Johnsonite
A Tarkett Company
THE ULTIMATE FLOORING EXPERIENCE

Section 09.65.19

RESILIENT TILE FLOORING INCLUDING SOLID VINYL AND LINOLEUM FLOOR 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.

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 (Solid Vinyl & Linoleum) 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. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.

1. Critical Radiant Flux Classification: Class I, not less than 0.45 watts per square centimeter.

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 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

Manufacturer:

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
E-mail: info@johnsonite.com	Fax:	(440) 543-8920

ENVIRONMENTAL SUSTAINABILITY NOTES:

Johnsonite Resilient Tile Flooring

- Johnsonite offers a RESTART reclamation program for returning unused jobsite scrap
- Contains pre consumer recycle content
- 100% Recyclable
- SCS FloorScore® Certified and meets California Specifications Section 01350
- Johnsonite facilities are ISO 9001 and ISO 14001 Certified
- For all environmental sustainability information visit ecoScorecard on Johnsonite home page at www.johnsonite.com

A. Resilient Vinyl Tile Flooring

1. [OPTIMA] or [GRANIT] Specify –Resilient Vinyl Tile Flooring with the following physical characteristics:
   a. Complies with requirements for ASTM F 1700 Standard Specification for Solid Vinyl Floor Tile, Class 1, Type A
   b. iQ construction: no wax, no finish for life of product
   c. Tile size: 24" x 24" (61 x 61 cm)
   d. Wear layer/Overall thickness: .080" (2.0 mm)
   e. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring of 0.6 or greater
   f. ASTM F 970, Standard Test Method for Static Load Limit – 250 PSI
   g. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I

   - For OPTIMA Tile specify (OPT-JT ____ [Specify color by number and name])
   - For GRANIT Tile specify (GRT-JT ____ [Specify color by number and name])

2. [MELODIA] or [ARIA] Specify – Resilient Vinyl Tile Flooring with the following physical characteristics:
   a. Complies with requirements for ASTM F 1700 Standard Specification for Solid Vinyl Floor Tile, Class 1, Type A
   b. Non-directional pattern
   c. Reinforced wear layer
   d. Tile size: 24" x 24" (61 x 61 cm)
   e. Wear layer/Overall thickness: .080" (2.0 mm)
   f. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring of 0.6 or greater
   g. ASTM F 970, Standard Test Method for Static Load Limit – 250 PSI
   h. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I

   - For MELODIA Tile specify (MLD- JT ____ [Specify color by number and name])
   - For ARIA Tile specify (ARI- JT ____ [Specify color by number and name])

3. CONTRACT PLUS Specify – Resilient Vinyl Tile Flooring with the following physical characteristics:
   a. Complies with requirements for ASTM F 1700 Standard Specification for Solid Vinyl Floor Tile, Class 1, Type A
   b. Non-directional pattern
   c. Reinforced wear layer
   d. Tile size: 24" x 24" (61 x 61 cm)
   e. Wear layer/Overall thickness: .080" (2.0 mm)
   f. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring of 0.6 or greater
   g. ASTM F 970, Standard Test Method for Static Load Limit – 250 PSI
   h. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I

   - For CONTRACT PLUS Tile specify (CON- JT ____ [Specify color by number and name])

4. I.D. PREMIER Specify – Resilient Vinyl Tile Flooring with the following physical characteristics:
   a. Complies with requirements for ASTM F 1700 Standard Specification for Solid Vinyl Floor Tile, Class III, Type B
   b. Constructed on a unique structure built with solid homogeneous calendared layers reinforced with non woven glass fiber combined with a polymeric base
   c. PVC wear layer thickness: .028" (0.7 mm)
   d. Overall thickness: .098" (2.50 mm)
   e. Tile size specify:
      1) Tile: 18.5" x 18.5" (47.1 x 47.1 cm)
      2) Plank: 37" x 6.16" (94.2 x 15.7 cm)
      3) Plank: 37" x 3.08" (94.2 x 7.85 cm)

f. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring of 0.6 or greater
g. ASTM F 970, Standard Test Method for Static Load Limit – 250 PSI
h. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I

