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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 vinyl composition floor tile. This product is 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 19**  
**RESILIENT TILE FLOORING**

**PART 1 GENERAL**

1.01 SUMMARY

- A. Section Includes: Vinyl composition floor tile.
- B. Related Sections:
  - 1. Division 07 Section: Expansion joint covers for resilient flooring.
  - 2. Division 09 Section: Resilient flooring accessories.

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 D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
  - 2. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 3. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
  - 4. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
  - 5. ASTM F386 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces.
  - 6. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
  - 7. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
  - 8. ASTM F970 Standard Test Method for Static Load Limit.
  - 9. ASTM F1066 Standard Specification for Vinyl Composition Floor Tile.

10. ASTM F1265 Standard Test Method for Resistance to Impact for Resilient Floor Tile.
  11. ASTM F1304 Standard Test Method for Deflection of Resilient Floor Tile.
  12. ASTM F1914 Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering.
  13. ASTM F2055 Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method.
  14. ASTM F2199 Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat.
- B. National Fire Protection Association (NFPA):
1. NFPA 253 Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Energy Source.
  2. NFPA 258 Recommended Practice for Determining Smoke Generation of Solid Materials.

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements:
1. Chemical Resistance, ASTM F925: No more than a slight change in surface dulling, surface attack or staining.
  2. Recovery From Long-Term Indentation, ASTM F970: 1000 psi.
  3. Slip Resistance, ASTM D2047: Meet current OSHA and ADA recommendations.
  4. Fire Performance:
    - a. Critical Radiant Flux, NFPA 253 or ASTM E648: Class 1, 0.45 watts/ cm<sup>2</sup> or greater.
    - b. Surface Burning Characteristics, ASTM E84:
      - 1) Flamespread: 40, maximum.
      - 2) Smoke Developed: 450, maximum.
    - c. Smoke Density, NFPA 258 or ASTM E662: 450 or less.
  5. Heat Resistance, ASTM F1066: Maximum average Delta E of less than 8.0.
  6. Indentation, ASTM F1914: Maximum average of not more than the following:
    - a. 1 Minute: 0.0122 inch (0.31 mm).
    - b. 10 Minutes: 0.0146 inch (0.37 mm).
  7. Impact Resistance, ASTM F1265: No cracks beyond limit with a drop height of 20 inches (508 mm).
  8. Deflection, ASTM F1304: Not less than 1 inch (25.4 mm).
  9. Thickness, ASTM F386: Tolerance plus or minus 0.005 inch (0.127 mm).
  10. Size, ASTM F2055: Tolerance plus or minus 0.016 inch (0.406 mm).
  11. Dimensional Stability, ASTM F2199: Linear dimensional change not more than 0.024 inch (0.610 mm) per lineal foot.

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.

**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 RESILIENT TILE FLOORING**

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.
- 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](mailto:support@toli.com); website: [www.toli.com](http://www.toli.com).
- B. FasolPlus:
- Classification: Comply with ASTM F1066.
  - Size: 17.7 inches x 17.7 inches (450 x 450 mm).
  - Thickness: 0.120 inch (3.05 mm).

Specifier Note: Indicate method of color selection below.

- Color: [\_\_\_\_\_] [As indicated on the drawings] [As selected by the Architect from the manufacturer's standard colors].
- C. Latex Patching Compound: ASTM F710.
- D. Adhesive: TOLI 5050 or TOLI 900 as recommended by manufacturer.

**2.02 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**

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- 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**