

### Roundel®, CityScape™ & Circulinity™ Rubber Floor Tile

#### 1. PROPRIETARY PRODUCT/MANUFACTURER

1.1. **Proprietary Product:** Resilient Rubber Floor Tiles - A.D.A. Compliant

1.2. **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
Email: info@johnsonite.com	Fax:	(440) 543-8920

1.3. **Proprietary Product Description:**

1.3.1. **Construction:** Johnsonite Rubber Floor Tiles are manufactured from a homogeneous composition of 100% synthetic rubber, high quality additives, and colorants to meet the performance requirements of ASTM F 1344, Class 1-A and 1-B Standard Specification for Rubber Floor Tile.

Johnsonite Rubber Floor Tiles are designed for interior applications only and not recommended for environments where the product will be exposed to animal fats, vegetable oils, or petroleum based materials (e.g.: commercial kitchens). Johnsonite rubber floor tiles require the use of chair pads or chairs with casters designed for resilient flooring in work stations or similar environments. Johnsonite rubber floor tiles are not warranted against cuts or lack of protection under caster wheels designed for carpeting or other types of flooring.

1.3.2. **Styles:**

**RT-Rd (Solid color) or RTSP-Rd (Speckled color)** -

Roundel Round Raised Disk Pattern Rubber Tile, .125" (3.17 mm) and .155" (4.00 mm) thicknesses, Specify RTSP for speckled tile. (Not available in 12" x 12")

**RT-Sq (Solid color) or RTSP-Sq (Speckled color)** -

Roundel Square Raised Disk Pattern Rubber Tile, .125" (3.17 mm) and .155" (4.00 mm) thicknesses, specify RTSP for speckled tile (Not available in 12" x 12")

**RET (Solid color)** - Roundel Smooth Accent Rubber Tile, .100" (2.54 mm) and .130" (3.30 mm) thicknesses

**C-Smooth** - Smooth Surface Rubber Landing Tile, .125" (3.17 mm) thickness

**CN-Diamond** - Diamond Surface Rubber Landing Tile, .187" (4.76 mm) thickness

**HRT** - Hammered Surface Rubber Floor Tile, .125" (3.17 mm) thickness, specify HRTSP for speckled tile

**WRT** - Weathered (Grained Surface) Rubber Floor Tile, .125" (3.17 mm) thickness, Specify WRTSP for speckled tile

**BMRT**-Bamboo Rubber Floor Tile, .125" (3.17 mm) thickness, (Not available in 12" x 12")

**CBMRT** - Chopped Bamboo Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

**CRT** - Cubis Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

**ART** - Artistic Square Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

**PRT** - Pebbles Rubber Floor Tile, .125" (3.17 mm) thickness (Not available in 12" x 12")

**CFL** - Circulinity **Fast Lane™** Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

**CRB** - Circulinity **Round-A-Bout™** Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

**CTR** - Circulinity **Tricycle™** Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

**CTT** - Circulinity **Tic-Tac-Toe™** Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

**CEF** - Circulinity **Effervescent™** Rubber Tiles, .125" (3.17 mm) thickness (Not available in 12" x 12")

**CSH** - CityScape Hammered Surface, Speckled Rubber Floor Tile, 2 mm (.080") thickness, 12" x 12" (30.5 cm x 30.5 cm), 52 tiles per carton [(52 sq. ft.), (4.8 sq. m.)], 24" x 24" (61 cm x 61 cm), 12 tiles per carton [(48 sq. ft), (4.4 sq m)]

1.3.3. **Physical Characteristics:**

**Tile Size and Packaging:**

- 24" x 24" (61 cm x 61 cm), .125" and .100" thick – 8 tiles per carton [32 ft² (2.9 m²)]
- 24" x 24" (61 cm x 61 cm), .155" and .130" thick – 6 tiles per carton [24 ft² (2.2 m²)]
- 12" x 12" (30.5 cm x 30.5 cm), 40 tiles per carton 40 ft² (3.7 m²)

#### 2. PRODUCT PERFORMANCE AND TECHNICAL DATA

- **Hardness:** ASTM D 2240 – Not less than 85 Shore A
- **Abrasion Resistance:** ASTM D 3389 <1.0 gm weight loss
- **Slip Resistance:** ASTM D 2047 – Meets or Exceeds a static coefficient of friction of 0.8
- **Color Heat Stability:** ASTM F 1514 < 8.0 ΔE
- **Acoustical:** ASTM E- 492 Impact Insulation Class – 40 IIC (Test performed with 1/8" thick tiles)
- **Static Load Limit:** ASTM F 970 – 250 PSI
- **Fire Resistance:**
  - ASTM E 648/NFPA 253 (Critical Radiant Flux), Class 1
  - ASTM E 662/NFPA 258 (Smoke Density), less than 450