- For I.D. PREMIER 18.5" x 18.5" Tile specify (IDP-T ____ [Specify color by number and name])
- For I.D. PREMIER 37" x 6.16" Plank specify (IDP-P ____ [Specify color by number and name]-6)
- For I.D. PREMIER 37" x 3.08" Plank specify (IDP-P ____ [Specify color by number and name]-3)

5. SPACE Specify – Resilient Vinyl Tile Flooring with the following physical characteristics:
   a. Complies with requirements for ASTM F 1700 Standard Specification for Solid Vinyl Floor Tile, Class III, Type B
   b. Heterogeneous printed vinyl floor covering on glass fiber non woven with anti-migration barrier
   c. PVC foam backing
   d. Polyurethane reinforcement
   e. Fungi and bacteriostatic built in treatment
   f. Reinforced wear layer
   g. Tile size: 19.68" x 19.68" (50 x 50 cm)
   h. Wear layer thickness: .032" (.81 mm)
   i. Overall thickness: .157" (42.0 mm)
   j. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring of 0.6 or greater
   k. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I

   - For SPACE Tile specify (SPC-T ____ [Specify color by number and name])

B. Resilient Linoleum Tile Flooring
   1. VENETO HARMONIUM xf Specify – Resilient Linoleum Tile Flooring with the following physical characteristics:
      a. Complies with requirements for ASTM F 2195 Standard Specification for Linoleum Floor Tile
      b. Homogeneous layer of oxidized linseed oil and natural resins mixed with wood or cork flour and limestone
      c. Wear layer/overall thickness: .100" (2.5 mm)
      d. xf finish for reduced maintenance
      e. Tile size: 19.49" x 19.49" (49.5 x 49.5 cm)
      f. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring of 0.6 or greater
      g. ASTM F 970, Standard Test Method for Static Load Limit – 150 PSI

h. ASTM E 648, Standard Test method for Critical Radiant Flux of 0.45 watts/cm^2 or greater, Class I

- For VENETO Tile specify (VEN-T ____ [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. Resilient Vinyl and Linoleum Floor Tile
   a. Johnsonite 925 Resilient Vinyl Flooring Adhesive
      (For use with I.D. Premier & Space)
   b. Johnsonite 926 Resilient Vinyl Tile Flooring Adhesive
      (For use with iQ Optima/Granit, Aria, Melodia, & Contract Plus)
   c. Johnsonite 955 Linoleum Tile Adhesive
   d. Johnsonite 975 Two-Part Urethane Adhesive
      (For use with all vinyl planks and tiles)
   e. Johnsonite 130 SpraySmart Adhesive
      (I.D. Premier & Space)
   f. Johnsonite 150 SpraySmart Adhesive
      (iQ Optima/Granit, Aria, Melodia, & Contract Plus)

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.

      – or –

      2) Perform relative humidity test using in situ probes, ASTM F 2170. Must not exceed 80% (For SpraySmart adhesive, 85% RH limit).
   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 (For SpraySmart adhesive, 11 pH limit), the installation must not proceed until the problem has been corrected.
   c. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.
5. Wood subfloors must have a minimum 18" (46 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" (12.7 mm) APA approved underlayment plywood.
      1) Use ¼" (6.4 mm) thick underlayment panels for boards with a face width of 3" (7.6 cm) or less.
      2) Use ½" (12.7 mm) thick underlayment panels for boards with a face width wider than 3" (7.6 cm).
   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. Resilient Vinyl and Linoleum Tile Flooring:
   1. Install with Johnsonite adhesive specified for the site conditions and follow adhesive label for proper use.

2. Follow Johnsonite's recommendation for Quarter Turn tiles.
3. 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.

E. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.

F. Cover resilient products until Substantial Completion.

G. Wait 72 hours after installation before performing initial cleaning.

H. A regular maintenance program must be started after the initial cleaning.

END OF SECTION 09.65.19