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**DIVISION 9 - SECTION 09 65 66 Resilient Athletic Surfacing
Centaur Interval Turf Flooring**

PART 1.0- GENERAL

1.1 SUMMARY

- A. The work of this section includes:
 - 1. Centaur Interval Turf Rolls with 5mm Vulcanized Composition Rubber backing
 - 2. Centaur Interval Turf Rolls with 12mm Vulcanized Composition Rubber backing
 - 3. Centaur Interval Turf Interlocking Tiles with 12mm Vulcanized Composition Rubber backing
- B. Related Sections: Section(s) related to this section include:
 - 1. Concrete Substrate: Division 3 Concrete Section(s)
 - 2. Plywood Substrate: Division 6

1.2 REFERENCES

- A. Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title, or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.
- B. American Society for Testing and Materials (ASTM):
 - 1. See – Part 2.0 PROPRIETARY MANUFACTURER/PRODUCTS below
- C. Leadership in Energy and Environmental Design – LEED™
 - 1. International Organization for Standardization™ document, ISO 14021 - Provides guidance on the terminology, symbols, testing and verification methodologies that an organization should use for self-declaration of the environmental aspects of its products and services.

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide Centaur turf, which has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage, or failure.

1.4 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. LEED: Provide documentation of how the requirements for credit will be met.
 - 1. List of proposed materials with recycled content. Indicate pre-consumer and post-consumer content.
 - 2. Product data and certification letter indicating percentage of recycled content for both pre-consumer and post-consumer content.
 - 3. Recycled content is defined in accordance with the International Organization for Standardization document, ISO 14021 Environmental Labels and Declarations.

- a. Post-consumer material - waste materials diverted from the waste stream after consumer or commercial use.
 - b. Pre-consumer material - materials diverted from the waste stream during the manufacturing process. Excluded are regrind, rework, and scrap.
- C. Product Data: Submit product data, including manufacturer's guide specifications product sheet, for specified products.
- D. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including accessories, finish colors, patterns, and textures.
- E. Samples: Submit selection and verification samples for finishes, colors, and textures.
- F. Quality Assurance Submittals: Submit the following.
 - 1. Provide manufacturer's current installation guidelines as published by the manufacturer.
 - 2. Certificates: If required, certification of performance characteristics specified in this document shall be provided by the manufacturer.

Specifier Note: Coordinate paragraph below with Part 3.05 Field Quality Requirements Article herein. Retain or delete as applicable.

- 3. Manufacturer's Field Reports: manufacturer's field reports specified herein.
- G. Closeout Submittals: Submit the following.
 - 1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operational Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
 - 2. Warranty: Warranty documents specified herein.

1.5 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installer Qualifications: Installer experienced in performing work of this section, who has specialized in installation of work similar to that required for this project.
 - a. Confirmation: When requested, submit confirmation indicating qualification.
 - 2. Manufacturer's Qualifications: Manufacturer capable of providing field service representation during construction and approving application method.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. Repetitive statements should be avoided.

- B. Mock-Ups: Install at project site a job mock-up using acceptable products and manufacturer-approved installation methods. Obtain owner and architect's acceptance of finish color, texture and pattern, and workmanship standard. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.
 - 1. Mock-Up Size: [specify mock-up size].
 - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
 - 3. Incorporation: Mock-up may be incorporated into final construction upon owner's approval.
 - C. Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's instructions, and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings) Section.
 - D. Pre-installation Testing: Conduct pre-installation testing as follows: [specify substrate testing; consult with flooring manufacturer].

1.6 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
- B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

- C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Storage and Protection: Store materials at temperature and humidity conditions recommended by manufacturer and protect from exposure to harmful weather conditions.

1.7 PROJECT CONDITIONS

- A. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during, and after installation as recommended by manufacturer.
- B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

1.8 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for owner's acceptance, manufacturer's standard warranty document, executed by authorized company official.

Specifier Note: Coordinate paragraph below with manufacturer's warranty requirements.

1. Warranty Period: [Specify term] years commencing in Date of Substantial Completion.

1.9 MAINTENANCE

- A. Extra Materials: Deliver to owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals (Maintenance Materials) Section.
 1. Quantity: Furnish quantity of Flooring units equal to [specify %] of amount installed.
 2. Delivery, Storage, and Protection: Comply with owner's requirements for delivery, Storage, and protection of extra materials.
 3. Cleaning: Furnish flooring manufacturer's neutral cleaner for initial cleaning and maintenance of the finished floor surface.

PART 2.0 - PROPRIETARY MANUFACTURER/PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attribute 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.

