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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 PVC-free resilient plank flooring. This product is manufactured by CERES Natural Flooring Products. 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: PVC-free resilient plank flooring.
- 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 D3884 Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method).
 - 3. ASTM D5116 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products.
 - 4. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
 - 5. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
 - 6. ASTM F137 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
 - 7. ASTM F150 Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring.

8. ASTM F386 Standard Test Method for Thickness of Resilient Flooring Having Flat Surfaces.
 9. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
 10. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Sheet 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.
 14. ASTM F1914 Standard Test Method for Short-Term Indentation and Residual Indentation of Resilient Floor Covering.
- B. National Fire Protection Association (NFPA):
1. NFPA 253 Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.
 2. NFPA 258 Research Test Method for Determining Smoke Generation of Solid Materials.

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements:
1. Fire Performance:
 - a. Critical Radiant Flux (NFPA 253 or ASTM E648): Class 1 (0.45 watts/square centimeter or greater).
 - b. Smoke Density (NFPA 258 or ASTM E662): 450 or less.
 2. Chemical Resistance, ASTM F925: No change for all chemicals.
 3. Recovery from Long-Term Indentation, ASTM F970: 1000 psi.
 4. Flexibility, ASTM F137: Passes, 1 inch mandrel.
 5. Abrasion Resistance, ASTM D3884: 15,000 cycles before pattern wearthrough.
 6. Electrical Resistance, ASTM F150: Average electrical resistance 4.9×10^{10} ohms.
 7. Resistance to Short-Term Indentation, ASTM F1914: Passes at 140 lb.
 8. Organic Emissions, ASTM D5116: Meets California 01350 requirements.
 9. Slip Resistance, ASTM D2047: Meets OSHA and ADA recommendations.
 10. Heat Resistance, ASTM F1514: Maximum average Delta E of less than 8.0.
 11. Light Resistance, ASTM F1515: Maximum average Delta E of less than 8.0.
 12. Total Thickness, ASTM F386: Maximum tolerance of +/- 0.005 inch.

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: Edit paragraph below to conform to project requirements.

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

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.

Specifier Note: Coordinate article below with Conditions of the Contract and with Section 01 78 36 - Warranties.

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: CERES Natural Flooring Products, a Division of CBC (America) Corp.
- Contact: 55 Mall Drive, Commack, NY 11725-5703; Telephone: (888) 377-8801, (631) 864-4343; Fax: (631) 864-8151; E-mail: support@ceresnaturalfloors.com; website: www.ceresnaturalflooring.com.
- B. CERES Sequoia:
- Size: 4 inches x 36 inches (102 x 914 mm).
 - Gauge: 0.080 inch.
 - Recovery From Long-Term Indentation (ASTM F970): 1500 psi (10,335 kPa).
 - Resistance to Chemicals (ASTM F925): Pass.
 - Pattern and Color: As selected by the Architect from the manufacturer's standard patterns and colors.
- C. Latex Patching Compound: ASTM F710.
- D. Adhesive: 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 for installation, including product technical bulletins, product catalog installation instructions and product carton instructions.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify that substrate conditions, for substrates that have been previously installed under

other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

- A. Prepare surfaces using methods recommended by the manufacturer for achieving the best result for the substrate under the 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