



**July 11, 2024** -This document is provided solely as a convenience for spec writers in the drafting process. Centaur will not be held responsible for the use or alteration of any information contained herein. For a final approved PDF version of these specifications, please visit [www.centaurfloors.com](http://www.centaurfloors.com)

**DIVISION 9 - SECTION 09 60 00**  
**Centaur Sound Reducer Vulcanized Composition Rubber Impact Sound Insulation**

## **PART 1.0- GENERAL**

### 1.1 SUMMARY

- A. The work of this section includes:
  - 1. Centaur Sound Reducer Vulcanized Composition Rubber Impact Sound Insulation
  - 2. Perimeter Isolation Strip
  
- B. Related Sections: Section(s) related to this section include:
  - 1. Concrete Substrate
  - 2. Plywood Substrate
  - 3. Ceramic Tile
  - 4. Carpeting
  - 5. Wood Flooring
  - 6. Resilient Flooring
  - 7. Sound 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 MANUFACTURER/PRODUCTS below
  
- 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 sound underlayment, 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: Manufacturer's specifications, catalog cuts, and other items needed to demonstrate compliance with the specified requirements. Also the manufacturer's recommended installation procedures, which, when approved by the architect, will become the basis for accepting or rejecting actual installation procedures used on the work.
- E. Samples: Submit selection and verification samples for thickness, 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. Comply with workmanship standard. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.
  - 1. Mock-Up Size: As determined by acoustical consultant
  - 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, and 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 are 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 Impact Sound Insulation 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**

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](mailto:salesupport@ecoreintl.com)

2.2 DISTRIBUTOR: Centaur Floor Systems

- A. Address: 715 Fountain Ave., Lancaster, PA 17601; Telephone: (800) 322-1923, (717) 295-3400; Fax: (717) 295-3414; Email: [salesupport@ecoreintl.com](mailto:salesupport@ecoreintl.com)

2.3 PROPRIETARY PRODUCT(S)

- A. Sound Reducer Vulcanized Composition Rubber Impact Sound Insulation and Accessories.

1. Centaur Perimeter Isolation Strip
2. Centaur 2mm Vulcanized Composition Rubber Sound Control Underlayment
3. Centaur 5mm Vulcanized Composition Rubber Sound Control Underlayment
4. Centaur 10mm Vulcanized Composition Rubber Sound Control Underlayment
5. Centaur 12mm Vulcanized Composition Rubber Sound Control Underlayment

2.3.1 Sound Reducer Polyethylene Foam Perimeter Isolation Strip

<b>Sound Reducer Polyethylene Foam Perimeter Isolation Strip</b>	
A single-ply, flat polyethylene foam roll. Used at the perimeter walls to isolate the vibration transmission path between the floor and the wall.	
Material	Expanded, closed cell polyethylene foam
Roll Dimensions	1/4" [6mm] thick x 2 1/2" [6.4cm] wide x 50LF [15.2m] long

2.3.2 Sound Reducer Vulcanized Composition Rubber Impact Sound Insulation

<b>Sound Reducer Vulcanized Composition Rubber Resilient Impact Sound Insulation</b>		
Sound Reducer is a flat, resilient underlayment used directly under a variety of floor finishes, yielding exceptional results for impact sound insulation and substrate crack isolation. 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
Sheet Dimensions	Manufacturer	Sound Reducer rolled rubber underlayment will have an overall thickness of __: Specify: <ul style="list-style-type: none"> <li>• 2 mm – standard in 4' x 75' [1.2 m by 22.9 m] roll</li> <li>• 5 mm – standard in 4' x 30' [1.2 m by 9.1 m] roll</li> <li>• 10 mm – standard in 4' x 15' [1.2 m by 4.6 m] roll</li> <li>• 12 mm – standard in 4' x 15' [1.2 m by 4.6 m] roll</li> </ul>
Dimensional Tolerances	Manufacturer	Roll width: + 3/4" - 0" Roll length: +1% - 0" Thickness: ± 0.4mm
Impact Insulation Class (Lab)	ASTM E492	Specified floor-ceiling assembly must be tested in a fully accredited laboratory, compliant with the international accreditation standard (ISO/IEC 17025) and comply with ASTM standards.
Field Impact Sound Transmission Reduction	ASTM E1007	Floor-ceiling assembly must meet requirement as stated by building code and/or acoustical consultant.

Density	ASTM D297	50 lbs/ft <sup>3</sup> , min, typical
Tensile Strength	ASTM D412, Die C	80 psi, min
Tear Strength	ASTM D624, Die C	30 ppi, min
Compression @ 100 psi recovery	ASTM F36	20-30%, 85%, min.
Shore A Hardness	ASTM D2240	50 to 58
Flexibility	ASTM F147	1 factor, max.
Compression Set B, 25% Deflection, 158°/22 hrs	ASTM D395	40% max.
Crack Resistance	ANSI 118.12 5.4	High Performance
VOC / CHPS / CA 01350	ASTM D5116	Pass

## 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 impact sound insulation 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: Surfaces shall be prepared in accordance with manufacturer's instructions.

## 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

- A. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations in accordance with manufacturer's instructions.

- B. Field Tests should be performed by an independent acoustical laboratory accredited by the U.S. Department of Commerce, National Institute of Standards and Technology under the National Voluntary Laboratory Accreditation Program for the specified test procedure.
- C. The cost for all field acoustical testing, corrective work associated with the installation of the Vulcanized Composition Rubber Impact Sound Insulation, and flooring to meet the minimum requirements, shall be borne by the flooring contractor(s).

### 3.6 CLEANING

- A. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. 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**