

## TECSOUND ALU

TECSOUND ALU is a polymer based, bitumen-free, high-density synthetic membrane. The combination of its viscoelasticity and its high-density offers good sound-insulation in different construction elements without increasing thickness. The upper face is finished with a reinforced aluminium foil. The lower face is coupled with a polyester fleece. The fleece allows good adhesion with various materials.

### ADVANTAGES

- High sound-insulation when combined with light and rigid elements such as gypsum boards.
- High sound damping capacity on metal surfaces.
- Good reaction-to fire classification.
- Flexible and adaptable to uneven surfaces.
- Good behaviour at low temperatures, without breaking or cracking.
- Easy to handle and cut.
- May act as a vapor control layer.
- Negligible water absorption.
- Ageing resistance.
- Rot proof.

### APPLICATIONS

- Increases airborne noise insulation on vertical partition walls with low surface mass (plasterboard partitions, timber partitions,...).
- Soundproofing against airborne noise.
- Damping of noise caused by weather such as rain and hail in light weight roofs (wood, metal deck, ...).
- It is used to manufacture acoustic complexes by gluing other materials on one or both sides of the product.
- Compatible with common materials (polyurethane and melamine foams, fibreglass, rock and wood wool, polyester, textile, ...).
- The aluminium finish allows the use of the product to a certain indoors display such as technical pipe wrapping or false ceilings.

### 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:

Apply a layer of contact adhesive on both the substrate and the fleece finish of the membrane. Follow the adhesive manufacturers instructions.

Install the membrane and apply a firm pressure with a rubber roller to achieve good adhesion and prevent blistering.

Care must be taken to ensure that the seams fit tightly and that there are no openings, as these will have a negative effect on the sound-reducing capacity.

Contact the manufacturer in case of technical questions.

## PACKAGING AND STORAGE

	TECSOUND ALU 50	TECSOUND ALU 100
Mass (kg/m <sup>2</sup> )	5	10
Thickness (mm)	2,5	5
Length (m)	6,0	4,0
Width (m)	1,20	1,20
m <sup>2</sup> /roll	7,2	4,8
Rolls/pallet	24	21
m <sup>2</sup> /pallet	173	101

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	-	2010	kg/m <sup>3</sup>
Tensile strength	NT-67	> 30	N/50 mm
Elongation	NT-67	> 500	%
Flexibility at low temp.	EN 1109	-25	°C
Resistance to tearing (nail shank)	EN 12310-1	153-235	N/50 mm
Fire classification	EN 13501-1	B-s2,d0	-
Water vapour resistance factor (μ)	EN 1931 met B	≥ 1806	-
Water absorption (24 h at 23 °C)	ISO 62 met 1	0,03	%
TVOC after 28 days	EN 16516	≤ 19	μg/m <sup>3</sup>
Shore hardness A	NT 74	30 ±10	-
Young module (E)	-	1,35637 x 1,1744	MPa
Poisson coefficient	-	0,23	-
Service temperature	-	-10 up to +70	°C

## SOUND REDUCTION

Characteristics	Standard	R <sub>w</sub> (weighted sound reduction index)	
TECSOUND ALU 50	EN ISO 10140-2	26	dB
TECSOUND ALU 100	EN ISO 10140-2	32	dB

## 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**.

