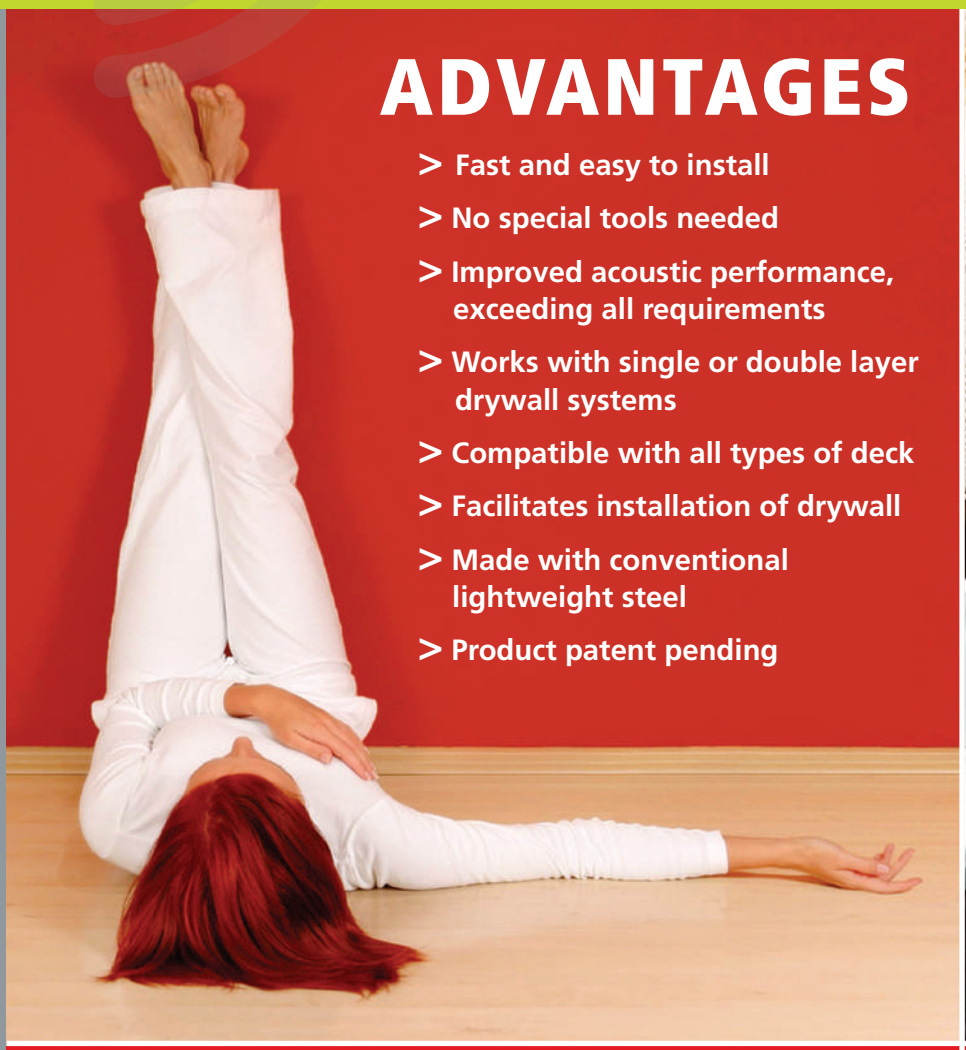
ACOUSTIVIBE

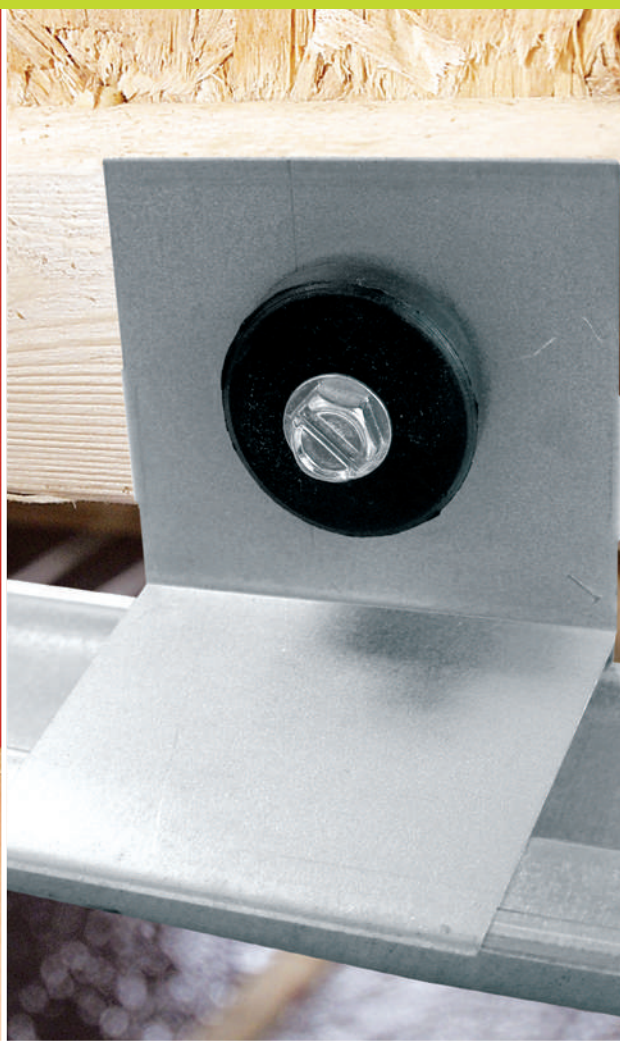
SOUND INSULATING SYSTEM FOR CEILINGS

RESISTOSOUND SOUNDPROOFING PRODUCT LINE



ADVANTAGES

- > Fast and easy to install
- > No special tools needed
- > Improved acoustic performance, exceeding all requirements
- > Works with single or double layer drywall systems
- > Compatible with all types of deck
- > Facilitates installation of drywall
- > Made with conventional lightweight steel
- > Product patent pending



ACOUSTIVIBE sound insulators and metal furrings soundproof drywall ceilings in a unique and innovative way. Rather than attach the metal furrings directly to the wood beams or joists, they're suspended by ACOUSTIVIBE insulators which have a rubber insert. That absorbs shocks and vibrations which will reduce the noise level to the floor above.

A solution from

RESISTO SOUND®

Soundproofing products

ACOUSTIVIBE
SOUND INSULATING SYSTEM FOR CEILINGS

Installation Guide

ACOUSTIVIBE SOUND INSULATORS AND METAL FURRINGS

1 ACOUSTIVIBE sound insulators require parallel installation, on the sides of wood beams or joists.

2 ACOUSTIVIBE sound insulators include a thin piece of rubber on one side and a thick piece on the other. The thin part goes between the beam or joist and the ACOUSTIVIBE insulator.

3 ACOUSTIVIBE insulators are installed with screws (provided). It's also acceptable to use 1½ inch nails (roofing nails) applied with a pneu matic nail gun.

4 In order to ensure that the ceilings are straight, the top edges of ACOUSTIVIBE sound insulators should be aligned with the top of the lower frame beam (two-by-three or two-by-four [fig.1]). In the case of joists, trace a line 1 1/2 in from the bottom and align it with the upper edge of the ACOUSTIVIBE sound insulator.

