Johnsonite
A Tarkett Company
THE ULTIMATE FLOORING EXPERIENCE

## Section 09.65.19

# RESILIENT TILE FLOORING INCLUDING VINYL ENHANCED TILE, SOLID VINYL TILE, AND VINYL COMPOSITION TILE

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

JOHNSONITE 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 JOHNSONITE 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. Resilient Tile (Vinyl Enhanced Tile, Solid Vinyl Tile, and Vinyl Composition Tile) Flooring.

B. Related Sections:

### 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**.**

1.4 QUALITY ASSURANCE

A. 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 Johnsonite, 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 Johnsonite, 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 Johnsonite, but not less than 55 deg F (13 deg C) or more than 85 deg F (29 deg C).

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PART 2 - PRODUCTS

2.1 RESILIENT TILE FLOORING

Contact:

| | | |
|---|---|---|
| Johnsonite, Inc. | Phone: | (800) 899-8916 |
| 16910 Munn Road | | (440) 543-8916 |
| Chagrin Falls, Ohio 44023 | Tech: | Ext 9297 |
| Web: www.johnsonite.com | Samples: | Ext 9299 |
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**ENVIRONMENTAL SUSTAINABILITY NOTES:**

**Johnsonite Resilient Tile Flooring**

- Johnsonite offers a RESTART reclamation program for returning unused jobsite scrap
- Vinyl Composition Tiles and Vinyl Enhanced Tiles contain pre consumer and post consumer recycle content
- Solid Vinyl Tiles contain post consumer recycle content
- 100% Recyclable
- SCS FloorScore® Certified and meets California Specifications Section 01350
- Johnsonite facilities are ISO 9001 and ISO 14001 Certified
- Criteria for Vinyl Composition Tile (VCT) regional materials based on manufacturing location at Houston, Texas
- Criteria for Vinyl Enhanced Tile (VET) and Solid Vinyl Tile (SCT) regional materials based on manufacturing location at Florence, Alabama
- For all environmental sustainability information visit ecoScorecard on Johnsonite home page at www.johnsonite.com

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A. Resilient Vinyl Enhanced Tile Flooring

1. [CORTINA STONE] or [COLOR ESSENCE] Specify – Resilient Vinyl Enhanced Tile Flooring with the following physical characteristics:
   a. Meets performance requirements for ASTM F 1066, Standard Specification for Vinyl Composition Floor Tile.
   b. Wear layer/Overall thickness: 1/8" (3.2 mm).
   c. Tile size: 12" x 12" (30.5 x 30.5 cm).
   d. Slip Resistance: ADA Compliant.
   e. Polyurethane Reinforced wear surface with Tritonite Finish.
   f. ASTM F 970, Standard Test Method for Static Load Limit – 400 PSI (modified for higher load).
   g. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm$^2$ or greater, Class I.
   h. Warranty: 10 year Manufacture's Warranty.
   i. Color Essence is available as slip resistant tile.
   j. CortinaStone and Color Essence may be installed with SpraySmart System.

   - For CortinaStone Tile specify (ST ____ [Specify color by number and name])

   - For Color Essence Tile specify (CE ____ [Specify color by number and name])
   - For Color Essence Slip Resistant Tile specify (CE-SR ____ [Specify color by number and name

B. Resilient Solid Vinyl Tile Flooring

1. [CORTINA GRANDE] or [MILANO] or [SOLIDAIR] or [KARIM KOLORS] or [KARIM SHAPES] Specify – Resilient Solid Vinyl Tile Flooring with the following physical characteristics:
   a. Complies with requirements for ASTM F 1700, Class 1, Type A (Type B for slip resistant tile) Standard Specification for Solid Vinyl Floor Tile.
   b. Cortina Grande and Milano are available as slip resistant tile with an embossed surface.
   c. Wear layer/Overall thickness: 1/8" (3.2 mm).
   d. Tile size: 16" x 16" (40.6 x 40.6 cm).
      See Karim Shapes for additional sizes and shapes. Karim Shapes (Node, Tide, Tri, and Hive) are available in Cortina Grande, SolidAir, Milano, and Karim Kolors.
   e. Slip Resistance: ADA Compliant.
   f. ASTM F 970, Standard Test Method for Static Load Limit – 800 PSI (modified for higher load).
   g. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm$^2$ or greater, Class I.
   h. Warranty: 10 year Manufacture's Warranty.
   i. Cortina Grande Milano, SolidAir, and Karim Kolors may be installed with SpraySmart System.

- For Cortina Grande Tile specify (CG ____ [Specify color by number and name])
- For Cortina Grande Slip Resistant Tile specify (CGSR ____ [Specify color by number and name])

- For Milano Tile specify (MI ____ [Specify color by number and name])
- For Milano Slip Resistant Tile specify (MISR ____ [Specify color by number and name])

- For SolidAir Tile specify (HTS ____ [Specify color by number and name])

- For Karim Kolors Tile specify (HTS ____ [Specify color by number and name])

- For Karim Shapes – NODE shape specify:
  For Cortina Grande (NODECG ____ [Specify color by number and name])
  For Milano (NODEMI ____ [Specify color by number and name])
  For SolidAir (NODEHTS ____ [Specify color by number and name])
  For Karim Kolors (NODEKM ____ [Specify color by number and name])

- For Karim Shapes – TIDE shape specify:
  For Cortina Grande (TIDECG ____ [Specify color by number and name])
  For Milano (TIDEMI ____ [Specify color by number and name])
  For SolidAir (TIDEHTS ____ [Specify color by number and name])
  For Karim Kolors (TIDEKM ____ [Specify color by number and name])

