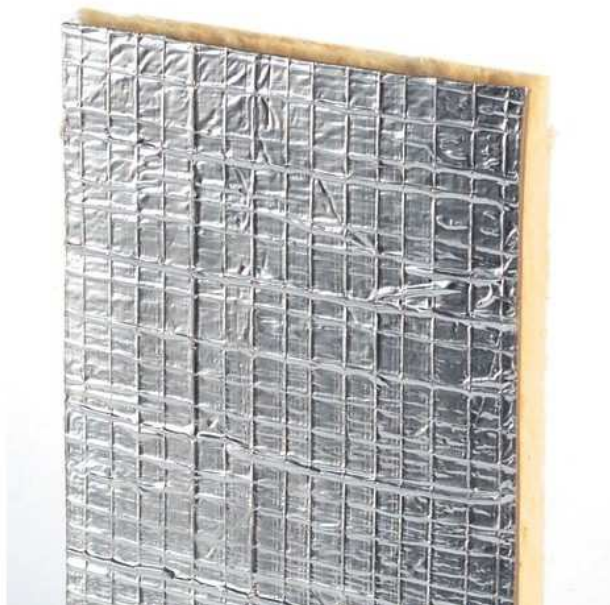


## TECSOUND<sup>®</sup> FT55 AL

TECSOUND<sup>®</sup> FT55 AL is a soundproofing complex consisting of a porous felt bonded to the high density polymer-based, asphalt-free, synthetic soundproofing TECSOUND<sup>®</sup> membrane, reinforced with an aluminium foil on its upper side as a protection or finishing of the membrane. It offers good acoustic insulation for pipes and conducts.

### ADVANTAGES

- It increases the acoustic insulation of the duct element where it is placed, basing its effect on the presence of an absorbent element and a high elasticity and a high density insulating membrane.
- High sound damping capacity on metal surfaces
- Flexibility
- Easy handling and adaptable to uneven surfaces
- Easy application
- Cold- and heat-resistance
- Excellent ageing resistance
- Rot-proof



### APPLICATION

- Soundproofing of PVC sewage ducts in buildings
- Soundproofing of air conditioning ducts
- Soundproofing of industrial pipes
- Application in the industrial field: soundproofing of booths, acoustic insulation of machine-rooms, gutter pipes, sound-damping of metal sheets and many others.

### REGULATIONS

- According to CTE-DB-HR, EN ISO 140-1, EN ISO 140-3, EN ISO 140-6, EN ISO 140-8 y EN ISO 717/1/2.
- Quality management system according to ISO 9001

### ACOUSTIC INSULATION

SOPREMA reserves the right to modify the information contained herein without prior notice and declines all liability in cases of errors produced due to an inappropriate use of the product. The values shown in the technical sheet are the mean values from the tests in our lab.

### INSTALLATION

Substrate:

- The substrate must be even, smooth, clean and dry, and free from elements that could damage the membrane.

Installation:

- In the first place, the development of the duct to be soundproofed must be measured, adding 5 cm for the overlaps. Use scissors or a knife to cut the needed quantity of **TECSOUND® FT 55 AL** (crosswise cut).
- Then wrap the duct in such a way that the felt is in contact with the surface as much as possible, starting from the lower part of the pipe. Use a plastic flange every 25-30 cm for anchoring.
- Overlap 5 cm both vertically and horizontally and seal the joints carefully, as small openings can reduce the level of acoustic insulation you want to achieve.
- 1 m<sup>2</sup> of membrane will approximately cover 90 m<sup>2</sup> of surface, including the overlaps.



### PRECAUTIONS

- Check that the support is free of sharp elements that could damage the product.
- Check that the joints are properly sealed and that there are no openings, as small openings can reduce the acoustic insulation level you want to achieve.

### PACKAGING AND STORAGE

|                             | TECSOUND® FT 55 AL   |
|-----------------------------|--|
| Weight (Kg/m <sup>2</sup> ) | 5.6  |
| Thickness (mm)              | 12.5   |
| Length (m.)                 | 5.50   |
| width (m.)                  | 1.20   |
| m <sup>2</sup> /roll        | 6.60   |
| Rolls/ pallet               | 12   |
| m <sup>2</sup> /pallet      | 79.2   |
| Storage                     | Horizontal storage in pallets without stacking. Product is supplied in rolls with cardboard core inside. Store in the original packaging, in dry conditions and protected from hot temperatures and UV rays, not exposed to temperatures higher than 35°C. The maximum storage period is 1 year. |

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## TECHNICAL CHARACTERISTICS

| CHARACTERISTICS             | TEST METHOD  | TECSOUND® FT | UNIT              |
|-----------------------------|--------------|--------------|-------------------|
| Density (Tecsound)          | -            | 2.010        | Kg/m <sup>3</sup> |
| Density (felt)              | -            | 60           | Kg/m <sup>3</sup> |
| Tensile strength            | NT-67        | >30          | N/50mm            |
| Pliability                  | EN 1109      | -20          | °C                |
| Thermal conductivity (felt) | UNE-EN 12667 | 0.034        | W/m·°C            |

## ACOUSTIC VALUES

| CHARACTERISTICS               | TEST METHOD | VALUE                                      | UNIT |
|-------------------------------|-------------|--|------|
| Young module (E) (membrane)   | -           | Longitudinal 1,35637<br>Transversal 1,1744 | MPa  |
| Poisson coeficient (membrane) | -           | 0,23                                       | -    |

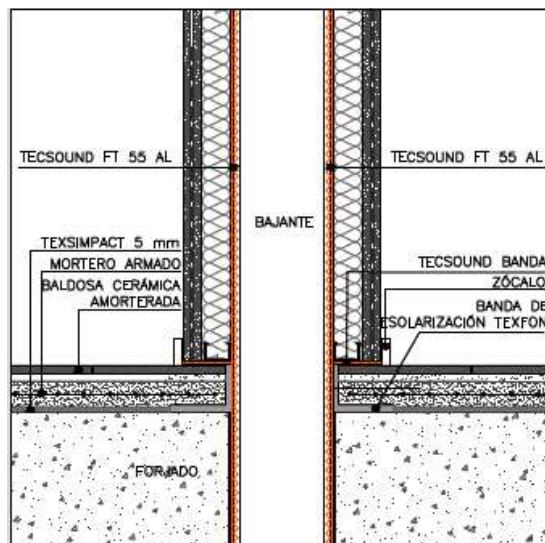
## ACOUSTIC VALUES OF THE INSTALLED PRODUCT

### SYSTEM BJ-1

Acoustic insulation of a downpipe with TECSOUND® FT 55 AL which wraps the pipe and is fixed by flanges.

| FRECUENCIES (Hz)                                     | R    | IL according to ISO 15665 | Ud |
|--|------|---------------------------|----|
| 125  | 12.1 | 0.7                       | dB |
| 250  | 16.0 | 0.0                       | dB |
| 500  | 20.6 | 2.2                       | dB |
| 1000   | 25.7 | 10.6                      | dB |
| 2000   | 30.9 | 15.8                      | dB |
| 4000   | 36.3 | 23.8                      | dB |
| Global index of weighted acoustic reduction A, $R_A$ | 25   | Class A1                  |    |
| Global index of acoustic reduction, $R_w$            | 25   |                           |    |

IL: insertion losses. The standard ISO 15665 is the one used for the acoustic insulation of industrial ducts and pipes. The test has been carried out by Izosound Laboratories Ltd.



(\*) Consult our Acoustic Insulation Systems brochure or contact our Technical Department to know about other systems



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