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DIVISION 9 - SECTION 09 60 00
QTrbm Vulcanized Composition Rubber Sound Underlayment

PART 1.0 - GENERAL

1.1 SUMMARY

- A. The work of this section includes:
 - 1. QTrbm Vulcanized Composition Rubber Sound Underlayment.
 - 2. QT Polyethylene Foam Perimeter Isolation Strip
- B. Related Sections: Section(s) related to this section include:
 - 1. Concrete Substrate
 - 2. Plywood Substrate
 - 3. Noise Control and Vibration Isolation

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 International):
 - 1. See – Part 2.0 PROPRIETARY PRODUCTS below
- 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 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 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 thicknesses, 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. Provide manufacturer's warranty commencing from 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 Vulcanized Composition 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: salesupport@ecoreintl.com

2.2 PROPRIETARY PRODUCT(S)

- A. QTrbm® Vulcanized Composition Rubber Underlayment and Adhesives
 1. QT Polyethylene Foam Perimeter Isolation Strip
 2. QTrbm 3006.3 Vulcanized Composition Rubber Sound Underlayment
 3. QTrbm 3010-5 Vulcanized Composition Rubber Sound Underlayment
 4. QTrbm 3017-8 Vulcanized Composition Rubber Sound Underlayment
 5. QTrbm 3025-7 Vulcanized Composition Rubber Sound Underlayment

2.3.1 QT Polyethylene Foam Perimeter Isolation Strip

- A. Product Name: The single-ply white polyethylene foam perimeter isolation strip under this specification shall be Ecore's Polyethylene Foam Perimeter Isolation Strip.
- B. Material: Made from white polyethylene foam, Perimeter Isolation Strip is a flat, resilient strip that is used around the perimeter wall,

so no hard surface (floor covering) touches any hard vertical surface (protrusion or wall).

- C. Sheet Dimension: Perimeter isolation strip will have an overall thickness of 15/64" [6mm] in 2 1/2" by 50' [64mm by 1,5240mm]

2.3.2 QTrbm 3006-3 Vulcanized Composition Rubber Resilient [sheet] Impact Sound Underlayment

- A. Product Name: The Impact Sound Underlayment furnished under this specification shall be Ecore's **QTrbm** Vulcanized Composition Rubber Impact Sound Underlayment.
- B. Material: Made from a formulation of high-quality post-consumer Vulcanized Composition Rubber granules encapsulated in a wear and water resistant elastomeric network. QTrbm is a , dimpled, resilient base mat that can be applied under gypsum or full weight concrete to produce some of the thinnest sound rated systems in the industry.
- C. Sheet Dimension: QTrbm Impact Sound Underlayment will have an overall thickness of [6mm] standard in 4.5' by 30' [1.37 by 9.14M]
- D. Sheet Standard Tolerances: Roll width: + 1/2" - 1/4"
Roll length: +1% - 0%
Thickness: ±1. 0 mm
- E. Laboratory Impact Insulation Class: Specified floor-ceiling assembly must be tested in an ASTM compliant laboratory accredited by an ILAC-recognized accreditation body such as IAS or NVLAP (per ISO/IEC17025). (ASTM E492)
- F. Field Impact Insulation Class: Floor-ceiling assembly must meet requirement as stated by building code and/or acoustical consultant. (ASTM E1007)
- G. ICC-ES Certified Yes
- H. Sustainability: data collected (ASTM E2179)
- I. VOC Washington State IAQ Test: pass (ASTM D5116)

2.3.3 QTrbm 3010-5 Vulcanized Composition Rubber Resilient [sheet] Impact Sound Underlayment

- A. Product Name: The non-laminated, single ply, rebonded rubber underlayment furnished under this specification shall be Ecore's **QTrbm** Vulcanized Composition Rubber Impact Sound Underlayment
- B. Material: Made from a formulation of high quality post-consumer Vulcanized Composition Rubber granules encapsulated in a wear resistant elastomeric network with multiple colored and reprocessed ColorMill™ EPDM rubber. QTrbm is a dimpled, resilient base mat that can be applied under gypsum or full weight concrete to produce some of the thinnest sound rated systems in the industry.

