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**DIVISION 9 Finishes: SECTION 09 65 66 Resilient Athletic Flooring  
Ecore Athletic Performance Rolls and Interlocking Tiles – Vulcanized Composition Rubber Flooring  
Patent No. RE 9,096,045 B2**

**PART 1.0 – GENERAL**

1.1 SUMMARY

A. The work of this section includes:

1. Ecore Athletic Performance Vulcanized Composition Rubber Rolls and Interlocking Tiles
2. 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 D412: Test method used to evaluate the tensile (tension) properties of rubber.
2. ASTM F137: Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
3. ASTM C518: Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
4. ASTM D2047: Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as measured by the James Machine.
5. ASTM D2859: Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials.
6. ASTM D5116: Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products.
7. ASTM D3389: Test Method for Coated Fabrics Abrasion Resistance.
8. ASTM F970: Test Method for Static Load Limit.
9. ASTM F1514: Test Method for Measuring Heat Stability of Resilient Flooring by Color Change.
10. ASTM F1515: Test Method for Measuring Light Stability of Resilient Flooring by Color Change
11. ASTM F925: Test Method for Resistance to Chemicals of Resilient Flooring
12. ASTM F2170 Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.

13. ASTM F2753: Standard Practice to Evaluate the Effect of Dynamic Rolling Load over Resilient Floor Covering System.
14. ASTM F710: Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
15. ASTM F2772: Standard Specification for Athletic Performance Properties of Indoor Sports Floors.

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 vulcanized composition rubber resilient flooring, 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 vulcanized composition rubber content. Indicated pre-consumer and post-consumer content.
2. Product data and certification letter indicating percentage of vulcanized composition 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. Certificates: If required, certification of performance characteristics specified in this document shall be provided by the manufacturer.
2. Manufacturer's Instructions: Manufacturer's installation instructions.

**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. 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. (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 on 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.

**Specifier Note:** Revise paragraph below specifying size and percentage as required for project.

1. Quantity: Furnish quantity of recycled rubber 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 protect 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.

### 2.1 MANUFACTURER: Ecore

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

### 2.2 PROPRIETARY PRODUCT(S)

- A. Ecore Athletic Performance Rolls, Interlocking Tiles, and Adhesives manufactured by Ecore for indoor fitness applications
  1. Ecore Athletic Performance **Motivate** Rolls with a 5mm 6015H underlayment and a 2.5 mm EPDM surface wear layer.
  2. Ecore Athletic Performance **Rally Rolls** with a 12mm 4735 underlayment and a 2.5 mm EPDM surface wear layer.
  3. Ecore Athletic Performance **Rally Interlocking Tiles** with a 12mm 4735 underlayment and a 2.5 mm EPDM surface wear layer.
  4. Ecore Athletic Performance **Beast** Rolls with an 8mm 8032 underlayment and a 2.5 mm EPDM surface wear layer.
  5. Ecore Athletic Performance **Beast Plus** Rolls with an 12mm 8032 underlayment and a 2.5 mm EPDM surface wear layer.
  6. Ecore Athletic Performance **Modzilla** Rolls with an 8mm 8032 underlayment and a 2.5 mm EPDM surface wear layer, field united to a 32 mm thick 4735 underlayment interlocking tile base layer.
  7. Ecore Athletic Performance **Monster** Rolls with an 8mm 8032 underlayment and a 2.5 mm EPDM surface wear layer, field united to a 12mm 4735 base Layer. Ecore Athletic interlocking tiles with 32 mm thick 4735 underlayment
  8. E-Grip III™ one-component polyurethane adhesive