- **Chemical Resistance:** ASTM F 925, Passed - 5% Acetic acid, 70% Isopropyl alcohol, Sodium hydroxide solution (5% NaOH), Hydrochloric acid solution (5% HCl), Sulfuric acid solution (5% H<sub>2</sub>SO<sub>4</sub>), Household ammonia solution (5% NH<sub>4</sub>OH), Household bleach (5.25% NaOCl), Disinfectant cleaner (5% active phenol)

### 3. INSTALLATION

The installation of Johnsonite Rubber Floor Tiles should not begin until the work of all other trades has been completed, especially overhead trades. The areas to receive flooring materials shall be clean and fully enclosed. The area should be maintained at a minimum of 65° F and a maximum of 75° F for 48 hours before the installation, during the installation and for 48 hours after the installation is completed. The flooring materials and adhesives shall be conditioned in the same manner.

Wood subfloors must have a minimum 18" (47 cm) of cross-ventilated space between the bottom of the joist and ground. Exposed earth crawl spaces should be sealed with a polyethylene moisture barrier. Subfloors should meet local and national building codes. Trade associations, such as the APA "The Engineered Wood Association", offer structural guidelines for meeting various code requirements. Single Wood and Tongue and Groove subfloors should be covered with 1/4" (6.4 mm) or 1/2" (13 mm) APA approved underlayment plywood. Use 1/4" (6.4 mm) thick underlayment panels for boards with a face width of 3" (76 mm) or less. For boards wider than 3" (76 mm) face width use 1/2" (13 mm) underlayment panels. Countersink nail heads and fill depressions, joints, cracks, gouges, and chipped edges with a good quality Portland cement based patching compound. Do not install over OSB (Oriented Strand Board), particle board, chipboard, lauan, or composite type underlayments.

Concrete shall be prepared utilizing ASTM F 710, Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring. Floors shall be smooth, flat, permanently dry, clean, and free of all foreign material such as dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt, and old adhesive residue. Floor covering shall not be installed over expansion joints.

It is essential that moisture tests be taken on all concrete floors regardless of age and grade level. One test should be conducted for every 1,000 sq. ft. of flooring and the results not exceed 5 lbs. per 1,000 sq. ft. in 24 hours when tested in accordance with ASTM F 1869 Standard Test method for Measuring Vapor Emission Rate of Concrete Subfloor using Anhydrous Calcium Chloride or 80% when tested accordance with ASTM F 2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using *in situ* Probes. Surface pH of the concrete should range between 7 and 9. If the tests results exceed the limitations, the installation must not proceed until the problem has been corrected.

### 3.1. Adhesives:

- **Johnsonite #965** Flooring & Tread Adhesive:  
**Porous Substrates:** 1/16" X 1/16" X 1/16" square-notched trowel (Approximately 125 - 150 sq ft /gal)  
**Non-Porous Substrates:** 1/16" X 1/16" X 1/16" V-notched trowel (Approximately 150 - 175 sq ft /gal)  
**Important:** This adhesive is substrate porosity sensitive. Determine if the substrate is porous or non-porous prior to application of the adhesive and installation of the flooring products and follow the appropriate instructions.
- **Johnsonite #996** Two-Part Epoxy Adhesive: 1/16" X 1/16" X 1/16" square-notched trowel (Approximately 125 - 150 sq. ft/gal)
- **Johnsonite #975** Two-Part Urethane Adhesive: 1/16" X 1/16" X 1/16" square-notched trowel (Approximately 125 - 150 sq. ft/gal)
- **Installation Manual:** Refer to Johnsonite rubber floor tiles Installation Instructions for complete installation details.

### 4. AVAILABILITY AND COST

Available through authorized Johnsonite distributors nationwide.

### 5. WARRANTY

Limited 5 year warranty for 2 mm and .125" (3.17 mm) rubber tiles and limited 10 year warranty for .155" (4 mm) rubber tiles. For complete details, contact Johnsonite or an authorized Johnsonite distributor.

### 6. MAINTENANCE

72 hours after installation is completed, initial maintenance procedures must be implemented in accordance with manufacturer's requirements. Refer to Johnsonite Rubber Tile Maintenance Instructions for complete maintenance details.

### 7. TECHNICAL SERVICES

**Samples:** Submittal samples for verification and approval available upon request from Johnsonite. Samples shall be submitted in compliance with the requirements of the Contract Documents. Accepted and approved samples shall constitute the standard materials which represent materials installed on the project.

For current Installation and Maintenance Instructions, Product Specifications, and other technical data, visit us on the web at [www.johnsonite.com](http://www.johnsonite.com) or contact Johnsonite at 1-800-899-8916.