



## Section 09.65.13.23

# RESILIENT RUBBER STAIR TREADS WITHOUT RISER

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 Rubber Stair Tread without Riser.

#### 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, including 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.

## Section 09.65.13.23

# RESILIENT RUBBER STAIR TREADS WITHOUT RISER

- 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).

## Section 09.65.13.23

# RESILIENT RUBBER STAIR TREADS WITHOUT RISER

## PART 2 - PRODUCTS

### 2.1 RESILIENT RUBBER STAIR TREADS WITHOUT RISER

Manufacturer:		
Johnsonite, Inc.	Phone	(800) 899-8916
16910 Munn Road		(440) 543-8916
Chagrin Falls, Ohio 44023	Tech:	Ext 9297
Web: <a href="http://www.tarkettna.com">www.tarkettna.com</a>	Samples:	Ext 9299
E-mail: <a href="mailto:info@johnsonite.com">info@johnsonite.com</a>	Fax:	(440) 543-8920

#### ENVIRONMENTAL SUSTAINABILITY NOTES:

##### Johnsonite Resilient Rubber Stair Treads without Riser

- Johnsonite offers a RESTART reclamation program for returning jobsite scrap
- Raw materials are phthalate, chlorine and halogen-free
- Possible LEED credit contributions for Stair Treads include MR2, MR4, MR5, and EQ4.3
- 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.tarkettna.com](http://www.tarkettna.com)

#### A. Rubber Stair Tread:

JOHNSONITE RUBBER STAIR TREAD WITHOUT RISER specify – Rubber Stair Tread without Riser with the following physical characteristics:

- a. Manufactured from a homogeneous composition of 100% synthetic rubber.
- b. Complies with requirements for ASTM F 2169 Standard Specification for Resilient Stair Treads, Type TS, Class 1 and 2, Group 1 and 2.
- c. Hardness: ASTM D 2240 – Not less than 85 Shore A.
- d. Abrasion Resistance: ASTM D 3389 – less than 1 gram weight loss.
- e. ASTM D 2047, Standard Test Method for Static Coefficient of Friction of Polish- Coated Flooring of 0.6 or greater.
- f. ASTM E 648, Standard Test Method for Critical Radiant Flux of 0.45 watts/cm<sup>2</sup> or greater, Class I.
- g. Tread without riser.
- h. Visually Impaired treads meet ADA and are California Title 24 Accessibility requirements.

## Section 09.65.13.23

# RESILIENT RUBBER STAIR TREADS WITHOUT RISER

- i. Visually Impaired treads will have 2" wide co-extruded contrasting color insert or 2" wide contrasting color grit tape insert.
1. Solid Color Standard Rubber Treads without Riser
- For Heavy Duty Safe-T-Grip surface, solid color without riser, 1 7/8" height hinged Square Nose, tapering 1/4" to 1/8", 13 1/4" tread depth with two 1" wide grit tape inserts, tread length 3', 3.5', 4', 4.5', 5', or 6'
    - Specify (G –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', or 6'] \_\_\_\_\_)
  - For Heavy Duty Smooth surface, solid color without riser, 1 7/8" height Square Nose, tapering 1/4" to 1/8", 13 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', or 6'
    - Specify (GS –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', or 6'] \_\_\_\_\_)
  - For Service Weight Safe-T-Grip surface, solid color without riser, 1 5/8" height Square Nose, tapering 3/16" to 1/8", 13 1/4" tread depth with two 1" wide grit tape inserts, tread length 3', 3.5', 4', 4.5', 5', or 6'
    - Specify (SA –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', or 6'] \_\_\_\_\_)
  - For Service Weight Smooth surface, solid color without riser, 1 5/8" height Square Nose, tapering 3/16" to 1/8", 13 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', or 6' ○ Specify (S –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', or 6'] \_\_\_\_\_)
  - For Sur-Grip surface, solid color without riser surface, 1 5/8" height Square Nose, tapering 1/4" to 1/8", 12 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', or 6'
    - Specify (SG –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', or 6'] \_\_\_\_\_)
  - For Raised Round surface, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (RH –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8'] \_\_\_\_\_ –
    - Specify 'Round Pattern')
  - For Raised Square surface, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (RH –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8'] \_\_\_\_\_ –
    - Specify 'Square Pattern')