- For Karim Shapes – TRI shape specify:
  For Cortina Grande (TRICG ____ [Specify color by number and name])
  For Milano (TRIMI ____ [Specify color by number and name])
  For SolidAir (TRIHTS ____ [Specify color by number and name])
  For Karim Kolors (TRIKM ____ [Specify color by number and name])

- For Karim Shapes – HIVE shape specify:
  For Cortina Grande (HIVECG ____ [Specify color by number and name])
  For Milano (HIVEMI ____ [Specify color by number and name])
  For SolidAir (HIVEHTS ____ [Specify color by number and name])
  For Karim Kolors (HIVEKM ____ [Specify color by number and name])

C. Resilient Vinyl Composition Tile Flooring

1. [CORTINA COLORS AND CORTINA CLASSICS] or [GRANITE] or [THRU-QUARTZ] or [SOLIDS AND FEATURE STRIPS] Specify – Resilient Vinyl Composition Tile Flooring with the following physical characteristics:
   a. Complies with requirements for ASTM F 1066, Class 2 Standard Specification for Vinyl Composition Floor Tile.

b. Wear layer/Overall thickness: 1/8" (3.2 mm).
c. Tile size: 12" x 12" (30.5 x 30.5 cm).
d. Slip Resistance: ADA Compliant.
e. Granite is available as slip resistant tile with an embossed surface.
f. ASTM F 970, Standard Test Method for Static Load Limit – 150 PSI.
g. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm$^2$ or greater, Class I.
h. Warranty: 5 year Manufacture's Warranty.
i. Cortina Colors and Cortina Classics, Granite, Thru-Quartz, and Solids and Feature Strips may be installed with SpraySmart System.

- For Cortina Colors and Cortina Classics Tile specify (V ____ [Specify color by number and name])

- For Granite Tile specify (VL ____ [Specify color by number and name])
- For Granite Slip Resistant Tile specify (SR ____ [Specify color by number and name])

- For Thru-Quartz Tile specify (TQ ____ [Specify color by number and name])

- For Solids Tile specify (VS ____ [Specify color by number and name])

- For Feature Strip 1/8" thick and 24" length specify (FS –
  - Specify width ____ [{A for 1/4"} or {B for 1/2"} or {C for 1"} or {D for 2"} or {F for 4"} or {H for 6"}] –
  - Specify color by number and name ____)

2.2 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation.

B. Adhesives: As recommended by Johnsonite to meet site conditions.
1. Vinyl Enhanced Tile:
   a. Tarkett #100 Clear Thin Spread Adhesive.
   b. Tarkett #940 Two-Part Polyurethane Adhesive.
   c. Tarkett SpraySmart #120 Adhesive (up to 7 pounds moisture \ 85% relative humidity and less than 11 pH).
2. Solid Vinyl Tile:
   a. Tarkett #800 Pressure Sensitive Adhesive.
   b. Tarkett #940 Two-Part Polyurethane Adhesive.
   c. Tarkett SpraySmart #120 Adhesive (up to 7 pounds moisture \ 85% relative humidity and less than 11 pH).

3. Vinyl Composition Tile:
   a. Tarkett #100 Clear Thin Spread Adhesive.
   b. Tarkett #940 Two-Part Polyurethane Adhesive.
   c. Tarkett SpraySmart #122 Adhesive (up to 7 pounds moisture \ 85% relative humidity and less than 11 pH).

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 Johnsonite written instructions to ensure adhesion of Resilient Tile Flooring.
   1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
   2. Remove substrate paint, coatings and other substances that are incompatible with adhesives or contain soap, wax, oil, solvents, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
   3. 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.
   4. Prepare Substrates according to ASTM F 710 including the following:
      a. Moisture Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
         1) Perform anhydrous calcium chloride test, ASTM F 1869. Results must not exceed 5 lbs. Moisture Vapor Emission Rate per 1,000 sq. ft. in 24 hours.
            Special Note: If MVER is greater than 5 lbs. but less than 7 lbs. see requirements for Tarkett SpraySmart Adhesive.

            – or –

         2) Perform relative humidity test using in situ probes, ASTM F 2170. Results must not exceed 80%.
            Special Note: If MVER is greater than 80% but less than 85% see requirements for Tarkett SpraySmart Adhesive.

b. A pH test for alkalinity must be conducted. Results should range between 7 and 9. If the test results are not within the acceptable range of 7 to 9, the installation must not proceed until the problem has been corrected.
Special Note: If pH reading exceeds 9 but less than 11 see requirements for Tarkett SpraySmart Adhesive.

c. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.

5. Wood subfloors must have a minimum 19" (47 cm) of cross-ventilated space beneath the bottom of the joist.
   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" (13 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" (76 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 TILE FLOORING INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient tile flooring.

B. Vinyl Enhanced Tile or Vinyl Composition Tile or Solid Vinyl Tile Flooring:
   1. Install with Johnsonite/Tarkett adhesive specified for the site conditions and follow adhesive label for proper use.
   2. Follow Johnsonite's recommendation for Quarter Turn tiles.
   3. Open enough cartons of floor tiles to cover each area, and mix tile to ensure shade variations do not occur within any one area.
   4. Roll the flooring in both directions using a 100 pound three-section roller.

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.

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.

D. No traffic for 24 hours after installation.
   Special Note: When Tarkett SpraySmart Adhesive is used traffic may be allowed immediately after installation

E. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.
   Special Note: When Tarkett SpraySmart Adhesive is used traffic may be allowed immediately after installation

F. Cover resilient products until Substantial Completion.

G. Wait 72 hours after installation before performing initial cleaning.
   Special Note: When Tarkett SpraySmart Adhesive is used maintenance may be started immediately after installation.

H. A regular maintenance program must be started after the initial cleaning.
   Special Note: When Tarkett SpraySmart Adhesive is used maintenance may be started immediately after installation.

END OF SECTION 09.65.19