2.3.1 Performance **Motivate** Rolls

<b>Stacked Performance <b>Motivate</b> Rolls with itsTRU™ Technology</b> <b>5mm - 6015H Underlayment / 2.5 mm Surface Wear Layer</b>		
<p>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 reprocessed ColorMill™ EPDM surface wear layer.</p>		
Performance Criteria	Test Method	Result
Tensile Strength	ASTM D 412	>200 PSI
Flexibility ¼" mandrel	ASTM F 137	Pass
Thermal Conductivity	ASTM C 518	>0.4
Static Load Limit	ASTM F 970 @ 250PSI	0.004" Typical
Slip Resistance / Coefficient of Friction	ASTM D 2047	> 0.9
VOC's / FloorScore / CHPS / CA	ASTM D5116	Pass
Color Stability	ASTM F-1515	Good
Chemical Resistance	ASTM F-925	Good
Abrasion Resistance	ASTM D 3389 / EN 649	<1g, 100 cycles
Resistance to Heat	ASTM F 1514	Δ E, <8.0
Flammability – Critical Radiant Flux	ASTM E648	Class II
Flammability – Pill Test	ASTM D2859	Pass
Vertical Deflection / Deformation	ASTM F 2772	0.73 mm
Surface Effect Slip Resistance	ASTM F 2772	Pass
Ball Rebound	ASTM F 2772	99.7%
Force Reduction	ASTM F 2772	12.6%
Sheet Dimension	Manufacturer	4' wide x 25 LF min./ 1.22M x 7.62M
Standard Tolerance Width	Manufacturer	+3/4" – 0" / +19mm – 0
Standard Tolerance Length	Manufacturer	+ 1% - 0"
Standard Tolerance Thickness	Manufacturer	+/- 0.6 mm
Standard Sheet Weight	Manufacturer	1.53 lbs/sf / 7.47 kg/m <sup>2</sup>

2.3.2 Performance **Rally Rolls** (see next table for Rally *interlocking tiles*)

<p align="center"><b>Stacked Performance Rally Rolls with itsTRU™ Technology</b>  <b>12mm – 4735 Underlayment / 2.5 mm Surface Wear Layer</b></p>		
<p>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 reprocessed ColorMill™ EPDM surface wear layer.</p>		
Performance Criteria	Test Method	Result
Tensile Strength	ASTM D 412	>200 PSI
Flexibility ¼" mandrel	ASTM F 137	Pass
Thermal Conductivity	ASTM C 518	>0.4"
Static Load Limit	ASTM F 970 @ 250PSI	0.009" Typical
Slip Resistance / Coefficient of Friction	ASTM D 2047	> 0.9
VOC's / FloorScore / CHPS / CA	ASTM D5116	Pass
Color Stability	ASTM F-1515	Good
Chemical Resistance	ASTM F-925	Good
Abrasion Resistance	ASTM D 3389 / EN 649	<1g, 100 cycle
Resistance to Heat	ASTM F 1514	Δ E <8.0
Flammability – Critical Radiant Flux	ASTM E648	Class II
Flammability – Pill Test	ASTM D2859	Pass
Vertical Deflection / Deformation	ASTM F 2772	2.66 mm
Surface Effect Slip Resistance	ASTM F 2772	Pass
Ball Rebound	ASTM F 2772	98.8%
Force Reduction	ASTM F 2772	35.7%
Sheet Dimension	Manufacturer	4' wide x 25 LF min./ 1.22M x 7.62M
Standard Tolerance Width	Manufacturer	+ 3/4" – 0" / +19 mm – 0
Standard Tolerance Length	Manufacturer	+ 1% - 0"
Standard Tolerance Thickness	Manufacturer	± .6 mm
Standard Sheet Weight	Manufacturer	2.34 lbs/sf / 11.42 kg/m <sup>2</sup>

2.3.3 Performance **Rally Interlocking Tiles**

<b>Stacked Performance <u>Rally Interlocking Tiles</u> with itsTRU™ Technology</b> <b>12mm – 4735 Underlayment / 2.5 mm Surface Wear Layer</b>		
<p>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 reprocessed ColorMill™ EPDM surface wear layer.</p>		
Performance Criteria	Test Method	Result
Tensile Strength	ASTM D 412	>200 PSI
Flexibility ¼" mandrel	ASTM F 137	Pass
Thermal Conductivity	ASTM C 518	>0.4"
Static Load Limit	ASTM F 970 @ 250PSI	0.009" Typical
Slip Resistance / Coefficient of Friction	ASTM D 2047	> 0.9
VOC's / FloorScore / CHPS / CA	ASTM D5116	Pass
Color Stability	ASTM F-1515	Good
Chemical Resistance	ASTM F-925	Good
Abrasion Resistance	ASTM D 3389 / EN 649	<1g, 100 cycle
Resistance to Heat	ASTM F 1514	Δ E <8.0
Flammability – Critical Radiant Flux	ASTM E648	Class II
Flammability – Pill Test	ASTM D2859	Pass
Vertical Deflection / Deformation	ASTM F 2772	2.66 mm
Surface Effect Slip Resistance	ASTM F 2772	Pass
Ball Rebound	ASTM F 2772	98.8%
Force Reduction	ASTM F 2772	35.7%
Tile Dimension	Manufacturer	23" x 23" / 58.4cm x 58.4 cm
Standard Tolerance Thickness	Manufacturer	+0.6 mm
Standard Sheet Weight	Manufacturer	2.34 lb/sf / 11.42 kg/m <sup>2</sup>

