

Commercial Acoustics AcoustiStep Specification

Division 09 – Finishes

Section 09 65 00 – Resilient Flooring

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes:

1. AcoustiStep by Commercial Acoustics resilient flooring underlayment.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract including supplements and addendums.
- B. Applicable Specification Sections: Division 01 – General and Division 09 – Finishes.

1.3 REFERENCES

A. International Building Code (IBC) 2012:

1. Section 1207 – *Sound Transmission*

B. ASTM Tests:

1. E492 – *Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine.*
2. E989 – *Standard Classification for Determination of Impact Insulation Class (IIC).*
3. E2179 – *Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors.*
4. E413 – *Classification for Rating Sound Insulation.*

1.4 SUBMITTALS

A. For each product indicated:

1. Product Data Sheet: manufacturer's specifications including laboratory test summary.
2. Installation Instructions: detailed installation procedure including jobsite condition and surface preparation requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. All materials shall be delivered in original unopened packaging.
- B. Materials to be stored in a dry environment at temperatures ranging from 40-95 degrees (F)
 1. Materials should be allowed to acclimate to environment prior to installation in 65 degrees (F) or greater for 24 hours or more to reduce material stiffness when unrolling.

1.6 PROJECT CONDITIONS

- A. Installation of underlayment product to occur after the space is 100% dried in (all windows and doors installed), preferably after drywall installation.
- B. Finished floor to be installed within two (2) weeks after AcoustiStep installation, if possible.
 1. Underlayment shall be protected from heavy wear, including the use of stilts, hand trucks, and other heavy equipment.

PART 2 – PRODUCTS

2.1 ACOUSTISTEP BY COMMERCIAL ACOUSTICS

A. Materials:

1. Highly engineered sound-damping underlayment, designed to be installed under any style flooring – tile, LVT, laminate, hardwood, and more.
2. 100% pre-consumer recycled rubber. Qualifies for LEED credit.

B. Dimensions:

1. Thickness: Available in 2mm, 3mm, 5mm, and 10mm nominal thicknesses.
2. Standard Sizes:
 - a. 2mm: 0.33psf, 4'x50' (200sf) rolls
 - b. 3mm: 0.50psf, 4'x50' (200sf) rolls
 - c. 5mm: 0.84psf, 4'x25' (100sf) rolls
 - d. 10mm: 1.67psf, 4'x25' (100sf) rolls

C. Performance:

1. Delta-IIC = 21 (ASTM E2179). Delta-IIC = 25 (Hollow-core slab).
2. Flammability Rating:
 - a. Class 1 (ASTM E84 Rev. A)
 - b. Tested as a rubber floor in accordance with BS EN ISO 9239-1: 2002.
 - c. Meets or exceeds all fire code requirements.
3. Environmental:
 - a. 100% pre-consumer recycled rubber. Qualifies for LEED points. Reduces landfill and protects the environment.
 - b. 100% recyclable at end of life.

PART 3 – EXECUTION

3.1 PREPARATION

- A. Inspect substructure prior to installation.
- B. Follow the subfloor preparation instructions and recommendations of the flooring manufacturer.
- C. Only qualified and structurally sound subfloors are to receive AcoustiStep.
- D. Sweep, vacuum, and remove all debris from the subfloor prior to rolling out AcoustiStep.
 1. Subfloor shall be free of solvents. Mechanically remove old adhesives and paints where applicable.
 2. See specifications of manufacturer approved adhesives if glue-down application is required.
 3. LVT/LVP:
 - 2mm, 3mm: double glue down (AcoustiStep to subfloor and flooring to AcoustiStep).
 - 5mm+: single glue down (flooring to AcoustiStep only).
- E. Remedy any holes, gaps, or breaks that may exist in the substructure.
- F. Vapor emissions from a concrete substructure not to exceed 5lb/1000sf in a 24-hour period per ASTM F1869.

3.2 INSTALLATION

- A. Roll out AcoustiStep over the subfloor surface.
- B. Splice each roll of underlayment at the seams with a film tape, duct tape, or other pressure sensitive tape.

- a. Tape must meet or exceed the water vapor transmission standards suggested by the flooring manufacturer.
- C. Connect rolls together evenly so that no overlapping or wide gaps between sheets occurs.
- D. Trim material as needed to fit the floor surface area and avoid obstructions.
- E. Proceed to finished flooring installation per manufacturer's instructions.
 - a. Qualifies for floating, glue-down, and nailed assemblies.

CONTACT WITH QUESTIONS:

Commercial Acoustics, (888) 815-9691
1519 W Cypress St, Tampa, FL 33606

END OF SECTION