

Product Data and Submittal Sheet

STC Acoustic Pad™

Project Information

Product Description

The STC Acoustic Pad™ is a sound and vibration isolator made of ¼" thick solid neoprene rubber. It is used to support wood panels in an acoustic **floor covering system** installed over decks or floor/ceiling assemblies. The unique profile of the pad limits the vibration pathways from the finish floor surface into the floor structure. The system has **ΔIIC-23** with 99.8% of the floor area being isolated from the structure. The Acoustic Pad™ has been issued US Patent No. 10,041,245.

Applications

Floor construction above dwelling units and sleeping rooms are required by building codes to have an Impact Insulation Classification of IIC-50 or better (IBC 1207.3). The Acoustic Pad system is commonly used in multiple dwellings and is a major component for achieving this rating in:

- Apartments
- Condominiums
- Hotels
- Dormitories and Senior Living

Construction Types III-A and V-A

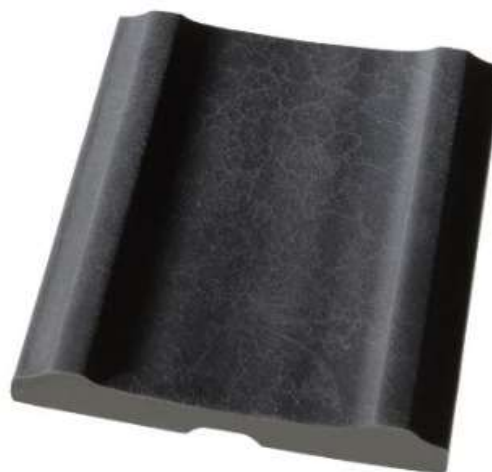
Acoustic Pads are used with wood panels over any floor/ceiling assembly including wood joists, wood trusses, wood I-joists, metal joists, and metal trusses. Gypsum cement is not required for fire ratings (ex.: wood trusses, UL Design L528, System 1).

Construction Types I and II

Acoustic Pads are used with wood panels over concrete decks, UL Design D902; wood is permitted (IBC 804.1, IBC 603.1.5). Cement-bonded particle board, magnesia board, and structural cement panels may also be used.

Specifications

Include in Section 061600 Sheathing as "Acoustical Floor Underlayment System": Solid neoprene rubber pads, ¼"-thick, to support panels for impact noise isolation in floor construction; ΔIIC-23 per ASTM E 2179; STC Sound Control "Acoustic Pad."



Installation

At any deck: Remove all dust, dirt, oil, grease, etc. Wipe with a solvent such as methyl ethyl ketone (MEK) to prepare the surface for bonding.

Adhere pads to wood panel, and pads on panels to deck, with recommended adhesive. Concrete decks are porous and may need adhesive application to deck and to pads as with contact cement.

Install any type of finish floor on the panels per floor manufacturer's instructions.

Recommended Adhesive

Polychloroprene (neoprene) based adhesive, 3M™ "Neoprene High Performance Rubber and Gasket Adhesive" low viscosity 1300L. Reactivate adhesive with methyl ethyl ketone (MEK).

Coverage: 1 gallon provides approximately 9,000 sf of typical floor system area.

Quantity Estimate

Typical installation for 40 psi live load requires 1 pad per 2.1 sf of system area (210 sf per bag of 100 pads)

Availability

Color: Black rubber.

Configurations: Square, 1-½" wide by ¼" high pads of extruded neoprene.

Place orders for the *STC Acoustic Pad* through our online store <http://stcsoundcontrol.com>.

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Impact Insulation Classification	With Ceiling				Without Ceiling	
Finish Floors	Wood Joists and Trusses		Concrete Deck		Concrete Deck	
	Direct Attachment	Pad System	Direct Attachment	Pad System	Direct Attachment	Pad System
None	43	52	40	64	27	51
Vinyl Plank (LVT)	43	54	40	64	27	51
with pad	64	75	62	85	49	72
Engineered Wood with pad	47	58	45	68	32	55
Wood Strips	43	54	40	64	27	51
with pad	49	58	45	69	32	55
Porcelain, Stone or Ceramic Tile	28	54	40	64	27	51
with crack isolation pad	32	58	45	69	32	55
Polished Concrete	32	58	45	68	32	55
Carpet with pad	53	72	66	82	53	69
Sound Transmission Classification	54	55-61	54	55-61	51	61

Performance & Physical Properties

Impact Insulation Classification (ASTM E 2179): **ΔIIC-23**. Refer to chart for detailed information.

Sound Transmission Classification (ASTM E90): STC-55 for wood joists; STC-59 for wood truss; STC-52 for concrete with no ceiling; STC-65 for concrete with ceiling.

Maintenance

No maintenance is expected.

Limitations

Avoid long term weather exposure.

Safe Handling Information

No special precautions for pads. Refer to adhesive manufacturer instructions.

Important Notice to User

Field results may vary due to sound flanking from other locations, spacing of pads, and characteristic IIC of additional flooring components. Refer to actual sound test reports and analysis for this and any other noise control product.

Warranty

STC Sound Control warrants that the Acoustic Pads will be free from defects in material and manufacture. STC makes no other express or implied warranties.

Approval Stamp