## Section 09.65.13.23

### RESILIENT RUBBER STAIR TREADS WITHOUT RISER

- For Hammered surface, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (HMT –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_)
  - For Hammered surface, extended depth, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 14" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (HMTD –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_)
  - For Heavy Duty Diamond surface, solid color without riser, 2" height hinged Square Nose or Round Nose [configured for 3/4" stair nose radius], tapering .210" to .140", 12" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (CN –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
    - Specify [Square Nose – SQ] or [Round Nose – RD]\_\_\_\_\_)
2. Speckled Color Standard Rubber Treads without Riser
- For Raised Round surface, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8' [Raised Round Speckled Color is special order – non-returnable]
    - Specify (RHSP –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
    - Specify 'Round Pattern')
  - For Raised Square surface, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (RHSP –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
    - Specify 'Square Pattern')
  - For Hammered surface, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (HMTSP –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_)
  - For Hammered surface, extended depth, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 14" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify (HMTDSP – Specify color by number and name\_\_\_\_–

## Section 09.65.13.23

### RESILIENT RUBBER STAIR TREADS WITHOUT RISER

- Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_)
- For Heavy Duty Diamond surface, speckled color without riser, 2" height hinged Square Nose or Round Nose [configured for 3/4" stair nose radius], tapering .210" to .140", 13" tread depth, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
  - Specify (CNSP –
  - Specify color by number and name\_\_\_\_\_–
  - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
  - Specify [Square Nose – SQ] or [Round Nose – RD]\_\_\_\_\_)
- 3. Visually Impaired Solid Color Standard Rubber Treads without Riser with Contrasting Color Insert
  - For Heavy Duty Smooth surface, visually impaired, solid color without riser, 1 7/8" height Square Nose, tapering 1/4" to 1/8", 13 1/4" tread depth with 2" contrasting color grit tape insert, tread length 3', 3.5', 4', 4.5', 5, or 6'
    - Specify (VIG –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5, or 6']\_\_\_\_\_)
  - For Service Weight Smooth surface, visually impaired, solid color without riser, 1 5/8" height Square Nose, tapering 3/16" to 1/8", 13 1/4" tread depth with 2" contrasting color grit tape insert, tread length 3', 3.5', 4', 4.5', 5, or 6'
    - Specify (VIS –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5, or 6']\_\_\_\_\_)
  - For Sur-Grip surface, visually impaired, solid color without riser surface, 1 5/8" height Square Nose, tapering 1/4" to 1/8", 12 1/4" tread depth with 2" contrasting color grit tape insert, tread length 3', 3.5', 4', 4.5', 5, or 6'
    - Specify (VISG –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5, or 6']\_\_\_\_\_)
  - For Raised Round surface, visually impaired, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert or 2" contrasting Prima color insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8' [Raised Round Speckled Color is special order – non-returnable]
    - Specify ([VIRH for 2" contrasting color grit tape insert] or [VIRHS for 2" contrasting solid color rubber insert] or [VIRHP for 2" contrasting Prima color rubber insert] –
    - Specify color by number and name\_\_\_\_\_–
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
    - Specify 'Round Pattern')
  - For Raised Square surface, visually impaired, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert or 2" contrasting Prima color insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify ([VIRH for 2" contrasting color grit tape insert] or [VIRHS for 2" contrasting solid color rubber in-

## Section 09.65.13.23

### RESILIENT RUBBER STAIR TREADS WITHOUT RISER

- sert] or [VIRHP for 2" contrasting Prima color rubber insert] –
- Specify color by number and name \_\_\_\_\_ –
  - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8'] \_\_\_\_\_ –
  - Specify 'Square Pattern')
- For Hammered surface, visually impaired, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert or 2" contrasting Prima color insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify ([VIHMT for 2" contrasting color grit tape insert] or [VIHMTS for 2" contrasting solid color rubber insert] or [VIHMTP for 2" contrasting Prima color rubber insert] –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8'] \_\_\_\_\_)
  - For Hammered surface, visually impaired, extended depth, solid color without riser, 2" height hinged Square Nose, tapering .210" to .113", 14" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert or 2" contrasting Prima color insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify ([VIHMTD for 2" contrasting color grit tape insert] or [VIHMTDS for 2" contrasting solid color rubber insert] or [VIHMTP for 2" contrasting Prima color rubber insert] –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8'] \_\_\_\_\_)
  - For Heavy Duty Diamond surface, visually impaired, solid color without riser, 2" height hinged Square Nose or Round Nose [configured for 3/4" stair nose radius], tapering .210" to .140", 13" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert or 2" contrasting Prima color insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify ([VICN for 2" contrasting color grit tape insert] or [VICNS for 2" contrasting solid color rubber insert] or [VICNP for 2" contrasting Prima color rubber insert] –
    - Specify color by number and name \_\_\_\_\_ –
    - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8'] \_\_\_\_\_ –
    - Specify [Square Nose – SQ] or [Round Nose – RD] \_\_\_\_\_)
4. Visually Impaired Speckled Color Standard Rubber Treads without Riser with Contrasting Color Insert
- For Raised Round surface, visually impaired, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
    - Specify ([VIRHSP for 2" contrasting color grit tape insert] or [VIRHSPS for 2" contrasting solid color rubber insert] –

