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DIVISION 9 - SECTION 09 60 00.11

Attain Luxury Vinyl Tile and Plank for use in Residential or Commercial Applications

PART 1.0 - GENERAL

1.1 SUMMARY

- A. The work of this section includes:
 - 1. Luxury Vinyl Tile and Plank
 - 2. Luxury Vinyl Click Lock Tile and Plank
 - 3. Adhesives
- B. Related Sections: Section(s) related to this section include:
 - 1. Concrete Substrate
 - 2. Plywood Substrate:

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 Division 1 References Section 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 used in this section.

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 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
 - 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 F386 - Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces
 - 6. ASTM F2055 - Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method
 - 7. ASTM F2199 - Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat
 - 8. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile

9. ASTM F970 - Standard Test Method for Static Load Limit
 10. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
 11. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
- C. South Coast Air Quality Management District (SCAQMD) Rule #1168
1. VOC standards for adhesive and sealant applications
- D. 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 recycled 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 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. 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.
- G. Closeout Submittals: Submit the following:
1. 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.
- B. Regulatory Requirements: [specify applicable requirements of regulatory agencies].
 - C. 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.
 - D. 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.
 - E. 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.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section.

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.

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.

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

2.2 PROPRIETARY PRODUCT(S)

- A. Attain Luxury Vinyl Planks, Tiles, and Adhesives manufactured by Ecore for interior residential and commercial applications.
1. E-Grip Evolve high performance wet set acrylic adhesive
 2. Attain 2mm Luxury Vinyl Plank (LVP)
 3. Attain 2mm Luxury Vinyl Tile (LVT)
 4. Attain 2.5mm Luxury Vinyl Plank (LVP)
 5. Attain 2.5mm Luxury Vinyl Tile (LVT)
 6. Attain 4.2mm Click Luxury Vinyl Plank (Click LVP)
 7. Attain 4.2mm Click Luxury Vinyl Tile (Click LVT)

2.3.1 E-Grip Evolve High Performance wet set acrylic adhesive

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| A. Product Name: | The High Performance, wet set, acrylic adhesive under this specification shall be Egrid-Evolve. |
| B. Material: | E-Grip Evolve is a high performance, wet set acrylic adhesive designed for use with Ecore's 2mm and 2.5mm Attain Luxury Vinyl Tile and Luxury Vinyl Plank. |
| C. Adhesive Type: | Vinyl Acrylic Polymer |
| D. Weight: | 4 gallon pail (34 lbs), 1 gallon pail (9 lbs) |
| E. Color: | Off-white |
| F. VOC Content: | .28 lbs/gal (34 g/l) |
| G. SCAQMD Rule #1168 | .28 lb./gal. (34 g/l) pass |
| H. Freeze/Thaw: | protect from freezing, stable up to 5 cycles at 0°F (-18°C) |
| I. Calcium Chloride Test:
(ASTM F1869) | Maximum 5 lbs per 1,000 sq. ft. in 24 hrs. |
| J. Relative Humidity (RH) Test
(ASTM F2170) | Maximum 80% |
| K. Flashpoint: | > 212° F (100° C) |
| L. Shelf Life: | 2 years when stored at 73° F (23° C) |

2.3.2 Attain 2mm Luxury Vinyl Plank Flexible PVC [Plank] Resilient Flooring

A. Product Name:	Attain Luxury Vinyl Plank
B. Material:	Flexible PVC with a 0.07mm print film layer; 1.73mm backing; and a 0.20mm clear PVC wear layer containing a polyurethane coating.
C. Plank Dimension:	Attain Luxury Vinyl Plank shall measure [2.0mm] thickness standard; 6" width; 36" length
D. Plank Weight:	(2.0mm) 0.90 lbs/plank
E. Plank Tolerances:	Size: ± 0.016 in./lin. Ft (0.4 mm/305 mm) Thickness: ± 0.005 in. (0.13 mm) Squareness: maximum 0.010 in. (0.25mm)
F. Flame Spread (ASTM E648)	>0.45 watts/cm ² Class I
G. Smoke Density (ASTM E662)	<450 pass
H. Static Load Limit (ASTM F970)	0.005"
I. Abrasion Resistance (ASTM D3389)	1 pass
J. Slip Resistance (ASTM D2047)	>0.5

2.3.3 Attain 2mm Luxury Vinyl Tile Flexible PVC [Tile] Resilient Flooring

A. Product Name:	Attain Luxury Vinyl Tile
B. Material:	Flexible PVC with a 0.07mm print film layer; 1.73mm backing; and a 0.20mm clear PVC wear layer containing a polyurethane coating.
C. Tile Dimension:	Attain Luxury Vinyl Tile shall measure [2.0mm] thickness standard; 18" width; 18" length
D. Tile Weight:	(2.0mm) 1.35 lbs/tile
E. Tile Tolerances:	Size: + 0.016 in./lin. Ft (0.4 mm/305 mm) Thickness: + 0.005 in. (0.13 mm) Squareness: maximum 0.010 in. (0.25mm)
F. Flame Spread (ASTM E648)	>0.45 watts/cm ² Class I
G. Smoke Density (ASTM E662)	<450 pass
H. Static Load Limit (ASTM F970)	0.005"
I. Abrasion Resistance (ASTM D3389)	1 pass
J. Slip Resistance (ASTM D2047)	>0.5

