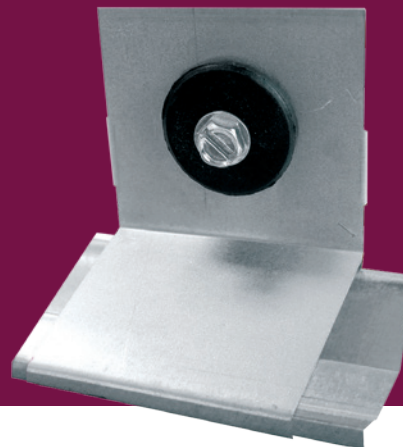




SOUNDPROOFING

ACOUSTIVIBE

SOUNDPROOFING



ACOUSTIC CEILING ANCHOR



ACOUSTIVIBE insulators and furrings ensure soundproofing of gypsum ceilings in a unique and innovative way. Instead of directly fastening furrings on the girders or joists, they are suspended with fasteners supplied with a piece of rubber. They absorb shocks and vibrations from the upper floor and prevent their transmission through the ceilings. In this way, the room is isolated from noises caused by footsteps, vacuuming, children playing, etc.



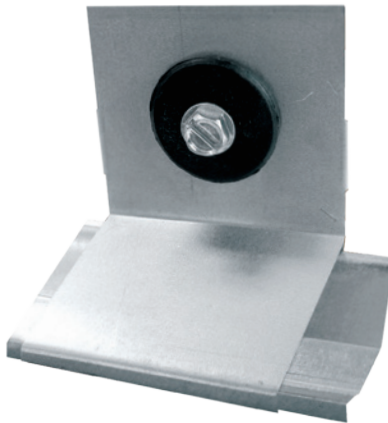
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ACOUSTIVIBE

ACOUSTIC CEILING ANCHOR



BENEFITS

- Easy and fast to install
- No specialized tools required
- Increased acoustic performance exceeding requirements

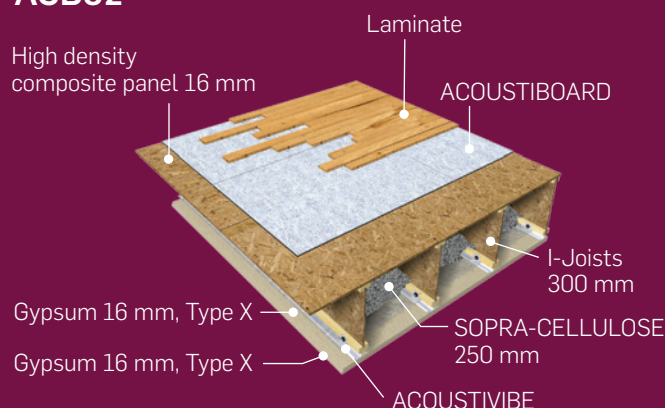
PRODUCT FEATURES

ACOUSTIVIBE INSULATOR	
THICKNESS	18 mils (0.46 mm)
COMPOSITION	Light galvanized steel
MAXIMUM LOAD	112 lb (51 kg)
INDICATIVE CONSUMPTION	System with one gypsum board layer: 1 ACOUSTIVIBE insulator for 3.4 to 4.0 ft ² System with two gypsum board layers: 1 ACOUSTIVIBE insulator for 2.3 to 2.7 ft ²
QUANTITY PER PACKAGE	100 (screws included)

ACOUSTIVIBE FURRING STRIP	
THICKNESS	18 mils (0.46 mm)
COMPOSITION	Light galvanized steel
DIMENSIONS	12 ft (3.65 m)
QUANTITY PER PALLET	10 strips of 12 ft

