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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 rubber tile athletic flooring, in glue-down and interlocking loose-lay styles. These products are manufactured by Burke 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 66
RESILIENT ATHLETIC FLOORING

PART 1 GENERAL

1.01 SUMMARY

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 D3389 Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform, Double-Head Abrader).
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 F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
6. ASTM F970 Standard Test Method for Static Load Limit.
7. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
8. ASTM F1344 Standard Specification for Rubber Floor Tile.
9. ASTM F2199 Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat.

B. Deutsches Institut für Normung e.V. (DIN):

1. DIN 18032 Halls and Rooms for Sports and Multi-Purpose Use.

C. 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 (ASTM E648/NFPA 253): Not less than 0.45 watts per square centimeter.
- b. Smoke Density (ASTM E662/NFPA 258): 450, maximum.

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, including manufacturer's SPEC-DATA® sheet, for specified products.

C. Samples: Submit full size samples of specified tile(s).

D. Quality Control Submittals:

1. Manufacturer's Instructions: Manufacturer's installation instructions.

E. Closeout Submittals:

1. Warranty: Manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

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

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

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.

1.07 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit in accordance with Section [01 78 36 - Warranties] [_____] for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

1. Warranty Period: 10 years commencing on Date of Substantial Completion.

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 "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 ATHLETIC 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: Burke Flooring Products.

1. Contact: 2250 S. Tenth St., San Jose, CA 95112; Telephone: (800) 669-7010, (408) 297-3500; Fax: (408) 295-8144; website: www.endura-flooring.com, www.burkeflooring.com.

Specifier Note: Retain one or both of the products below to conform to project requirements. If more than one product is retained, create designators and coordinate with the drawings.

B. Endura EcoScore Athletic Rubber Flooring:

Specifier Note: Select method of designating color(s) below. Refer to manufacturer's catalog for standard range of colors. Custom colors are available, 2500 ft² (232 m²) minimum.

1. Color: [As indicated on the drawings] [As selected by the architect from the manufacturer's range of standard colors] [_____].
2. Size: 24 inches (610 mm) square.
3. Thickness: 3/8 inch (9.5 mm) with a wearlayer thickness of 0.125 inch (3.2 mm).

Specifier Note: Select configuration below. If both are retained, create designators and coordinate with the drawings.

4. Configuration: [Square edge for glue-down installation].
5. Abrasion Resistance, Wearlayer (ASTM D3389): Less than 1 gram per 1000 cycles.
6. Slip Resistance (ASTM D2047): Greater than 0.8.
7. Static Load Limit (ASTM F970): Less than 0.005 inch (0.127) residual indentation at 250 pound load.
8. Basketball Recovery (DIN 18032): Not less than 99%.
9. Dimensional Stability (ASTM F2199): 0.05% or less.
10. Chemical Resistance: Meets the requirements of ASTM F1344 when tested in accordance with ASTM F925 after 24 hours of exposure to the following chemical agents:
 - a. 5% acetic acid.
 - b. 70% isopropyl alcohol.
 - c. 5% sodium hydroxide.
 - d. 5% hydrochloric acid.
 - e. 5% ammonia bleach.
 - f. 5% phenol and sulfuric acid.

2.02 ACCESSORIES

Specifier Note: Retain BR-710 for water repellent applications; retain BR-725 for waterproof applications. If both are retained, create designators and coordinate with the drawings. Delete this article entirely if glue-down tile is not specified.

A. Adhesives: [BR-710 One-Part Urethane] [BR-725 Two-Part Urethane].

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: 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.

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 substrate conditions are acceptable for product installation in accordance with manufacturer's instructions.

3.03 INSTALLATION

Specifier Note: Edit paragraphs below to conform to project requirements.

- A. Orientation of Tile Grid: [Square to room axis] [45 degrees to room axis] [As indicated on the drawings] [_____].
- B. Alignment of Tile: [Grain running in one direction] [Grain reversed in adjacent tiles] [Color pattern as indicated on the drawings] [_____].

3.04 CLEANUP

- A. Proceed in accordance with Section [01 74 23 – Final Cleaning] [_____].
- B. Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION