

SECTION 09 65 13
RESILIENT STAIR TREADS

CSI 3-PART **SHORT-FORM** GUIDE SPECIFICATION
USE FOR OUTLINE OR DD SPECIFICATION ISSUES.
EDIT TO SUIT PROJECT

PART 1 - GENERAL

1.1 SUMMARY

- A. Work of this Section consists of resilient PVC Stair Treads and accessories including, but not limited to:
 - 1. C.I. TAKIRON Indoor Outdoor **Stair Treads**
 - 2. Accessories
 - a. Adhesives
 - b. Nose Caulk
 - c. Cleaning solutions
 - d. Finish top coatings

1.2 SUBMITTALS

- A. Product Data per SECTION 013000 or 013300: Submit manufacturer's printed descriptions for each specified product.
- B. Shop Drawings per SECTION 013000 or 013300: Submit keyed location plans, plans indicating resilient stair tread type, layout, pattern direction, edge transitions, columns, doorways, enclosing partitions, built-in furniture, cabinets, cutouts, expansion and control joints, and attachment requirements.
- C. Samples per Section 013000 or 013300: Submit printed color charts or material chain for Initial Selection; and two (2) 4" samples of each product for Final Selection.
- D. Quality Assurance Submittals per SECTION 014000: Test and Evaluation Reports, and Qualification Statements.

NOTE: Edit LEED Requirements below to suit project.

- E. Sustainable Design (USGBC LEED®) Submittals: Submit the following in accordance with the requirements of SECTION 018113, LEED REQUIREMENTS:
 - 1. LEED Credit MR, Materials & Resources. Submit completed LEED 2009-NC v.3 Submittal Templates, and other required paperwork as follows:
 - a. MR 4.1: Recycled Content: 10 Percent (post-consumer + 1/2 pre-consumer)
 - 1). Submit product data indicating percentage by weight of recycled content with a statement indicating costs for each.
 - b. MR 6: Rapidly Renewable Materials: 2.5 percent of the total value of the building materials in the project.
 - 1). Submit the product name, material manufacturer, total product cost for each tracked material, total product cost for each tracked material, percentage of product by weight, for each material that meets the rapidly renewable criteria.
 - 2. LEED Credit EQ, Indoor Environmental Quality. Submit completed LEED 2009-NC v.3 Submittal Templates and required paperwork as follows:
 - a. EQ 4.1: Low Emitting Materials, Adhesives & Sealants, VOC Data
 - 1). Submit manufacturers' product data for construction adhesives and sealants, including printed statement of VOC content and MSDS Sheets.
 - b. IEQ 4.3: Low Emitting Materials, Carpet and Resilient Flooring Systems

- 1). Submit manufacturer's product data for systems that includes printed statement of VOC content.

NOTE: Coordinate and edit to the correct Section number below.

- F. Closeout Submittals per SECTION 017000 or 017800, unless noted otherwise.
1. Operation and Maintenance Data: Including, but not limited to, methods for maintaining installed products and precautions against cleaning materials with methods detrimental to finishes and performance.
 2. Executed Warranty Documentation: Manufacturers' material warranties and installers workmanship warranty.
 3. Record Documents: Drawings, Specifications, and Product Data.

NOTE: Edit LEED Requirements below to suit project.

4. Sustainable Design Closeout Documentation: Submit completed USGBC LEED® Submittal Worksheet Templates for the following credits:
 - a. MR 4.1
 - b. EQ 4.1, EQ 4.3

NOTE: Edit percentage below to suit scope of project.

- G. Maintenance Material Submittals - Extra Materials: Submit no less than five (5) percent additional of each type and pattern of stair tread used.
- 1.3 QUALITY ASSURANCE
- A. Regulatory Requirements: Class I Critical Radiant Flux Classification per ASTM E648 or NFPA 253.
- B. Qualifications:
1. Manufacturer: A company with a minimum ten (10) years' experience in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance. A single source manufacturer supplying both product and adhesive.
 - a. Company shall be ISO 9001 Certified.
 - b. Company shall be ISO 14001 Certified.
 2. Installer / Applicator: Perform installation with skilled, experienced, and trained workmen with demonstrated ability to install Takiron products supervised by trained personnel who shall have a minimum three (3) years successful experience in installations of similar size and scope.
 3. Testing Agency: An independent testing agency with the experience and capability to conduct the testing indicated, meeting requirements of ISO/IEC Standard 17025 or ASTM E699 and ASTM E329.
- C. Source Limitations: Obtain primary resilient stair treads through one source from a single manufacturer.
1. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.
- 1.4 DELIVERY, STORAGE, AND HANDLING
- A. Delivery, Storage and Handling per industry guidelines, product manufacturer guidelines, and SECTION 016000 [Material Handling & Subfloor Preparation Guide](#).
- 1.5 WARRANTY
- A. Manufacturer Warranty. Provide manufacturer's limited warranty to be free from defects in material and workmanship, under normal use and service, to repair or replace all defective sheet flooring. [Product Warranty](#)

