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**DIVISION 9 - SECTION 09 65 66 Resilient Athletic Surfacing
Centaur xrTurf Rolls and Interlocking Tiles – Recycled Rubber Backed Turf Flooring**

PART 1.0- GENERAL

1.1 SUMMARY

- A. The work of this section includes:
 - 1. xrTurf rubber backed turf rolls with 5mm rubber backing
 - 2. xrTurf rubber backed turf rolls with 12mm rubber backing
 - 3. xrTurf rubber backed interlocking turf tiles with 12mm rubber backing
 - 4. Adhesives
- 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. ASTM D1335 Tuft Bind
 - 2. ASTM D5034 Tear Strength
 - 3. ASTM F2765 Lead Content
 - 4. ASTM D1577 Total Yarn Linear Density
 - 5. ASTM D2256 Yarn Breaking Strength
 - 6. ASTM D7138 Yarn Melting Point
 - 7. ASTM D2859 Flammability
 - 8. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
 - 9. South Coast Air Quality Management District (SCAQMD) Rule #1168 (VOC standards for adhesive and sealant applications)

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide Centaur xrTurf, 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 anchorage, 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 3.5 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. Certificate: When requested, submit certificate 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. General statements to comply with a particular code are typically addressed in Conditions of Contract and Division 1 Regulatory Requirements Section. Regulatory Requirements: [specify applicable requirements of regulatory agencies].

- 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. Manufacturer's warranty is in addition to and not a limitation of, other rights owner may have under Contract Documents.

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 recycled rubber flooring with 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.

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 PROPRIETARY PRODUCT(S)

A. Centaur xrTurf Rolls and Interlocking Tiles.

1. xr Turf rubber backed turf rolls with 5mm rubber backing
2. xr Turf rubber backed turf rolls with 12mm rubber backing
3. xr Turf rubber backed interlocking turf tiles with 12mm rubber backing
4. E-Grip™ III a single-component, zero-VOC, urethane, adhesive

2.3.1 Centaur xr Turf rubber backed turf rolls with 5mm rubber backing

Product Name	The laminated, double layer, turf surface furnished under this specification shall be Speed & Agility Turf rolls with 5mm rubber backing
Material	Made from a formulation of high-quality, post-consumer recycled rubber granules encapsulated in a wear and water-resistant elastomeric network, with a fusion bonded nylon turf wear layer
Sheet Dimension	Ecore turf surface pile height of 3mm fusion bonded to a 5mm rubber 6015H underlayment. Overall thickness approximately 8mm Width :72". Length: Specify custom roll length; 25LF minimum.
Sheet Weight	1.13 lb/ft ² [5.5 kg/m ²]
Sheet Standard Tolerances	Roll width: + ³ / ₄ " - 0" Roll length: +1% - 0"
Tuft Bind (ASTM D-1335)	>8 lbs
Tear Strength Ave (ASTM D-5034)	>200 lbs
Lead Content (ASTM F-2765)	<50 ppm
Total Yarn Linear Density (ASTM D-1577)	4,200 Denier
Yarn Breaking Strength (ASTM D-2256)	>19 lbs
Yarn Melting Point (ASTM D-7138)	428 F
Flammability (ASTM D-2859)	PASS

2.3.2 Centaur xrTurf 5mm Rubber Backed Turf Rolls with 12mm rubber backing

Product Name	The laminated, double layer, turf surface furnished under this specification shall be Speed & Agility Turf Rolls with 12mm rubber backing
Material	Made from a formulation of high-quality, post-consumer recycled rubber granules encapsulated in a wear and water-resistant elastomeric network, with a fusion bonded nylon turf wear layer
Sheet Dimension	Ecore turf surface pile height of 3mm, fusion bonded to a 12mm rubber 4735 underlayment. Overall thickness approximately 15mm. Width :72". Length: Specify custom roll length; 25LF minimum.
Sheet Weight	1.97 lb/ft ² [9.6 kg/m ²]
Sheet Standard Tolerances	Roll width: + ³ / ₄ " - 0" Roll length: +1% - 0"
Tuft Bind (ASTM D-1335)	>8 lbs
Tear Strength Ave (ASTM D-5034)	>200 lbs
Lead Content (ASTM F-2765)	<50 ppm
Total Yarn Linear Density (ASTM D-1577)	4,200 Denier
Yarn Breaking Strength (ASTM D-2256)	>19 lbs
Yarn Melting Point (ASTM D-7138)	428 F
Flammability (ASTM D-2859)	PASS

2.3.3 Centaur xrTurf 12mm Rubber Backed Turf Interlocking Tiles with 12mm rubber backing

Product Name	The laminated, double layer, turf surface furnished under this specification shall be Speed & Agility Interlocking Tiles with 12mm rubber backing
Material	Made from a formulation of high-quality, post-consumer recycled rubber granules encapsulated in a wear and water-resistant elastomeric network, with a fusion bonded nylon turf wear layer
Tile Dimension	Ecore turf surface pile height of 3mm, fusion bonded to a 12mm rubber 4735 underlayment. Overall thickness approximately 15mm. Width: 23". Length: 46"
Tile Weight	1.97 lb/ft ² [9.6 kg/m ²]
Tuft Bind (ASTM D-1335)	>8 lbs
Tear Strength Ave (ASTM D-5034)	>200 lbs

Lead Content (ASTM F-2765)	<50 ppm
Total Yarn Linear Density (ASTM D-1577)	4,200 Denier
Yarn Breaking Strength (ASTM D-2256)	>19 lbs
Yarn Melting Point (ASTM D-7138)	428 F
Flammability (ASTM D-2859)	PASS

2.3.4 E-Grip™ III one-component urethane adhesive

Product Name	The laminated, double layer, turf surface furnished under this specification shall be Speed & Agility Interlocking Tiles with 12mm rubber backing
Material	Made from a formulation of high-quality, post-consumer recycled rubber granules encapsulated in a wear and water-resistant elastomeric network, with a fusion bonded nylon turf wear layer
Tile Dimension	Ecore turf surface pile height of 3mm, fusion bonded to a 12mm rubber 4735 underlayment. Overall thickness approximately 15mm. Width: 23". Length: 46"
Tile Weight	1.97 lb/ft ² [9.6 kg/m ²]
Tuft Bind (ASTM D-1335)	>8 lbs
Tear Strength Ave (ASTM D-5034)	>200 lbs
Lead Content (ASTM F-2765)	<50 ppm
Total Yarn Linear Density (ASTM D-1577)	4,200 Denier
Yarn Breaking Strength (ASTM D-2256)	>19 lbs
Yarn Melting Point (ASTM D-7138)	428 F
Flammability (ASTM D-2859)	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 recycled 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. Recycled Rubber Flooring Installation: Comply with Manufacturers 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 for related products installation.

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