2.3.4 Attain 2.5mm Luxury Vinyl Plank Flexible PVC [Plank] Resilient Flooring

A. Product Name:	Attain Luxury Vinyl Plank
B. Material:	Flexible PVC with a 0.07mm print film layer; 1.93mm backing; and a 0.50mm clear PVC wear layer containing a polyurethane coating.
C. Plank Dimension:	Attain Luxury Vinyl Plank shall measure [2.5mm] thickness standard; 6" width; 36" length
D. Plank Weight:	(2.5mm) 1.20 lbs/plank
E. Plank Tolerances:	Size: ± 0.016 in./lin. Ft (0.4 mm/305 mm) Thickness: ± 0.005 in. (0.13 mm) Squareness: maximum 0.010 in. (0.25mm)
F. Flame Spread (ASTM E648)	>0.45 watts/cm ² Class I
G. Smoke Density (ASTM E662)	<450 pass
H. Static Load Limit (ASTM F970)	0.005"
I. Abrasion Resistance (ASTM D3389)	1 pass
J. Slip Resistance (ASTM D2047)	>0.5

2.3.5 Attain 2.5mm Luxury Vinyl Tile Flexible PVC [Tile] Resilient Flooring

A. Product Name:	Attain Luxury Vinyl Tile
B. Material:	Flexible PVC with a 0.07mm print film layer; 1.93mm backing; and a 0.50mm clear PVC wear layer containing a polyurethane coating.
C. Tile Dimension:	Attain Luxury Vinyl Tile shall measure [2.5mm] thickness standard; 18" width; 18" length
D. Tile Weight:	(2.5mm) 1.80 lbs/tile
E. Tile Tolerances:	Size: ± 0.016 in./lin. Ft (0.4 mm/305 mm) Thickness: ± 0.005 in. (0.13 mm) Squareness: maximum 0.010 in. (0.25mm)
F. Flame Spread (ASTM E648)	>0.45 watts/cm ² Class I
G. Smoke Density (ASTM E662)	<450 pass
H. Static Load Limit (ASTM F970)	0.005"
I. Abrasion Resistance (ASTM D3389)	1 pass
J. Slip Resistance (ASTM D2047)	>0.5

2.3.6 Attain 4.2mm Click Luxury Vinyl Plank Flexible PVC [Plank] Resilient Flooring

A. Product Name:	Attain Click Luxury Vinyl Plank
B. Material:	Flexible PVC with a 0.07mm print film layer; 3.63mm backing; and a 0.50mm clear PVC wear layer containing a polyurethane coating.
C. Plank Dimension:	Attain Luxury Vinyl Plank shall measure [4.2mm] thickness standard; 7" width; 48" length
D. Plank Weight:	(4.2mm) 2.90 lbs/plank
E. Plank Tolerances:	Plank thickness: pass (ASTM F386) Squareness: pass (ASTM F2055) Dimensional Stability: pass (ASTM F2199)
F. Flame Spread (ASTM E648)	0.78 watts/cm ² Class I
G. Smoke Density (ASTM E662)	Pass
H. Static Load Limit (ASTM F970)	0.005"
I. Abrasion Resistance (ASTM D3389)	Pass
J. Slip Resistance (ASTM D2047)	>0.5

2.3.7 Attain 4.2mm Click Luxury Vinyl Plank Flexible PVC [Tile] Resilient Flooring

A. Product Name:	Attain Click Luxury Vinyl Tile
B. Material:	Flexible PVC with a 0.07mm print film layer; 3.63mm backing; and a 0.50mm clear PVC wear layer containing a polyurethane coating.
C. Tile Dimension:	Attain Luxury Vinyl Tile shall measure [4.2mm] thickness standard; 12" width; 24" length
D. Tile Weight:	(4.2mm) 2.48 lbs/tile
E. Tile Tolerances:	Tile thickness: pass (ASTM F386) Squareness: pass (ASTM E2055) Dimensional Stability: pass (ASTM F2199)
F. Flame Spread (ASTM E648)	0.78 watts/cm ² Class I
G. Smoke Density (ASTM E662)	Pass
H. Static Load Limit (ASTM F970)	0.005"
I. Abrasion Resistance (ASTM D3389)	Pass
J. Slip Resistance (ASTM D2047)	>0.5

2.4 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

2.5 RELATED MATERIALS 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].

3.4 ERECTION/INSTALLATION/APPLICATION/CONSTRUCTION

- A. Luxury Vinyl Plank and Tile Installation: Comply with manufactures' 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