CEILINGS SOUNDPROOFING SYSTEMS

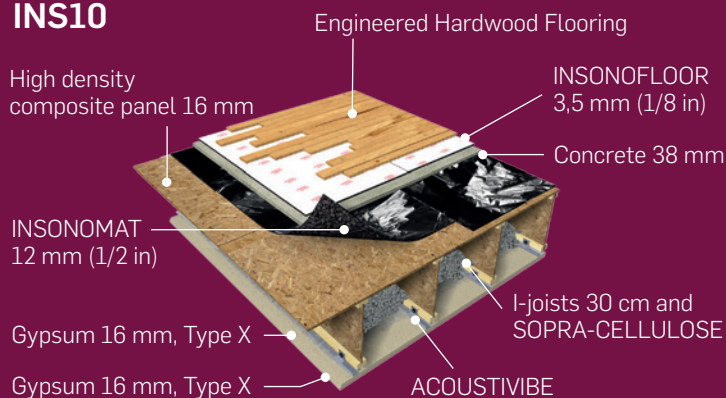
ACB02



PROPERTIES*

FIELD TESTS	ASTC	54-58	AiIC	58-61
LABORATORY TESTS	STC	61	IIC	64

INS10



PROPERTIES*

FIELD TESTS	ASTC	58-61	AiIC	60-66
LABORATORY TESTS	STC	63	IIC	66

PERFORMANCE COMPARISON WITH AND WITHOUT ACOUSTIVIBE

Assembly n°1

Assembly WITHOUT ACOUSTIVIBE	Assembly WITH ACOUSTIVIBE
<ul style="list-style-type: none"> Engineered hardwood 15 mm ACOUSTIBOARD OSB panel 19 mm I-joists 30 cm Cellulose 30 cm Resilient channels ACOUSTIVIBE Gypsum 16 mm, Type X Gypsum 16 mm, Type X 	<ul style="list-style-type: none"> Engineered hardwood 15 mm ACOUSTIBOARD OSB panel 19 mm I-joists 30 cm Cellulose 30 cm ACOUSTIVIBE Gypsum 16 mm, Type X Gypsum 16 mm, Type X
STC = 58; IIC = 53	STC = 61; IIC = 64

ASTC: Apparent Sound Transmission Class
Tests in compliance with the ASTM E336
and ASTM E413 methods

AiIC: Apparent Impact Insulation
Class Tests in compliance with the ASTM
E1007 and ASTM E989 methods

*The results are presented for information
purposes only and may vary. They are
based on the average of results obtained.
Equivalent performance cannot be
guaranteed by SOPREMA.

Assembly n°2

Assembly WITHOUT ACOUSTIVIBE	Assembly WITH ACOUSTIVIBE
<ul style="list-style-type: none"> Concrete 38 mm Polyethylene film 6 mils OSB panel 19 mm I-joists 30 cm Cellulose 30 cm Resilient channels Gypsum 16 mm, Type X Gypsum 16 mm, Type X 	<ul style="list-style-type: none"> Concrete 38 mm Polyethylene film 6 mils OSB panel 19 mm I-joists 30 cm Cellulose 30 cm ACOUSTIVIBE Gypsum 16 mm, Type X Gypsum 16 mm, Type X
STC = 60; IIC = 42	STC = 61; IIC = 48





FIRE TESTS

CAN/ULC S101-7 and UL263 :
Standard Methods of Fire Endurance Tests of Building
Construction and Materials

Results: Over 60 minutes

DETAILS OF THE ASSEMBLY:

(The test is valid no matter what is added above the OSB panel)

- ACOUSTIBOARD (optional)
- OSB 16 mm (5/8 in) screwed and glued
- Open or wood I-joists 9 ½ in or deeper, or 2 in x 10 in wood beams; maximum 24 in c/c
- Cellulose or fiberglass insulation or no insulation at all
- Polyethylene film (for cellulose only)
- ACOUSTIVIBE System
- Gypsum board 16 mm type X
- Gypsum board 16 mm type X

SURFACE PREPARATION

The beams or structures on which the ACOUSTIVIBE system is installed must be level. As indicated in the installation method, the height alignment of the ACOUSTIVIBE elements will only follow the already established level of the beams or structure.



INSTALLATION METHOD

These instructions are based on the ACOUSTIVIBE insulator mechanical strength and its ability to withstand loads. The ACOUSTIVIBE system is designed to support the weight of one or two 5/8" gypsum boards. No other item, such as a ventilation duct, must be suspended from the ACOUSTIVIBE system.