2.1 MANUFACTURER: Ecore

- A. Address: 715 Fountain Ave., Lancaster, PA 17601; Telephone: (800) 322-1923, (717) 295-3400; Fax: (717) 295-3414; Email: info@ecoreintl.com

2.2 DISTRIBUTOR: Centaur Floor Systems

- A. Address: 715 Fountain Ave., Lancaster, PA 17601; Telephone: (800) 536-9007 Email: info@centaurofloors.com

2.3 PROPRIETARY PRODUCT(S)

1. Centaur Interval Turf Rolls with 5mm Vulcanized Composition Rubber Base layer
2. Centaur Interval Turf Rolls with 12mm Vulcanized Composition Rubber Base layer
3. Centaur Interval Turf Interlocking Tiles with 12mm Vulcanized Composition Rubber Base layer

2.3.1 Centaur Interval Turf Rolls with **5mm Vulcanized Composition Rubber Base layer**

Centaur Interval Turf Rolls with 5mm 6015H Vulcanized Composition Rubber Base Layer Made from a formulation of high-quality, post-consumer Vulcanized Composition Rubber granules encapsulated in a wear and water-resistant elastomeric network, with a fusion bonded Polyethylene turf wear layer		
Performance Criteria	Test Method	Result
Sheet Dimensions	Manufacturer	Turf wear layer pile height: 12mm, fusion bonded to a 5mm rubber 6015H base layer. Total Thickness approx. 17mm (11/16") Width: 72". Length: 35LF minimum.
Sheet Standard Tolerances	Manufacturer	Roll width: +3/4", - 0"; Roll length: +1%, - 0"
Slip Resistance / Coef. of Friction	ASTM D2047	0.87
Force Reduction/ Impact/ Energy Abatement	Deltec Field test, 5 kg mass	30.8%
Energy Restitution	Deltec Field test	46.6%
Vertical Deformation	Deltec Field test	3.8 mm
g-max	Clegg	192
Flammability	ASTM D2859	Pass

2.3.2 Centaur Interval Turf Rolls with **12mm Vulcanized Composition Rubber Base layer**

Centaur Interval Turf Rolls with 12mm 4735 Vulcanized Composition Rubber Base layer Made from a formulation of high-quality, post-consumer Vulcanized Composition Rubber granules encapsulated in a wear and water-resistant elastomeric network, with a fusion bonded Polyethylene turf wear layer		
Performance Criteria	Test Method	Result
Sheet Dimension:	Manufacturer	Turf pile height: 12mm Rubber 4735 base layer thickness: 12mm Overall Thickness: approx. 24mm (1"). Width: 72". Length: 35LF minimum.
Sheet Standard Tolerances	Manufacturer	Roll width: +3/4", - 0"; Roll length: +1%, - 0"
Slip Resistance / Coef. of Friction	ASTM D1335	0.87
Force Reduction/ Impact/ Energy Abatement	Deltec Field test, 5 kg mass	47.1%
Energy Restitution	Deltec Field test	41.0%
Vertical Deformation	Deltec Field test	4.9 mm
g-max	Clegg	84
Flammability	ASTM D2859	Pass

2.2.1 Centaur Interval Turf Interlocking Turf Tiles with 12mm Vulcanized Composition Rubber Base layer

Centaur Interval Turf Interlocking Tiles with 12mm Vulcanized Composition Rubber Base layer Made from a formulation of high-quality, post-consumer Vulcanized Composition Rubber granules encapsulated in a wear and water-resistant elastomeric network, with a fusion bonded Polyethylene turf wear layer		
Performance Criteria	Test Method	Result
Tile Dimensions:	Manufacturer	Turf surface pile height of 12mm, fusion bonded to a 12mm rubber 4735 base layer. Dimensions 23" x 46" x approx. 24mm (1")
Tile Standard Tolerances		Tile thickness: +/- 0.6mm; L & W: 1/8"
Slip Resistance / Coef. of Friction	ASTM D1335	0.87
Force Reduction/ Impact/ Energy Abatement	Deltec Field test, 5 kg mass	47.1%
Energy Restitution	Deltec Field test	41.0%
Vertical Deformation	Deltec Field test	4.9 mm
g-max	Clegg	84
Flammability	ASTM D2859	Pass

2.3 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

2.4 RELATED MATERIALS

- A. Related Materials: Refer to other sections listed in Related Sections paragraph herein for related materials.

2.5 SOURCE QUALITY

- A. Source Quality: Obtain Vulcanized Composition Rubber resilient flooring materials from a single manufacturer.

PART 3.0 - EXECUTION

Specifier Note: Revise article below to suit project requirements and specifier's practice.

3.1 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.

3.2 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.3 PREPARATION

- A. Surface Preparation: [specify applicable product preparation requirements].

Specifier Note: Coordinate article below with manufacturer's recommended installation details and requirements.

3.4 ERECTION/INSTALLATION/APPLICATION/CONSTRUCTION

- A. Vulcanized Composition Rubber: Comply with the Centaur Technical Manual for installation procedures and techniques.
- B. Finish Color/Textures/Patterns: [specify installation finishes coordinated with finishes specified in Part 2 Products].
- C. Related Products Installation: Refer to other sections listed in Related Sections paragraph herein .

3.5 FIELD QUALITY REQUIREMENTS

Specifier Note: Edit paragraph below. Establish number and duration of periodic site visits with owner and manufacturer and specify below. Consult with manufacturer for services required. Coordinate paragraph below with Division 1 Quality Assurance Section and Part 1 Quality Assurance Submittals herein. Delete if manufacturer's field service not required.

- A. Manufacturer's Field Services: Upon owner's request, provide manufacturer's field service, consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.
 - 1. Site Visits: [specify number and duration of periodic site visits].

3.6 CLEANING

- A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.7 PROTECTION

- A. Protection: Protect installed product and finish surfaces from damage during construction.

3.8 SCHEDULES

- A. Schedules: [Specify reference to applicable schedules].

END OF SECTION