2.3.3 Performance **Beast** Rolls

<b>Stacked Performance <b>Beast</b> Rolls with itsTRU™ Technology</b> <b>8mm - 8032 Underlayment / 2.5mm Surface Wear Layer</b>		
<p>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 reprocessed ColorMill™ EPDM surface wear layer.</p>		
Performance Criteria	Test Method	Result
Tensile Strength	ASTM D 412	>200 PSI
Flexibility ¼" mandrel	ASTM F 137	Pass
Thermal Conductivity	ASTM C 518	2.1 Btu-in/h-ft-F
Static Load Limit	ASTM F 970 @ 250PSI	0.004" Pass
Slip Resistance / Coefficient of Friction	ASTM D 2047	>0.90
VOC's / FloorScore / CHPS / CA	ASTM D5116	Pass
Color Stability	ASTM F-1515	Good
Chemical Resistance	ASTM F-925	Good
Abrasion Resistance	ASTM D 3389 / EN 649	<1g, 1000 cycle
Resistance to Heat	ASTM F 1514	Δ E <8.0
Flammability – Critical Radiant Flux	ASTM E648	Class II
Flammability – Pill Test	ASTM D2859	Pass
Vertical Deflection / Deformation	ASTM F 2772	0.5mm
Surface Effect Slip Resistance	ASTM F 2772	Pass
Ball Rebound	ASTM F 2772	100%
Force Reduction	ASTM F 2772	10%
Sheet Dimension	Manufacturer	4' wide x 25 LF min./ 1.22M x 7.62M
Standard Tolerance Width	Manufacturer	+3/4" -0" / +19 mm - 0
Standard Tolerance Length	Manufacturer	+ 1% - 0
Standard Tolerance Thickness	Manufacturer	+/- .6mm
Standard Sheet Weight	Manufacturer	2.4 lbs/sq ft / 11.72 kg/m <sup>2</sup>



2.3.4 Performance **Beast Plus** Rolls

<b>Stacked Performance <b>Beast Plus</b> Rolls with itsTRU™ Technology</b> <b>12mm - 8032 Underlayment / 2.5mm Surface Wear Layer</b>		
<p>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 reprocessed ColorMill™ EPDM surface wear layer.</p>		
Performance Criteria	Test Method	Result
Compression @ 100 psi	ASTM F-36	7%
Static Load Limit @250 psi	ASTM F970 @ 250PSI	0.008"
Slip Resistance / Coefficient of Friction	ASTM D2047	>0.90
VOC's / FloorScore / CHPS / CA 01350	ASTM D5116	Pass
Color Stability	ASTM F1515	Good
Chemical Resistance	ASTM F925	Good
Abrasion Resistance	ASTM D3389 / EN 649	<1g, 1000 cycles
Resistance to Heat	ASTM F1514	Δ E <8.0
Flammability – Critical Radiant Flux	ASTM E648	Class II
Flammability – Pill Test	ASTM D2859	Pass
Impact / Energy Abatement (5 kg mass)	Deltec Field tester	17.40%
Energy Restitution	Deltec Field tester	66.30%
Vertical Deformation	Deltec Field tester	1.3 mm
Impact Insulation Class (IIC)	ASTM E-492	55
Delta IIC (floor coverings)	ASTM E-2179	25
g-max	Clegg	268
Vertical Deflection / Deformation	ASTM F2772	0.6mm (Class B)
Vertical Ball Rebound	ASTM F2772	97.1% (Pass)
Force Reduction (20 kg mass)	ASTM F2772	12.6 (Class I)
Surface Effect Slip Resistance	ASTM F2772	93 BPV (Pass)
Sheet Dimension	Manufacturer	4' wide x 25 LF min./ 1.22M x 7.62M
Standard Tolerance Width	Manufacturer	+3/4" - 0" / +19 mm - 0
Standard Tolerance Length	Manufacturer	+ 1% - 0
Standard Tolerance Thickness	Manufacturer	+/- .6mm
Weight	Manufacturer	3.5 lbs/sf / 17.1 kg/m <sup>2</sup>