1. ACOUSTIVIBE insulators are installed in parallel, on the side of wooden beams or joists (with batt or cellulose insulation).
2. ACOUSTIVIBE insulators are equipped with a piece of rubber that is thin on one side and thick on the other side. The thick part must be between the beam or joist and the ACOUSTIVIBE insulator.
3. The ACOUSTIVIBE insulator is installed with the screws provided in the box.
4. To ensure that the ceiling is straight, the ACOUSTIVIBE insulators are aligned with the upper edge, flush with the top of the bottom chord (2" x 3" or 2" x 4") of the joist (Fig. 1). For beams, a line is drawn at 1.5" from the bottom, and the top edge of the ACOUSTIVIBE insulator is aligned with it.
5. The joints between the ACOUSTIVIBE metal furring strips are made by overlaying two lengths and supporting the bottom furring strip using an ACOUSTIVIBE insulator placed right next to the joint. Secure the two furring strips together with metal screws on the edges.
6. For an installation with one layer of gypsum board, place an ACOUSTIVIBE insulator every three linear feet on each beam. For an installation with two layers of gypsum board, place an ACOUSTIVIBE insulator every two linear feet.

Note: Two layers of gypsum boards are required to obtain a one-hour fire rating.

7. Install the first ACOUSTIVIBE insulator at the end of the joist, as close as possible to the wall.
8. Install the other ACOUSTIVIBE insulators on the joists:

Joists with 14" to 24" spacing O.C.:

Install insulators on each beam.

Joists with 12" spacing or less O.C.:

Install insulators every two joists, not exceeding 24" between the rows of insulators.

9. Always use the ACOUSTIVIBE furring strips specially designed for the ACOUSTIVIBE anchoring system. Regular furring strips are not suitable for mechanical reasons.
10. When the installation of the insulators on the first joist at the edge of the wall is more than 8" (20 cm) from the wall, add a light steel angle iron to the wall to fasten the end of the ceiling gypsum board. It is also possible to attach a wooden stud flat on the wall studs to add an ACOUSTIVIBE insulator. At less than 8" (20 cm) from the wall, the gypsum board of the wall will support that of the ceiling.

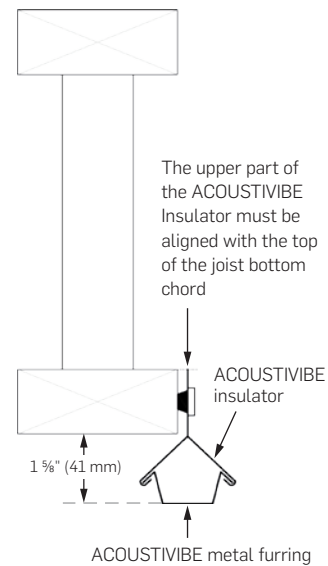


Figure 1

INSTALLATION WITH INTERNAL DIVISIONS

For load-bearing walls, the ACOUSTIVIBE system must be installed starting from each side of these walls in the same way as for perimeter walls.

For non-load-bearing walls, the ACOUSTIVIBE system and the gypsum boards on the ceiling must pass over it. Electrical wires are passed through the gypsum boards and wood wedges put in place by the wall structure installer and led down into the walls. The wood wedges are fastened by the installer of the structure between the gypsum boards and the joists so as to create the 1 5/8" (41 mm) clearance needed for the ACOUSTIVIBE system (insulator and furring strips) and allow nailing of the top of the walls.

It is not recommended to attach the top of the walls on the ACOUSTIVIBE metal furring strips so as to avoid squeaking.

INSTALLATION OF INSULATION IN BEAMS OR JOISTS

Blown cellulose or batt insulation can be used. It is recommended to install batt insulation to at least 50% of the height of the beams or joists.

With blown insulation, a polyethylene film must be installed as a retaining barrier, and ACOUSTIVIBE reinforcement strips can be used to prevent the polyethylene film from tearing (fig. 2). It is preferable to install the polyethylene film, the reinforcement strips, and the insulators before blowing the insulation. To ensure acoustic performance, it is recommended to fill the entire cavity with cellulose at a minimum density of 1.5 to 1.8 lb/ft³.



Figure 2

USE WITH NON-WOOD STRUCTURES

On concrete slab structures, steel with concrete structures, Hambro-type structures, or any structure made of materials other than wood with concrete—and on which the ceiling is suspended—use the ACOUSTIVIBE CDC anchor system (see the data sheet).

For CLT or mill floor-type structures with a surface made entirely of wood and on which the ceiling is suspended, use the ACOUSTIVIBE WDC anchor system (see the data sheet).

WARRANTY

SOPREMA soundproofing products are guaranteed against all manufacturing defects and to be suitable for all stated uses. SOPREMA's liability under this guarantee is limited to replacing or refunding the purchase price of SOPREMA soundproofing products found to be defective.

If you have any questions about this product or its installation, please contact your SOPREMA representative.



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