5 The joints between the ACOUSTIVIBE metal furrings are done by superimposing two lengths and supporting the metal furring below with another ACOUSTIVIBE insulator, placed just beside the joint. (fig.2) Screw the two metal furring together with metal screws on the edges.

6 For installation of a single layer drywall assembly, use one ACOUSTIVIBE sound insulator every three feet on each beam. For a double layer assembly, use one ACOUSTIVIBE insulator every two feet.

7 Installation of ACOUSTIVIBE sound insulators on joists:
- Beams spaced 14 to 24 inches apart: install insulators on each joists.
- Joists spaced 12 inches or less apart: install insulators on every two joists, being sure none are spaced more than 24 inches apart.

8 Always use ACOUSTIVIBE metal furrings. They are specifically designed for ACOUSTIVIBE ceiling systems. Regular metal furrings are not mechanically appropriate.

9 If the installation of insulators on the first beam from the wall is more than 20 cm (8 inches) from the wall, it's necessary to add a lightweight metal angle on the wall in order to support the first sheet of drywall. You can also attach a wood stud to the wall and install an ACOUSTIVIBE insulator. At less than 20 cm (8 inches) from the wall, drywall from the wall will support the ceiling.

fig.1

fig.2

Note

These instructions are based on the strength and capacity to support of ACOUSTIVIBE sound insulators. The ACOUSTIVIBE system is meant to support the weight of 1 or 2 sheets of 5/8 inch drywall. It must not carry any other element such as ventilation ducts.

