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**DIVISION 9 Finishes - SECTION 09 68 13 Tile Carpeting  
Pinnacle 2 Interlocking and Straight Edge Carpet Tile**

## **PART 1.0 - GENERAL**

### 1.1 SUMMARY

- A. The work of this section includes:
  - 1. Pinnacle 2 interlocking carpet tiles
  - 2. Pinnacle 2 straight edge carpet tiles
  - 3. E-Releasable Adhesive
- 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 C177 Thermal Conductivity
  - 2. ASTM C1028 Coefficient of Friction Wet & Dry Slip Resistance
  - 3. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
  - 4. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
  - 5. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
  - 6. ASTM D2859 Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
  - 7. ASTM C1028 Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method
- C. American Association of Textile Chemists and Colorists (AATCC)
  - 1. AATCC Technical Manual 134 Electrostatic Propensity of Carpets
  - 2. AATCC Technical Manual 16E Color Fastness To Light
  - 3. AATCC Technical Manual 107 Color Fastness To Water
  - 4. AATCC Technical Manual 138 Color Fastness To Shampoo
  - 5. AATCC Technical Manual 165 Color Fastness To Rubbing Dry & Wet
  - 6. AATCC 171 This test method provides a laboratory procedure to clean textile floor coverings by a technique simulating cleaning of installed floor coverings by hot water extraction, sometimes erroneously called "steam cleaning."

7. AATCC 175 This test method is used to determine the resistance to staining by acid food colors on pile floor coverings.

- D. European Committee for Standardization (EN)
  1. BS EN 985 Textile floor coverings. Castor chair test
- E. International organization for Standardization (ISO )
  1. ISO 2551 / ITTS 104

### 1.3 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide Pinnacle 2, 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:
  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.
  3. Manufacturer's Field Reports: Manufacturer's field reports specified herein.
- G. Closeout Submittals:
  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 itstru technology 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 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@ecoreintl.com](mailto:info@ecoreintl.com)

### 2.2 DISTRIBUTOR: Ecore Commercial Flooring

- A. Address: 119 South Tree Drive, Lancaster, PA 17603; Telephone: (877) 258-0843, (717) 299-5035; Fax: (717) 394-1937; Email: [info@ecorecommercialflooring.com](mailto:info@ecorecommercialflooring.com)

### 2.3 PROPRIETARY PRODUCT(S)

- A. Flooring and adhesives manufactured by Ecore International for commercial applications.
1. Pinnacle 2 Interlocking Tile with itstru-5 technology. Consisting of a 5mm underlayment fusion bonded to a polyester fabric wear layer.
  2. Pinnacle 2 Straight Tile with itstru-5 technology. Consisting of a 5mm underlayment fusion bonded to a polyester fabric wear layer.
  3. E-Releasable acrylic releasable adhesive for bonding Pinnacle 2 tiles to substrate.

#### 2.3.1 Pinnacle 2 [Interlocking Tile] Flooring

- A. Product Name: The fusion bonded, double layer, rubber surface furnished under this specification shall be Pinnacle 2.
- B. Material: Fabric face, consisting of 75% polypropylene and 25% polyethylene; fusion bonded to a 97% post-consumer recycled rubber backing. Backing consisting of high quality recycled rubber granules encapsulated in a wear and water resistant elastomeric network.
- C. Tile Dimension: Pinnacle 2 will have a nominal overall thickness of 3/8" [10mm Standard] Width: 23", Length: 23", Overall: 3.673 square foot per tile
- D. Tile Weight: 4.04 lbs [ 1.83 kg ] per tile
- E. Colors: Specify color from manufacturer's standard colors.