2.3.5 Performance Modzilla

<p align="center"><b>Performance Modzilla with itsTRU™ Technology</b>  <b>8mm - 8032 Underlayment / 2.5mm Surface Wear Layer</b>  <b>field-united to a 32 mm, 4735 Underlayment, Interlocking Tile Base Layer</b></p> <p align="center"><b>Total system thickness 62.5mm</b></p> <p>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 reprocessed ColorMill™ EPDM surface wear layer.</p>		
<b>Performance Criteria</b>	<b>Test Method</b>	<b>Result</b>
Compression @ 100 psi	ASTM F-36	N/A
Static Load Limit @250 psi	ASTM F970 @ 250PSI	N/A
Slip Resistance / Coefficient of Friction	ASTM D2047	>0.90
VOC's / FloorScore / CHPS / CA 01350	ASTM D5116	Pass
Color Stability	ASTM F1515	Good
Chemical Resistance	ASTM F925	Good
Abrasion Resistance	ASTM D3389 / EN 649	<1g, 1,000 cycles
Resistance to Heat	ASTM F1514	Δ E <8.1
Flammability – Critical Radiant Flux	ASTM E648	Class II
Flammability – Pill Test	ASTM D2859	Pass
Impact / Energy Abatement (5 kg mass)	Deltec Field tester	54.20%
Energy Restitution	Deltec Field tester	50.90%
Vertical Deformation	Deltec Field tester	4.4 mm
Impact Insulation Class (IIC)	ASTM E-492	56
Delta IIC (floor coverings)	ASTM E-2179	28
g-max	Clegg	80
Vertical Deflection / Deformation	ASTM F2772	4.9mm (Class A)
Vertical Ball Rebound	ASTM F2772	97.0% (Pass)
Force Reduction (20 kg mass)	ASTM F2772	54.2% (Class 4)
Surface Effect Slip Resistance	ASTM F2772	97 BPV (Pass)
Sheet Dimensions	Manufacturer	4' wide x 25 LF min./ 1.22M x 7.62M
Sheet Standard Tolerance Width	Manufacturer	+3/4" -0" / +19mm - 0
Sheet Standard Tolerance Length	Manufacturer	+ 1% - 0
Sheet Standard Tolerance Thickness	Manufacturer	+/- .6mm
Tile Dimensions	Manufacturer	24" x 48" / 60.96 cm x 121.92 cm
Tile Standard Tolerance Length	Manufacturer	+/- 0.5 inches / 12.7 mm
Tile Standard Tolerance Thickness	Manufacturer	+/- 0.7mm / 0.3 inches
Sheet plus Tile – System Weight	Manufacturer	7.9 lbs/sf / 38.6 kg/m <sup>2</sup>

