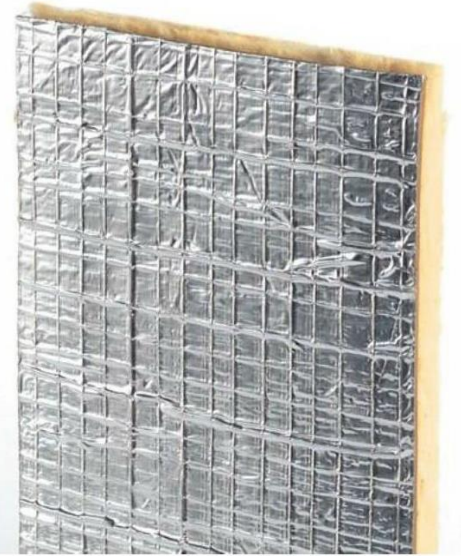


TECSOUND FT 55 ALU

TECSOUND FT 55 ALU is a soundproofing complex. The core consists of TECSOUND, a synthetic and viscoelastic, polymer based, bitumen-free high density membrane. The upper face is finished with a reinforced aluminum foil. The lower face is backed with a layer of porous mineral wool.

ADVANTAGES

- High sound insulation of pipes, with the combined effect of an absorbing and a sound-insulating viscoelastic material.
- Reduction of the transmission of vibrations in pipes, caused by drainage of liquids, to the structure (transmission of structural noise), as well as contact noise in bends.
- Flexible and adaptable to all types of piping (round or square) and connections, ensuring the continuity of insulation so eliminating the need for specific pieces for bends and connections.
- Good behaviour at low temperatures, without breaking or cracking.
- Easy to handle and cut.
- Ageing resistance.
- Rot resistant.



APPLICATIONS

- Acoustic insulation of drain pipes in buildings.
- Soundproofing of air conditioning piping.
- Acoustic insulation of industrial piping.
- Soundproofing of cabins, machine-rooms, engines, cowling and compressors.



INSTALLATION

CONDITIONS:

Substrate and/or ambient temperature: min. +5 °C to max. +35 °C.

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

INSTALLATION:

Measure the circumference of the pipe and add 50 mm for the overlap and cut to the desired length. It is recommended to cut strips smaller than 1-1,2 m to facilitate handling.

Wrap the product around the pipe so that the mineral wool touches the entire surface and overlaps in the longitudinal direction. Start at the bottom of the pipe and work your way up. Do not overlap the transverse joints (only butt joint), but connect tightly to avoid gaps. Secure the strips with cable ties every 25-30 cm.

Seal the joints well with aluminum tape, because openings have a negative effect on the sound-reducing capacity.

Contact the manufacturer with technical questions.

PACKAGING AND STORAGE

	TECSOUND FT 55 ALU
Mass (kg/m ²)	5,6
Thickness (mm)	12,5
Length (m)	5,5
Width (m)	1,2
m ² /roll	6,6
Rolls/pallet	12
m ² /pallet	79

The product is supplied on a roll with cardboard core and individual protective cover.

Store the rolls horizontally on pallets in its original packaging, protected from moisture, sunlight and heat at a temperature of max. +35 °C. Do not stack the pallets on top of each other. The rolls have a shelf life of 1 year.

In cold periods, installation can be facilitated by allowing the product to stand at +2 °C for at least 5 hours before use.

CHARACTERISTICS

Technical properties	Standard	Value	Unit
Density (TECSOUND)	-	2010	kg/m ³
Density (mineral wool)	-	60	kg/m ³
Tensile strength	NT-67	> 30	N/50 mm
Flexibility at low temp.	EN 1109	-25	°C
Resistance to tearing (nail shank)	EN 12310-1	153-235	N/50 mm
Thermal conductivity (mineral wool)	EN 12667	0,034	W/(m °C)
Young module (E)	-	1,35637 x 1,1744	MPa
Poisson coefficient	-	0,23	-
Service temperature	-	-10 up to +70	°C

SOUND REDUCTION

Characteristics	Standard	Value	Unit
R_w (weighted sound reduction index)	EN ISO 140-3	26	dB
STC	ASTM E413	31	dB
IL_a (reduction of airborne sound transmission)	EN 14366	14	dB

Example of sound insulation of a PVC drain pipe

Frequency (Hz)	L _{an} (normalized airborne sound level) * 2,0 l/s	
	with TECSOUND FT 55 ALU (dB)	naked drain pipe (dB)
125	31,3	25,5
250	28,6	28,6
500	32,7	31,4
1000	29,5	41,0
2000	29,4	44,4
4000	27,3	46,2
IL_{ja,A} (Reduction of airborne sound transmission)	14 dB(A)	

Testing according to EN 14366

SPECIAL INDICATIONS

Hygiene, Health and Environment

The product does not contain any substance which is likely to be detrimental to your health or to the environment and complies with generally admitted Health and Safety Requirements.

Quality-, Environment- and Safety Management

SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality and Environment Assurance Systems in line with **EN ISO 9001** and **EN ISO 14001**.