## Section 09.65.13.23

### RESILIENT RUBBER STAIR TREADS WITHOUT RISER

- Specify color by number and name\_\_\_\_\_–
- Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
- Specify 'Round Pattern')
- For Raised Square surface, visually impaired, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
  - Specify ([VIRHSP for 2" contrasting color grit tape insert] or [VIRHSPS for 2" contrasting solid color rubber insert] –
  - Specify color by number and name\_\_\_\_\_–
  - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
  - Specify 'Square Pattern')
- For Hammered surface, visually impaired, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 12 1/4" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
  - Specify ([VIHMTSP for 2" contrasting color grit tape insert] or [VIHMTSPS for 2" contrasting solid color rubber insert] –
  - Specify color by number and name\_\_\_\_\_–
  - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_)
- For Hammered surface, visually impaired, extended depth, speckled color without riser, 2" height hinged Square Nose, tapering .210" to .113", 14" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
  - Specify ([VIHMTDSP for 2" contrasting color grit tape insert] or [VIHMTDSPS for 2" contrasting solid color rubber insert] –
  - Specify color by number and name\_\_\_\_\_–
  - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_)
- For Heavy Duty Diamond surface, visually impaired, speckled color without riser, 2" height hinged Square Nose or Round Nose [configured for 3/4" stair nose radius], tapering .210" to .140", 13" tread depth with 2" contrasting color grit tape insert or 2" wide contrasting solid color rubber insert, tread length 3', 3.5', 4', 4.5', 5', 6', 7', or 8'
  - Specify ([VICNSP for 2" contrasting color grit tape insert] or [VICNSPS for 2" contrasting solid color rubber insert] –
  - Specify color by number and name\_\_\_\_\_–
  - Specify length [3', 3.5', 4', 4.5', 5', 6', 7', or 8']\_\_\_\_\_–
  - Specify [Square Nose – SQ] or [Round Nose – RD]\_\_\_\_\_)



## Section 09.65.13.23

# RESILIENT RUBBER STAIR TREADS WITHOUT RISER

### 2.2 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, Portland cement based formulation manufactured and warranted by a reputable manufacturer.
- B. Adhesives: as recommended by Johnsonite to meet site conditions.
  - 1. Johnsonite 965 Flooring and Tread Adhesive
  - 2. Johnsonite 946 Premium Contact Bond Adhesive
  - 3. Johnsonite 975 Two-Part Urethane Adhesive
  - 4. Johnsonite 996 Two-Part Epoxy
  - 5. PowerTape kit (Do not use with angled backed stair risers)
- B. Stair Tread and Nose Filler: Johnsonite #930 Two-Part Epoxy Caulking Compound to fill nosing substrates that do not conform to tread contours.

### 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 manufacturer's written instructions to ensure adhesion of resilient products.
  - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
  - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, 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 –

## Section 09.65.13.23

### RESILIENT RUBBER STAIR TREADS WITHOUT RISER

- 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 steps/substrates:
    - a. The substrate must be rigid, free of movement.
    - b. Single wood and tongue and groove substrate should be covered with 1/4" (6.4 mm) or 1/2" (12.7 mm) APA approved underlayment plywood.
      - 1) Use 1/4" (6.4 mm) thick underlayment panels for boards with a face width of 3" (76 mm) or less.
      - 2) Use 1/2" (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.
  - 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 STAIR TREAD AND RISER INSTALLATION
- A. Comply with manufacturer's written instructions for installing resilient accessories.
  - B. Resilient Stair Tread and Nosing:
    1. Use Johnsonite #930 Epoxy Caulking Compound to strengthen nosing and fill irregularities in substrates to conform to tread nosing.
    2. Tightly adhere to substrates throughout length of each piece.
    3. For treads installed as separate, equal-length units, install to produce a flush joint between units.
- ### 3.4 CLEANING AND PROTECTION
- A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.

## Section 09.65.13.23

### **RESILIENT RUBBER STAIR TREADS WITHOUT RISER**

- 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.

END OF SECTION 09.65.13.23