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer List: Subject to compliance with requirements, provide products by the following:
1. C.I. TAKIRON, a flooring manufacturer represented by CBC AMERICA LLC, 2000 Regency Parkway, Cary, NC 27518; Telephone: 919.230.8700; E-mail: technical@cbcflooring.com; website: www.cbcflooring.com
 2. Substitution Limitations: No substitutions permitted because of the specific attributes listed in sections 2.2, 2.3 and 2.4
- B. Product Options
1. Flooring Type: TAKIRON Stair Treads
 - a. **TAKIRON STAIR TREADS:** Class I per ASTM E648
 - 1). Size: 4' x 19.69" by 0.10 inches (1220 mm x 500 mm x 2.5mm)
 - 2). Size: 6' X 19.69" by 0.10 inches (1828 mm x 500 mm x 2.5mm)
 - b. Color and Pattern: [The Collection](#)
 2. Accessories
 - a. Underlayment leveling compound per SECTION 035416
 - b. Expansion joints per SECTIONS 079200 and 079513
 - c. Interior & Non-Wet Area Adhesive
 - 1). CBC 5001 High Performance Resilient Flooring Adhesive
 - 2). CBC Opti Tape Site applied tape adhesive
 - d. Wet Area & Exterior Adhesive
 - 1). CBC 951 2-Part Epoxy Floor Covering Adhesive for Indoor (wet area) and Outdoor Installations
 - e. Wet Area & Exterior Accessory
 - 1). Henkel Teroson MS 939NA or equivalent edge sealant for Indoor (wet area) and Outdoor Installations
 - f. [Cleaning products](#)
 - g. Takiron Welding Rod to match

2.2 DESCRIPTION

- A. **TAKIRON STAIR TREADS** per ASTM F2169 are Type TV, Class 2, Group 2, Nosing Style 3 (Square Nose with Integral Riser), inlaid embossed slip-resistant commercial stair treads.
- B. **Sustainable Design**
1. **USGBC LEED Rating:** Comply with project requirements intended to achieve the following Rating, as measured and documented according to the USGBC LEED® Green Building Rating System, Version indicated:

NOTE: Each LEED Version requires a different credit total to achieve the desired LEED Rating. **NOTE:** Select one of the following Ratings:

- a. Rating: Certified
 - b. Rating: Silver
 - c. Rating: Gold
 - d. Rating: Platinum
2. **Applicable LEED Credits:** Performance requirements of the following LEED Categories and Credits apply to this Section and are met as follows:
 - a. **Materials & Resources (MR):**

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- 1). MR 4.1: Recycled Content: 10 Percent (post-consumer + 1/2 pre-consumer)
 - a). Takiron Stair Treads contains 4.0% post-consumer and 6.0% pre-consumer, for a 7% calculated recycled content.
 - b). CBC 5001 adhesive comes packaged in a recyclable plastic pail.
- 2). MR Credit 6, Rapidly Renewable Materials
- b. Indoor Environmental Quality (EQ):
 - 1). EQ Credit 4.1, Low-Emitting Materials: Adhesives and Sealants: as applied to CBC 5001 acrylic, CBC 800 epoxy nose caulk, CBC OPTI Tape and CBC 951 Epoxy adhesives.
 - a). Acrylic Adhesive - CBC 5001 VOC: 0 g/L
 - b). Tape Adhesive – CBC OPTI Tape VOC: 0 g/L
 - c). Epoxy Adhesive – CBC 951 VOC: 0 g/L
 - d). Epoxy Nose Caulk- CBC 800 VOC: 0 g/L
 - 2). EQ Credit 4.3, Low-Emitting Materials: Carpet and Resilient Flooring Systems
 - a). Takiron Stair Treads certified low-emitting: MAS Laboratory Certified Green® in accordance with California DHS Section 01350. Passes.

2.3 MATERIALS

- A. TAKIRON **Stair Treads** per ASTM F 2169 “Standard Specification for Resilient Stair Treads” are Type TV, Class 2, Group 2, Nosing Style 3 (Square Nose with Integral Riser), inlaid embossed slip-resistant commercial stair treads.
 1. Composition: Stair treads press molded under heat and pressure from a PVC layer formulated from polyvinyl esters and inorganic fillers materials, with a backing material of recycled PVC and virgin PVC from polyvinyl esters and inorganic filler materials.
 - a. Size: 4’ x 19.69” by 0.10 inches (1220 mm x 500 mm x 2.5mm)
 - b. Size: 6’ X 19.69” by 0.10 inches (1828 mm x 500 mm x 2.5mm)
 2. Color and Pattern - TAKIRON **STAIR TREADS**: As selected by Architect from [Manufacturer's Standard Collection](#).