Performance Criteria	Test Method	Result
Surface flammability ("pill test")	ASTM D2859	Pass
Coefficient of friction / slip resistance	ASTM C1028	0.6 (wet & dry)
Electrostatic propensity	AATCC 134	Step= -0.03kV; Scuff= -0.2 kV
Colorfastness to light	AATCC 16E	5 = No Change
Colorfastness to water	AATCC 107	5 = No Change
Colorfastness to rubbing	AATCC 165	5 = No Change
Colorfastness to shampoo	AATCC 138	5 = No Change
Carpet Hot Water Extraction	AATCC 171	5 = No Change
Stain resistance	AATCC 175	10 = No Staining
Caster chair test / Roll Chair	BS EN 985	considerable change after 25,000
Static Load Limit / Residual Indent. /	ITTS 412	21% @ 24 hrs. / 95% @ 72 hrs.
Aachen Dimensional Stability	ISO 2551 / ITTS 104	MD = +0.012% AMD = +0.029%

## 2.3.2 Pinnacle 2 [Straight Edge Tile] Flooring

- A. Product Name: The fusion bonded, double layer, rubber surface furnished under this specification shall be Pinnacle 2.
- B. Material: Fabric face, consisting of 75% polypropylene and 25% polyethylene; fusion bonded to a 97% post-consumer recycled rubber backing. Backing consisting of high quality recycled rubber granules encapsulated in a wear and water resistant elastomeric network.
- C. Tile Dimension: Pinnacle 2 will have a nominal overall thickness of 3/8" [10mm Standard] Width: 24", Length: 24", Overall: 4 square foot per tile
- D. Tile Weight: 4.4 lbs [ 1.99 kg ] per tile
- E. Colors: Specify color from manufacturer's standard colors.

Performance Criteria	Test Method	Result
Surface flammability ("pill test")	ASTM D2859	Pass
Coefficient of friction / slip resistance	ASTM C1028	0.6 (wet & dry)
Electrostatic propensity	AATCC 134	Step= -0.03kV; Scuff= -0.2 kV
Colorfastness to light	AATCC 16E	5 = No Change
Colorfastness to water	AATCC 107	5 = No Change
Colorfastness to rubbing	AATCC 165	5 = No Change
Colorfastness to shampoo	AATCC 138	5 = No Change
Carpet Hot Water Extraction	AATCC 171	5 = No Change
Stain resistance	AATCC 175	10 = No Staining
Caster chair test / Roll Chair	BS EN 985	considerable change after 25,000
Static Load Limit / Residual Indent. /	ITTS 412	21% @ 24 hrs. / 95% @ 72 hrs.
Aachen Dimensional Stability	ISO 2551 / ITTS 104	MD = +0.012% AMD = +0.029%

## 2.3.3 E-Releasable Adhesive

- A. Product Name: The releasable adhesive under this specification shall be E-CORE's E-Releasable adhesive
- B. Material: E-Releasable is a premium quality releasable adhesive that has excellent adhesion to concrete and wood and is engineered for use with rubber backed carpet tile.
- C. Adhesive Type: Acrylic polymer
- D. Adhesive Installation System: Releasable or permanent bonding of rubber back carpet tile.
- E. Weight: 4 gallon pail-40 lbs
- F. Color: Amber
- G. VOC Content: .4 lbs/gal (48g/l)
- H. Antimicrobial: Yes
- I. Freeze/Thaw: Protect from freezing

J. Application Temperature:	65°F and 85°F (18°C and 29°C).
K. Calcium Chloride Test: (ASTM F1869)	Maximum 8 lbs per 1,000 sq. ft. in 24 hrs. "Diminishing"
L. Relative Humidity (RH) Test (ASTM F2170)	Maximum 90% "Diminishing"
M. Flashpoint:	> 212° F (100° C)
N. Shelf Life:	24 months stored at 73° F (23° C)
O. Working Time:	8-12 hours pressure sensitive bonding 15-30 minutes permanent bonding over porous substrate 30-45 minutes permanent bonding over non-porous substrate
P. Trowel:	1/16" x 1/16" x 1/16" square notch
Q. Coverage Rate:	125 to 150 ft <sup>2</sup> / gal. – 1/16" x 1/16" x 1/16" (approximate)

#### 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 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. Fusion Bonded Rubber Flooring Installation: Comply with manufacturer's 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 is 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**