



Section 09.65.19.34

RESILIENT TILE FLOORING INCLUDING DEFIANT RUBBER FLOOR TILE

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

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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 Rubber Tile 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.

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- 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

Manufacturer:

Johnsonite, Inc.

16910 Munn Road

Chagrin Falls, Ohio 44023

Web: www.johnsonite.com

E-mail: info@johnsonite.com

Phone: (800) 899-8916

(440) 543-8916

Tech: Ext 9297

Samples: Ext 9299

Fax: (440) 543-8920

ENVIRONMENTAL SUSTAINABILITY NOTES:

Johnsonite Defiant Rubber Tile


- Johnsonite offers a RESTART reclamation program for returning jobsite scrap
- Defiant Rubber Tile Flooring can be used in areas subject to grease and oil
- Phthalate, chlorine and halogen free
- Possible LEED contributions for Johnsonite Defiant Rubber Tile Flooring include MR2; and MR5
- For all environmental sustainability information visit ecoScorecard on Johnsonite home page at www.johnsonite.com

A. Resilient Rubber Tile Flooring



1. DEFIANT OIL AND GREASE RESISTANT Tile specify – Defiant Resilient Rubber Tile Flooring with the following physical characteristics:
 - a. Complies with requirements for ASTM F 1344 Standard Specification for Rubber Floor Tile, Class 1-A and 1-B.
 - b. Manufactured from a homogeneous composition of 100% synthetic rubber.
 - c. Specially formulated for areas exposed to oil and grease.
 - d. Overall thickness: 1/8" [.125" (3.17 mm)].
 - e. Tile size specify:
 - 1) Solid Color Raised Round 24" x 24" (61 cm x 61 cm).
 - 2) Solid Color Hammered textured 24" x 24" (61 cm x 61 cm).
 - 3) Prima Marbleized Hammered textured 12" x 12" (30.5 cm x 30.5 cm).
 - 4) Speckled Color Raised Round 24" x 24" (61 cm x 61 cm).
 - 5) Speckled Color Hammered textured 24" x 24" (61 cm x 61 cm).
 - f. Oil Resistant: ASTM D 471, Effect of Liquids on Rubber Properties.
 - g. ASTM D 2240 Standard Test Method for Rubber Property—Durometer Hardness: 65 Shore A.

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- h. ASTM D 3389 Standard Test Method for Coated Fabrics Abrasion Resistance: < 1.00 gram weight loss.
 - i. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring: Exceeds Federal Standards and A.D.A. requirements for slip-resistant.
 - j. ASTM F 970, Standard Test Method for Static Load Limit – passes at 250 PSI.
 - k. ASTM E 648, Standard Test method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source – equal to or greater than 0.45 watts/cm².
 - l. Johnsonite offers a RESTART reclamation program for returning jobsite scrap
 - m. Defiant Rubber Tile Flooring can be used in areas subject to grease and oil
 - n. Phthalate, chlorine and halogen free 
 - o. Possible LEED contributions for Johnsonite Defiant Rubber Tile Flooring include MR2; and MR5
- For DEFIANT SOLID COLOR RAISED ROUND specify (GRRT ____ [specify color by number and name])
 - For DEFIANT SOLID COLOR HAMMERED specify (GRHRT ____ [specify color by number and name])
 - For DEFIANT MARBLEIZED COLOR HAMMERED specify (GRHRTP ____ [specify color by number and name])
 - For DEFIANT SPECKLED COLOR HAMMERED specify (GRHRTSP ____ [specify color by number and name])
 - For DEFIANT SPECKLED COLOR RAISED ROUND specify (GRRTSP ____ [specify color by number and name])

2.2 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified,  and cement based or blended hydraulic-cement-based formulation.
- B. Adhesives: As recommended by Johnsonite to meet site conditions.
 1. Rubber Floor Tile.
 - a. Johnsonite #965 Flooring and Tread Adhesive.
 - b. Johnsonite #975 Two-Part Urethane Adhesive. 
 - c. Johnsonite #996 Two-Part Epoxy 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.

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- 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%.
 - 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.
 - c. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer.
 - 5. Wood subfloors must have a minimum 18" (45.7 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" (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.

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- 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 Rubber Floor Tile:
 - 1. Install with Johnsonite adhesive specified for the site conditions and follow adhesive label for proper use.
 - 2. Do not Quarter Turn tile.
 - 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 