2.4 ACCESSORIES

- A. Leveling and Patching Compound: Trowelable or pourable (self-leveling) latex-modified, Portland cement-based formulation approved by floor covering / adhesive manufacturer for applications indicated.
- B. Expansion Joints: Refer to SECTION 079200 and SECTION 079500 or 079513.

NOTE: Select one of the following adhesive types, deleting that not chosen.

NOTE: Select CBC 951 Epoxy adhesive for all exterior installations or when expecting floors to be frequently washed or wet, or floors installed in extremely hot, cold or wet spaces, such as near outside entrances or freezer cases, or floors subject to heavy loads, including hospital beds, heavy carts, pallet jacks, rolling chairs, etc.

CBC 5001 and CBC OPTI Tape adhesives are suitable for indoor dry area applications.

- C. Adhesive - Acrylic: Solvent-free, low odor, acrylic based, high tack type adhesive acceptable to resilient sheet flooring manufacturer to suit flooring product and substrate conditions indicated. (indoor non-wet applications only)
 1. Manufacturer / Product: CBC 5001 HP Resilient Floor Adhesive
- D. Adhesive – Site Applied Tape system recommended for all interior installations over porous and non-porous substrates when used with edge sealer.
 1. Manufacturer / Product: CBC OPTI Tape site applied tape adhesive for Indoor Installations

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- E. Adhesive - Heavy Duty Epoxy: 2-part solvent-free, low odor, flooring epoxy adhesive recommended for all exterior and wet area installations over porous and non-porous substrates.
 - 1. Manufacturer / Product: CBC 951 2-Part Epoxy Floor Covering Adhesive for Indoor and Outdoor Installations
- F. Nose Caulk - Heavy Duty Epoxy: 2-part solvent-free, low odor, nose caulk required for all installations.
 - 1. Manufacturer / Product: CBC 800 2-Part Epoxy Nose Caulk for all Installations

RED NOTE: Use of Non-CBC adhesives with TAKIRON stair treads will void TAKIRON Warranty adhesion claims.

- G. Edge Sealing- Recommended for all exterior and wet area non-clamped edges
 - 1. Manufacturer / Product: Henkel Teroson MS 939NA or equivalent edge sealant for Indoor wet area and all Outdoor Installations
- H. Floor Cleaning Systems: Clean as recommended by flooring manufacturer's [Maintenance Product Guide](#)

PART 3 – EXECUTION

3.1 FIELD CONDITIONS

- A. Conditions and Measurements: Visit jobsite to verify installation conditions and floor measurements.
 - 1. Ambient and Environmental Conditions per manufacturer's most recent published written requirements. [Material Handling & Subfloor Preparation Guide.](#)

WARNING: Use of portable heaters may cause failure.

3.2 EXAMINATION, PREPARATION AND INSTALLATION

- A. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Verify conditions and test substrates as recommended to meet requirements.
- B. Properly prepare manufacturer acceptable substrates to accept flooring.
- C. Install stair treads per manufacturer's current [Installation Guide](#).

3.3 FIELD QUALITY CONTROL

- A. Site Tests and Inspections: Per SECTION 014000 or 014500 or 014523 and as follows:
 - 1. Inspect floor installation for non- conforming work including lack of adequate adhesion, adhesive overspray, and indications of improper substrate preparation.

3.4 CLEANING, MAINTENANCE AND PROTECTION

- A. Provide Progress Cleaning, Final Cleaning and Initial Maintenance in accordance with manufacturer's [Maintenance Guide](#), and the following:
 - 1. Protect newly installed treads from traffic for specified time on adhesive label.
 - 2. Protect new installed flooring from rolling traffic and point loads for a minimum of 48 hours or longer based on ambient conditions and adhesive cure time.
 - 3. Provide surface protection for installed product and use plywood or rigid panels to roll or move all heavy objects across the flooring before and after owner's acceptance.
 - 4. Permit only light damp mopping with well wrung mop during the first 3-4 days after installation.

3.5 CLOSEOUT ACTIVITIES

- A. Substantial Completion Requirements per SECTION 017000 or 017700

END OF
SECTION

NOTE: Be sure to obtain the latest version of this Guide Specification.

This Guide Specification is not a completed document ready for use. It must be edited, deleting, adding, or modifying text, as required to suit project requirements.

The professional stamping and the contracting parties of the Contract Documents are responsible for the accuracy of issued project specifications, including any use of this TAKIRON Stair Tread Specification

C.I. TAKIRON AND CBC AMERICA LLC SHALL NOT BE LIABLE FOR DAMAGES ARISING OUT OF THE USE OF THIS GUIDE SPECIFICATION.