2.3.6 Performance **Monster** Rolls

<p align="center"><b>Performance <b>Monster</b> Roll with itsTRU™ Technology</b>  <b>8mm 8032 underlayment / 2.5 mm EPDM surface wear layer,</b>  <b>field-united to a 12mm 4735 Base Layer</b></p> <p align="center"><b>Total system thickness 22.5mm</b></p> <p>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 reprocessed ColorMill™ EPDM surface wear layer.</p>		
<b>Performance Criteria</b>	<b>Test Method</b>	<b>Result</b>
Tensile Strength	ASTM D 412	200 psi min
Flexibility ¼" mandrel	ASTM F 137	Pass
Thermal Conductivity	ASTM C 518	1.3 Btu-in/h-ft-F
Static Load Limit	ASTM F 970 @ 250PSI	0.025"
Slip Resistance / Coefficient of Friction	ASTM D 2047	>0.8
VOC's / FloorScore / CHPS / CA 01350	ASTM D5116	Pass
Color Stability	ASTM F-1515	Δ E <8.0
Chemical Resistance	ASTM F-925	Pass
Abrasion Resistance	ASTM D 3389 / EN649	<1g, 100 cycle
Resistance to Heat	ASTM F 1514	Δ E <8.0
Flammability – Critical Radiant Flux	ASTM E648	Class II
Pill Test	ASTM D 2859	Pass
Vertical Deflection / Deformation	ASTM F 2772	1.6 mm Pass
Surface Effect Slip Resistance	ASTM F 2772	Pass
Ball Rebound	ASTM F 2772	100 %
Force Reduction	ASTM F 2772	40%
Sheet Dimension	Manufacturer	4' wide x 25 LF min./ 1.22M x 7.62M
Standard Tolerance Width	Manufacturer	+3/4", -0" / +19 mm - 0
Standard Tolerance Length	Manufacturer	+1% - 0
Standard Tolerance Thickness	Manufacturer	± .6 mm
Monster Roll with 8mm Wear Layer Weight	Manufacturer	2.4 lbs/sf / 11.72 kg/m <sup>2</sup>
12mm Underlayment Weight	Manufacturer	1.7 lbs/sf / 8.3 kg/m <sup>2</sup>
Total Sheet Weight	Manufacturer	4.1 lbs/sf / 20.02 kg/m <sup>2</sup>

2.3.7 32 mm Interlocking 4735 Underlayment Tile

<b>32 mm Interlocking 4735 Underlayment Tile (for Modzilla)</b>		
Made from a formulation of high-quality post-consumer vulcanized composition rubber granules encapsulated in a wear and water-resistant elastomeric network		
Performance Criteria	Test Method	Result
Tile width	Manufacturer	24 in.
Tile length	Manufacturer	48 in.
Tile thickness	Manufacturer	32 mm
VOC's / FloorScore / CHPS / CA 01350	ASTM D5116	Pass
Standard tolerance width	Manufacturer	+3/4" -0" / +19mm - 0
Standard tolerance length	Manufacturer	+1% -0
Standard tolerance thickness	Manufacturer	± .5 mm
Tile weight	Manufacturer	5.5 lbs/sf / 26.85 kg/m <sup>2</sup>

2.3.8 E-Grip III one-component polyurethane adhesive

Product Name	One-part urethane adhesive under this specification shall be Ecore's E-Grip III™ one-component urethane adhesive.
Material	E-Grip III is a one-component urethane moisture cured, permanently elastic adhesive that has excellent adhesion to elastomers, concrete, and wood and is engineered for indoor and outdoor applications.
Adhesive Type	One-component urethane
Adhesive Cure System	Moisture cured
Weight	4-gallon pail - 56 lbs 2-gallon pail – 28 lbs 10.1 oz cartridge -1.3 lbs
Color	Medium Grey
VOC Content	0 lb/gal calculated
Freeze/Thaw	Stable
Application Temperature	40° F - 100° F
Relative Humidity (RH) Test (ASTM F2170)	Maximum 85%
Flashpoint	>500 ° F
Shelf Life	12 months
Working Time	30-40 minutes
Trowels	1/16" x 1/16" x 1/16" square notch 1/8" x 1/8" x 1/8" square notch
Coverage Rate	95 ft <sup>2</sup> / gal. – 1/16" x 1/16" x 1/16" 60 ft <sup>2</sup> / gal. – 1/8" x 1/8" x 1/8"
SCAQMD Rule #1168	0 lb./gal. calculated

## 2.4 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

## 2.5 RELATED MATERIALS

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

## 2.6 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 Flooring Installation: Comply with Ecore Athletic Installation Manual for installation procedures and techniques for Performance Collection Rolls and Interlocking Tiles - vulcanized composition rubber resilient flooring installation.
- 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 visits 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 finished surfaces from damage during construction.

### 3.8 SCHEDULES

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

**END OF SECTION**