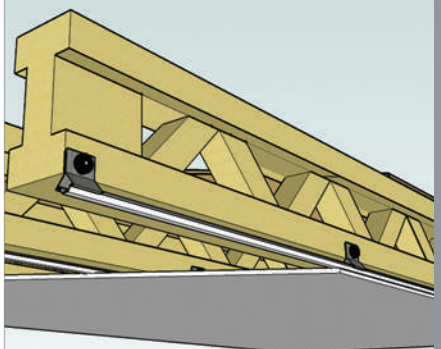


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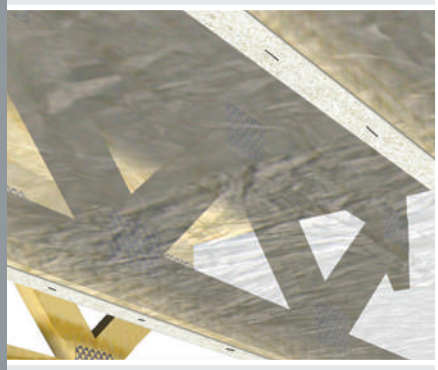
fig.3



TREATMENT OF INSIDE WALLS

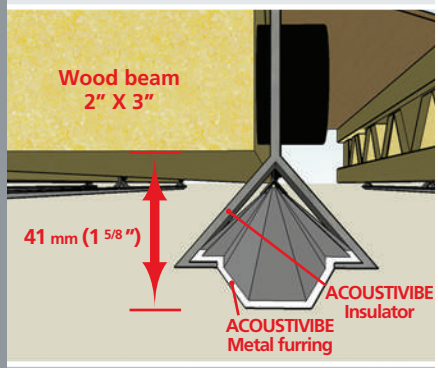
To prevent squeaking, the wall should not be attached to the ACOUSTIVIBE metal furrings. Internal walls should be treated in the same way as partiallly structural walls.

INSTALLATION OF INSULATION WITHIN BEAMS OR JOISTS

As ACOUSTIVIBE sound insulators must be attached to the sides of beams, it is much easier to use batt insulation instead of blown fiberglass or cellulose insulation.

If blown insulation is chosen, a polyethylene film is required in order to hold it in place. ACOUSTIVIBE reinforcement bands keep the polyethylene film from moving when installing blown insulation (fig.3). In addition, it is preferable to install the polyethylene and the sound insulators before installing blown insulation.

fig.4



USE WITH STRUCTURES OTHER THAN WOOD

Whether the structure is a structural concrete slab or a steel, Hambro® or mill floor structure, ACOUSTIVIBE can be used by first attaching the ACOUSTIVIBE sheath in reverse position under the structure. ACOUSTIVIBE sound insulators can then be coupled in reverse and metal wires may be inserted in order to install a suspended ceiling.

PEACE OF MIND
RELAXING
COMFORT
PEACEFUL HOME

A solution from

RESISTO SOUND®

Soundproofing products

ACOUSTIVIBE

SOUND INSULATING SYSTEM FOR CEILINGS

CHARACTERISTICS OF ACOUSTIVIBE INSULATOR

> Composition Galvanized lightweight steel 0.46 mm (18 mils) thick, with rubber insert
> Maximum load capacity 51 Kg (112 lb)
> Packaging: Box of 100 units with screws
> Approximative consumption:
Single-layer drywall: 1 ACOUSTIVIBE insulator per 3.4 to 4 square feet
Double-layer drywall: 1 ACOUSTIVIBE insulator per 2.3 to 2.7 square feet

CHARACTERISTICS OF THE ACOUSTIVIBE METAL FURRING

> Composition: Galvanized lightweight steel 0.46 mm (18 mils) thick
> Packaging: Pack of 10 × 12 foot lengths

ACOUSTIC PERFORMANCE :

Comparison between conventional systems and the ACOUSTIVIBE System

Conventional System	ACOUSTIVIBE System
Engineered Hardwood Flooring	Engineered Flooring
Acoustic Membrane	Acoustic Membrane
1½'' Concrete Slab	1½'' Concrete Slab
Acoustic Membrane	Acoustic Membrane
5/8'' Plywood	5/8'' Plywood
Web joists	Web joists
10'' Mineral Wool	10'' Mineral Wool
Resilient Channels	**ACOUSTIVIBE System**
5/8'' Type X drywall	**5/8'' Type X drywall**
½'' drywall	
FSTC = 62	FSTC = 64; 2 points improvement
FIIC = 56	FIIC = 63; 7 points improvement

FIIC: *Field Impact Insulation Class*
FSTC : *Field Sound Transmission Class*

* FIIC and FSTC results are presented for information purposes only. Equivalent performance cannot be guaranteed by Soprema's Resisto division.

The Best Systems with Various RESISTOSOUND Soundproofing Products

- Engineered flooring
- Insonofloor
- 1½'' concrete slab
- Insonomat
- 5/8'' plywood
- Web joists
- Mineral wool
- ACOUSTIVIBE System
- 5/8” Type X drywall
- 1/2'' drywall

FSTC = 65
FIIC = 66

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