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This MANU-SPEC[®] utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat*[™], *SectionFormat*[™] and *PageFormat*[™]. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies polyvinyl chloride (PVC), one- and two-piece stair treads. These products are manufactured by TOLI International. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat*[™] for other section numbers and titles.

SECTION 09 65 16 RESILIENT SHEET FLOORING

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Resilient stair treads.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Section 01 42 19 - Reference Standards may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

1.02 REFERENCES

- A. ASTM International (ASTM):
1. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
 2. ASTM D570 Standard Test Method for Water Absorption of Plastics.
 3. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
 4. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
 5. ASTM D3389 Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform, Double-Head Abrader).
 6. ASTM D5116 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
 7. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
 8. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.

9. ASTM F386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces.
 10. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
 11. ASTM F970 Standard Test Method for Static Load Limit.
 12. ASTM F1514 Standard Test Method for Measuring Heat Stability of Resilient Vinyl Flooring by Color Change.
 13. ASTM F1515 Standard Test Method for Measuring Light Stability of Resilient Vinyl Flooring by Color Change.
- B. National Fire Protection Association (NFPA):
1. NFPA 258 Research Test Method for Determining Smoke Generation of Solid Materials.

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements:
1. Chemical Resistance, ASTM F925: No change for all chemicals.
 2. Recovery from Long-Term Indentation, ASTM F970: 175 psi.
 3. Tensile Strength, ASTM D412: Passes.
 4. Abrasion Resistance, ASTM D3389: Not more than 1.1% weight loss (1000g at 1000 cycles).
 5. Slip Resistance, ASTM D2047: Meets current OSHA and ADA recommendations.
 6. Fire Performance, ASTM E648: Class 1 (0.45 watts per square centimeter or greater).
 7. Heat Resistance, ASTM F1514: Maximum average Delta E of less than 8.0.
 8. Light Resistance, ASTM F1515: Maximum average Delta E of less than 8.0.
 9. Organic Emissions, ASTM D5116: Meets California 01350 requirements.
 10. Tear Resistance, ASTM D624: Greater than 35 lb.
 11. Water Absorption Resistance, ASTM D570: Less than 1%.
 12. Smoke Density, NFPA or ASTM E662/NFPA 258: 450 or less.
 13. Product Thickness, ASTM F386: Plus or minus 1/32 inch (0.8 mm).

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor, either before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Section [01 33 00 - Submittals Procedures] [_____].

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Section [01 33 00 - Submittal Procedures] [_____].
- B. Product Data: Submit product data for specified products.

Specifier Note: If color(s) are specified or indicated on the drawings, delete requirement for selection samples.

- C. Samples: Submit selection and verification samples of colors.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

1.05 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 01 Regulatory Requirements Section. Repetitive statements should be avoided.

- A. Regulatory Requirements: In accordance with Section [01 41 00 - Regulatory Requirements] [_____].

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 01 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Section [01 61 00 - Common Product Requirements] [_____].
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal," "or approved equal", or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 STAIR TREADS

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: TOLI International, a Division of CBC (America) Corp.
 - 1. Contact: 55 Mall Drive, Commack, NY 11725; Telephone: (800) 446-5476, Technical Support: (888) TRY-TOLI; Fax: (631) 864-8151; E-mail: support@toli.com; website: www.toli.com.

Specifier Note: Select model and length below. Indicate method of color selection. If both models are retained, create designators and coordinate with the drawings.

- B. Model SW:
 - 1. Length: [3 feet (920 mm)] [4 feet (1225 mm)] [6 feet (1840 mm)].
 - 2. Depth: 12.6 inches (320 mm).
 - 3. Thickness:
 - a. Nose: 0.197 inch (5 mm).
 - b. Tread: 0.098 inch (2.5 mm).

Specifier Note: Indicate method of color selection below.

- 4. Color: [_____] [As indicated on drawings] [As selected by Architect from manufacturer's standard colors].
- C. Model 4W:
 - 1. Length: [3 feet (920 mm)] [4 feet (1225 mm)] [6 feet (1840 mm)].
 - 2. Depth: 12.6 inches (320 mm).
 - 3. Thickness:
 - a. Nose: 0.197 inch (5 mm).
 - b. Tread: 0.098 inch (2.5 mm).
 - 4. Color: [_____] [As indicated on drawings] [As selected by Architect from manufacturer's standard colors].
- D. Adhesives:
 - 1. CBC #700.
 - 2. CBC 3800 nose caulk.
 - 3. TOLI #900 epoxy adhesive.
 - 4. 1 inch and 6 inch Opti-Tape.
 - 5. TAKIRON Edge Sealant.

2.02 PRODUCT SUBSTITUTIONS

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- A. Substitutions: Substitutions in accordance with Section [01 25 13 - Product Substitution Procedures] [No substitutions permitted] [_____].

PART 3 EXECUTION

Specifier Note: Article below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete article below per project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify that conditions of substrates previously installed under other sections are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

- A. Prepare surfaces using manufacturer recommended methods in order to achieve the best substrate result for project conditions.

3.04 PROTECTION

- A. Protect installed products until completion of project.
B. Repair or replace damaged products prior to Substantial Completion.

END OF SECTION