



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

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), stair landing and riser sheets. 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 safety, landing and riser sheet flooring.

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 D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
 3. ASTM Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method).
 4. ASTM D5116 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
 5. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
 6. ASTM F137 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
 7. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
 8. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
 9. ASTM F970 Standard Test Method for Static Load Limit.
 10. ASTM F1514 Standard Test Method for Measuring Heat Stability of Resilient Vinyl Flooring by Color Change.

11. ASTM F1515 Standard Test Method for Measuring Light Stability of Resilient Vinyl Flooring by Color Change.
12. ASTM F1914 Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering.

1.03 SYSTEM DESCRIPTION

A. Performance Requirements:

1. Chemical Resistance, ASTM F925: No change for all chemicals.
2. Static Load Limit, ASTM F970: Passes commercial category.
3. Tensile Strength, ASTM D412: Passes.
4. Abrasion Resistance, ASTM D3384: 20,000 cycles to design wear-through.
5. Slip Resistance, ASTM D2047: Meets current OSHA and ADA recommendations.
6. Fire Performance, ASTM E648: Class 1 (0.45 watts/cm² 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. Residual Indentation, ASTM F1914: Maximum thickness loss of 2.9%.
11. Flexibility, ASTM F137: No cracking or breaking.

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 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 LANDING AND RISER SHEETS

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 products and models below and indicate method of color selection. If both models of landing sheet are retained, create designators and coordinate with the drawings.

- B. Model MT Safety Sheet:
 1. Width: 6 feet (1820 mm).
 2. Thickness: 0.114 inch (2.9 mm).
 3. Length: 66 feet (20 m).
 4. Color: [] [As indicated on drawings] [As selected by Architect from the manufacturer’s standard colors].
- C. Model TW Landing Sheet:
 1. Width: 6 feet (1820 mm).
 2. Thickness: 0.098 inch (2.5 mm).
 3. Length: 66 feet (20 m).
 4. Color: [] [As indicated on drawings] [As selected by Architect from the manufacturer’s standard colors].
- D. Model SA Landing Sheet:
 1. Width: 6 feet (1820 m).
 2. Thickness: 0.098 inch (2.5 mm).
 3. Length: 66 feet (20 m).
 4. Color: [] [As indicated on drawings] [As selected by Architect from manufacturer’s standard colors].
- E. Model CW Riser Sheet::
 1. Width: 6 feet (1820 mm).
 2. Thickness: 0.078 inch (2.0 mm).
 3. Length: 66 feet (20 m)
 4. Color: [] [As indicated on drawings] [As selected by Architect from manufacturer’s standard colors].

2.02 ACCESSORIES

- A. Latex Patching Compound: To ASTM F710.
- B. Adhesives:
 1. Indoor Installation: CBC 4040, CBC 700, Opti-Tape.
 2. Outdoor Installation: CBC 700, Takiron Edge Sealant.
- C. Welding Thread: 3.5 mm diameter as recommended by manufacturer.

2.03 PRODUCT SUBSTITUTIONS

- 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 project completion.
- B. Repair or replace damaged products prior to Substantial Completion.

END OF SECTION