Rubber Stair Treads

1. PROPRIETARY PRODUCT/MANUFACTURER

1.1. Proprietary Product: Resilient Rubber Stair Treads A.D.A., Visually-Impaired, and California Title 24 Compliant

1.2. Manufacturer:

Johnsonite, Inc.	Phone	(800) 899-8916
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1.3. Proprietary Product Description:

1.3.1. Construction: Johnsonite Rubber Stair Treads are manufactured from a homogeneous composition of 100% synthetic rubber, high quality additives, and colorants to meet the performance requirements of ASTM F-2169 Standard Specification for Resilient Stair Treads, Type TS, Class 1 and 2, Group 1 and 2. All Johnsonite Stair Treads are available with a 2" (5.08 cm) wide strip of contrasting color to comply with A.D.A., Visually-Impaired, and California Title 24 requirements. Standard formulation exceeds ASTM E 648 Class 1 Flammability requirements.

1.3.2. Styles:

- RTR-RD & VIRTR-RD (Visually Impaired) - Roundel Round Raised Disk Pattern Rubber Stair Tread with Integrated Riser, 20" (51 cm) overall length, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VIRTR-RD with 2" (5.0 cm) wide contrasting color grit tape insert

  VIRTRS-RD with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIRTRP-RD with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- RTR-SQ & VIRTR-SQ (Visually Impaired) - Roundel Square Raised Disk Pattern Rubber Stair Treads with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VIRTR-SQ with 2" (5.0 cm) wide contrasting color grit tape insert

  VIRTRS-SQ with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIRTRP-SQ with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- HTR & VIHTR (Visually Impaired) - Hammered Surface Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VIHTR with 2" (5.0 cm) wide contrasting color grit tape insert.

  VIHTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIHTRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- BMTR & VIBMTR (Visually Impaired) - Bamboo Surface Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VIBMTR with 2" (5.0 cm) wide contrasting color grit tape insert

  VIBMTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIBMTRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- CUTR & VICUTR (Visually Impaired) - Cubis Surface Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VICUTR with 2" (5.0 cm) wide contrasting color grit tape insert.

  VICUTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VICUTRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- CFLTR & VICFLTR (Visually Impaired) - Fast Lane Surface Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VICFLTR with 2" (5.0 cm) wide contrasting color grit tape insert.

  VICFLTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VICFLTRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- FRPATR & VIFPATR - Rice Paper Texture Rubber Stair Tread with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VIFRPATR with 2" (5.0 cm) wide contrasting color grit tape insert.

  VIFRPATRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIFRPATRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- FRPAT & VIFRPAT (Visually Impaired) - Rice Paper Texture Rubber Stair Tread, 2" (5.08 cm) hinged, square nose configuration, .210" (5.33 mm) to .113" (3.89 mm) tapered 12.25" (33 cm) tread depth

  VIFRPAT with 2" (5.0 cm) wide contrasting color grit tape insert.

  VIFRPATS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIFRPATP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- HMT & VIHMT (Visually Impaired) - Roundel Hammered Pattern Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth

  VIHMT with 2" (5.0 cm) wide contrasting color grit tape insert

  VIHMTS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIHMTP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- HMTD & VIHMTD (Visually Impaired) - Roundel Hammered Pattern Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 14" (35.6 cm) tread depth

  VIHMTD with 2" (5.0 cm) wide contrasting color grit tape insert

  VIHMTDS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIHMTDP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- RH-RD & VIRH-RD (Visually Impaired) - Roundel Round Raised Disk Pattern Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth

  VIRH-RD with 2" (5.0 cm) wide contrasting color grit tape insert

  VIRHS-RD with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIRHP-RD with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- RH-SQ & VIRH-SQ (Visually Impaired) - Roundel Square Raised Disk Pattern Rubber Stair Treads, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth

  VIRH-SQ with 2" (5.0 cm) wide contrasting color grit tape insert

  VIRHS-SQ with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VIRHP-SQ with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- BMT & VIBMT (Visually Impaired) - Bamboo Surface Texture Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth
  - VIBMT with 2" (5.0 cm) wide contrasting color grit tape insert

    VIBMTS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

- CUT & VICUT (Visually Impaired) - Cubis Surface Texture Rubber Stair Tread, 2" (5.08 cm) hinged square nose configuration, .210" (5.33 mm) to .113" (2.87 mm) tapered 12-1/4" (31.12 cm) tread depth

  VICUT with 2" (5.0 cm) wide contrasting color grit tape insert.

  VICUTS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

- CN – (Sq & Rd) Heavy Duty Diamond Rubber Stair Treads, 2" (5.08 cm) square nose or round nose configuration [designed for 3/4" (19 mm) stair nose radius], tapered from 0.240" (6.1 mm) to 0.140" (3.6 mm), 13" (33.02 cm) tread depth.

  VICN with 2" (5.0 cm) wide contrasting color grit tape insert.

  VICNS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VICNP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- CNTR & VICNTR (Visually Impaired) - Heavy Duty Diamond Rubber Stair Treads with Integrated Riser, 2" (5.08 cm) hinged, square nose configuration, 0.240" (6.1 mm) to 0.125" (3.2 mm) taper, 13" (33 cm) tread depth with 7" (17.8 cm) integral riser

  VICNTR with 2" (5.0 cm) wide contrasting color grit tape insert.