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| C. | Sheet Dimension: | QTrbm Impact Sound Underlayment will have an overall thickness of [10mm] standard in 4.5' by 30' [1.37M by 9.14M] |
| D. | Sheet Weight: | (10mm) 1.0 lb./ft ² [5.1 kg/m ²] |
| E. | Sheet Standard Tolerances: | Roll width: + ½" – ¼"
Roll length: +1% - 0%
Thickness: ± 1.0 mm |
| F. | Laboratory Impact Insulation Class: (ASTM E492) | Specified floor-ceiling assembly must be tested in an ASTM compliant laboratory accredited by an ILAC-recognized accreditation body such as IAS or NVLAP (per ISO/IEC17025). |
| G. | Field Impact Insulation Class: (ASTM E1007) | Floor-ceiling assembly must meet requirement as stated by building code and/or acoustical consultant. |
| H. | ICC-ES Certified | No |
| I. | Sustainability: (ASTM E2179) | data collected |
| J. | VOCs / CHPS / CA 01350 (ASTM D5116) | pass |

2.3.4 QTrbm 3017-8 Vulcanized Composition Rubber Resilient [sheet] Impact Sound Underlayment

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|----|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. | Product Name: | The rubber underlayment furnished under this specification shall be Ecore's QTrbm Vulcanized Composition Rubber Impact Sound Underlayment. |
| B. | Material: | Made from a formulation of high-quality post-consumer Vulcanized Composition Rubber granules encapsulated in a wear and water resistant elastomeric network. QTrbm is a dimpled, resilient base mat that can be applied under gypsum or full weight concrete to produce some of the thinnest sound rated systems in the industry. |
| C. | Sheet Dimension: | QTrbm Impact Sound Underlayment will have an overall thickness of [17mm] standard in 4.5' by 30' [1.37M by 9.14M] |
| D. | Sheet Standard Tolerances: | Roll width: + ½" – ¼"
Roll length: +1% - 0%
Thickness: ± 1.0 mm |
| E. | Laboratory Impact Insulation Class: (ASTM E492) | Specified floor-ceiling assembly must be tested in an ASTM compliant laboratory accredited by an ILAC-recognized accreditation body such as IAS or NVLAP (per ISO/IEC17025). |
| F. | Field Impact Insulation Class: (ASTM E1007) | Floor-ceiling assembly must meet requirement as stated by building code and/or acoustical consultant. |
| G. | ICC-ES Certified | No |
| H. | Sustainability: (ASTM E2179) | data collected |
| I. | VOCs / CHPS / CA 01350 (ASTM D5116) | pass |

2.3.5 QTrbm 3025-7 Vulcanized Composition Rubber Resilient [sheet] Impact Sound Underlayment

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|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A. Product Name: | The underlayment furnished under this specification shall be Ecore's QTrbm Vulcanized Composition Rubber Impact Sound Underlayment |
| B. Material: | Made from a formulation of high quality post-consumer Vulcanized Composition Rubber granules encapsulated in a wear and water resistant elastomeric network.
QTrbm is a dimpled, resilient base mat that can be applied under gypsum or full weight concrete to produce some of the thinnest sound rated systems in the industry. |
| C. Sheet Dimension: | QTrbm Impact Sound Underlayment will have an overall thickness of [25mm] standard in 4' by 30' [1.22M by 9.14M] |
| D. Sheet Standard Tolerances: | Roll width: + 1/2" – 1/4"
Roll length: +1% - 0%
Thickness: ±.1.0 mm |
| E. Laboratory Impact Insulation Class: (ASTM E492) | Specified floor-ceiling assembly must be tested in an ASTM compliant laboratory accredited by an ILAC-recognized accreditation body such as IAS or NVLAP (per ISO/IEC17025). |
| F. Field Impact Insulation Class: (ASTM E1007) | Floor-ceiling assembly must meet requirement as stated by building code and/or acoustical consultant. |
| G. ICC-ES Certified | No |
| H. Sustainability: (ASTM E2179) | data collected |
| I. VOCs / CHPS / CA 01350 (ASTM D5116) | pass |

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 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. Surfaces shall be prepared in accordance with manufacturer's instructions

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

3.4 ERECTION/INSTALLATION/APPLICATION/CONSTRUCTION

- A. Vulcanized Composition Rubber Impact Sound Insulation: Comply with the Manufacturer's Technical Manual for procedures and techniques for Vulcanized Composition Rubber Impact Sound Insulation installation.
- B. Related Products Installation: Refer to other sections listed in Related Sections paragraph herein for related products installation.
- C. Installation should not begin until all other trades are finished in the area.
- D. Areas to receive the Vulcanized Composition Rubber Impact Sound Insulation should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during, and after the 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.
 - A. 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

Specifier Note: Retain paragraph below to suit project requirements. Reference a schedule or include a schedule as an attachment, which indicates where to locate products and equipment.

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

END OF SECTION