto Acoustiflor].
- B. Sheet Standard: ASTM F2034, Standard Specification for Linoleum Sheet Floor Covering, [Type III, Linoleum sheet with special backing].
- C. For thickness specify: [0.150 inch (3.8 mm)].
- D. For size specify: [6 ft. 6 inches (2 m)].
- E. Colors and Patterns: [As indicated by manufacturer's designations] [Match Architect's sample] [As selected by Architect from full range of industry colors] <Insert colors and patterns>.
- F. Test data:
  - 1. Flexibility (ASTM F137): Passes
  - 2. Chemical Resistance (ASTM E925): Passes
  - 3. Impact Sound Transmission (ASTM F492): 59 IIC
  - 4. Static Load Limit (ASTM F970): Passes 150 psi
  - 5. Resistance to Heat (ASTM F 1514):  $\Delta E \leq 8$
  - 6. Resistance to Light (ASTM F1515):  $\Delta E \leq 8$
  - 7. Static Coefficient of Friction (ASTM D 2047):  $\geq 0.5$  SCOF
  - 8. Flamability (ASTM E648, Critical Radiant Flux): Class 1 ( $\geq 0.45$  W/cm<sup>2</sup>)

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9. Limited Commercial Warranty: 5 years

2.4 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, cement based or blended hydraulic-cement-based formulation.
- B. Adhesives: As recommended by Tarkett to meet site conditions
  - 1. Tarkett 950 Linoleum Flooring Adhesive
  - 2. Tarkett 975 Two-Part Urethane Adhesive

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.
- B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare substrates according to Tarkett written instructions to ensure proper adhesion of Resilient Flooring.
  - 1. Prepare concrete substrates in accordance with ASTM F 710.
    - a. Concrete floors must be free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening or parting compounds, alkaline salts, excessive carbonation or laitence, mold, mildew, and other foreign materials that may affect dissipation rate of moisture from the concrete, discoloration or adhesive bonding.
    - b. Mechanically remove contamination on the substrate that may cause damage to the resilient flooring material. Permanent and non-permanent markers, pens, crayons, paint, etc., must not be used to write on the back of the flooring material or used to mark the substrate as they could bleed through and stain the flooring material.
    - c. Perform moisture testing as recommended by manufacturer. Proceed with installation only after substrates have been tested and meet the minimum requirements from the manufacturer in accordance with ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride or ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
    - d. A pH test for alkalinity must be conducted on the concrete floor prior to installation with results between 7 and 9. If the test results are not within the acceptable range, then installation must not proceed until the problem has been corrected.
  - 2. Wood subfloors must have a minimum 18" (45.7 cm) of cross-ventilated space beneath the bottom of the joist.

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- a. The floor must be rigid, free of movement.
  - b. Single wood and tongue and groove subfloors should be covered with ¼" (6.4 mm) or ½" (12.7 mm) APA approved underlayment plywood.
    - 1) Use ¼" (6.4 mm) thick underlayment panels for boards with a face width of 3" (76 mm) or less.
    - 2) Use ½" (12.7 mm) thick underlayment panels for boards with a face width wider than 3" (76 mm).
  - c. Do not install over OSB (Oriented Strand Board), particle board, chipboard, lauan or composite type underlayments.
- B. Fill cracks, holes, depressions and irregularities in the substrate with good quality Portland cement based underlayment leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.
- C. Floor covering shall not be installed over expansion joints.
- D. Do not install resilient products until they are same temperature as the space where they are to be installed.
- 1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
- E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.

**3.3 RESILIENT SHEET FLOORING INSTALLATION**

- A. Comply with manufacturer's written instructions for installing resilient sheet flooring.
- B. Resilient Sheet Flooring:
- 1. Install with Tarkett adhesive specified for the site conditions and follow adhesive label for proper use.
  - 2. Install rolls in sequential order following roll numbers on the labels.
  - 3. Reverse non-pattern sheets as referenced in the Tarket Installation Instructions.
  - 4. Roll the flooring in both directions using a 100 pound three-section roller.
  - 5. Vinyl sheet flooring must be welded.  
Note: It is recommended to heat weld seams to provide a more sterile and water tight seam.
  - 6. Tarkett Resilient Sheet Flooring may be flash coved.
    - a. Use Johnsonite CFS-00-A Cove Filler Strip.
    - b. Net fit flooring material into the appropriate Johnsonite cove cap.

**3.4 CLEANING AND PROTECTION**

- A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.
- B. Perform the following operations immediately after completing resilient product installation:
- 1. Remove adhesive and other blemishes from exposed surfaces.
  - 2. Sweep and vacuum surfaces thoroughly.
  - 3. Damp-mop surfaces to remove marks and soil.

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- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
  - 1. No traffic for 24 hours after installation.
  - 2. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.
- D. Wait 72 hours after installation before performing initial cleaning.
- E. A regular maintenance program must be started after the initial cleaning.

END OF SECTION 09.65.43