  VICNTRS with 2" (5.0 cm) wide contrasting solid rubber color insert strip

  VICNTRP with 2" (5.0 cm) wide contrasting marbleized rubber color insert strip

- GS Heavy Duty Smooth Rubber Stair Treads, Square nose configuration 1-7/8" (4.76 cm), 1/4" (6.35 mm) to 1/8" (3.17mm) tapered 13-1/4" (33.66 cm) tread depth

- G Heavy Duty Smooth Safe-T-Grip Rubber Stair Treads, Square nose configuration 1-7/8" (4.76 cm), 1/4" (6.35 mm) to 1/8" (3.17mm) tapered 13-1/4" (33.66 cm) tread depth, with two 1" wide grit tape inserts

- VIG Visually Impaired Heavy Duty Smooth Stair Treads, Square nose configuration 1-7/8" (4.76 cm), 1/4" (6.35 mm) to 1/8" (3.17mm) tapered 13-1/4" (33.66 cm) tread depth, with a 2" (5.0 cm) wide contrasting color grit tape or solid color rubber insert.

- S Service Weight Rubber Stair Treads, Square nose configuration is 1-5/8" (4.66 cm) with a hinge, 3/16" (4.76 mm) to 1/8" (3.17 mm) tapered 13-1/4" (33.66cm) tread depth. [Available with a Visually Impaired (VIS) 2" (5.0 cm) wide contrasting color grit tape or solid color rubber insert.]

- SG Sur-Grip Rubber Stair Treads Square nose configuration 1-5/8" (4.66 cm), 1-5/16" (3.33 cm) diameter 1/4" (6.35 mm) to 1/8" (3.17 mm) tapered 12-1/4" (31.12 cm) tread depth [Available with a Visually Impaired (VISG) 2" (5.0 cm) wide contrasting color grit tape or solid color rubber insert.]

- SA Service Weight Safe-T-Grip Rubber Stair Treads 1-5/8" (4.66 cm) square nose configuration, 3/16" (4.76 mm) to 1/8" (3.17 mm) tapered 13-1/4" (33.66 cm) tread depth, Two 1" (2.5 cm) wide grit tape inserts.

1.3.3. Physical Characteristics:
Lengths: 3', 3-1/2', 4', 4-1/2', 5', and 6' (.91 m, 1.07 m, 1.22 m, 1.37 m, 1.52 m, and 1.83 m) [Note: All VIRH-RD Series also available in 7 ft. (2.13 m) and
8 ft. (2.44 m) lengths] [Note: All VIRTR-RD and SQ. pattern also available in 7 ft. (2.13 m), 8 ft. (2.44 m), and 9 ft. (2.74 m) lengths]

2. PRODUCT PERFORMANCE AND TECHNICAL DATA

- Tensile Strength: ASTM D 412 - 1200 psi
- Hardness: ASTM D 2240 - Not less than 85 Shore A
- Abrasion Resistance: ASTM D 3389 – less than 1 gram weight loss
- Slip Resistance: ASTM D 2047 – Meets or Exceeds a static coefficient of friction of 0.8
- Fire Resistance:
  ASTM E 648/NFPA 253 (Critical Radiant Flux): Class 1
  ASTM E 662/NFPA 258 (Smoke Density), less than 450

3. INSTALLATION

Johnsonite flooring and adhesives must be site conditioned at room temperature for 48 hours prior to, during, and after installation. Room temperature must be maintained between 65° and 85°F (18° and 30°C) with HVAC system operating. A minimum temperature of 55°F (13°C) must be maintained afterwards. The ambient relative humidity should be between 40% and 60%.

All concrete subfloors must be tested for moisture and pH (alkalinity). Moisture testing must be conducted in accordance with ASTM F 2170 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using *in situ* Probes" or ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.

Results must not exceed 80% when testing to ASTM F 2170 or exceed 5 lbs. per 1,000 sq. ft. in 24 hours when testing to ASTM F 1869.

If the tests results exceed the limitations, the installation must not proceed until the problem has been corrected.

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.

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.

Terrazzo and Ceramic floor surface must be thoroughly sanded to remove all glaze and waxes. Remove or replace all loose tiles and clean the grout lines. Use a Portland cement based leveling compound to fill all grout lines and other depressions.

Steel floor surface must be mechanically abraded to assist with the adhesive bond. The floor must be cleaned to remove all dirt, rust and other contaminants. When applying adhesive the non-porous installation instructions must be followed.

3.1. Adhesives:

Johnsonite 965 Flooring & Tread Adhesive:
Porous Substrates: Approximately 125 to 150 sq ft /gal
Non-Porous Substrates: Approximately 150 to 175 sq ft /gal

Johnsonite 946 Premium Contact Bond Adhesive
Application: Brush or roller
Coverage: 1 kg. Unit covers 24-36 sq. ft.

Johnsonite 930 Two-Part Epoxy Caulking Compound

Application - Gun, knife, or 13-1/2 ounce cartridge (Use Johnsonite 530 dual-cartridge dispenser gun with cartridge)
Coverage: Approx. 250 linear ft/gal or 50 linear with a 1/4" diameter bead per 30 ounce cartridge

4. AVAILABILITY AND COST

Available through authorized Johnsonite distributors nationwide.

5. WARRANTY

Limited 5 year warranty against defects in manufacturing and workmanship. 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 Stair Tread 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 or contact Johnsonite at 1-800-899-8916.