

# TECSOUND

TECHNICAL DATA SHEET APTDS-E-120-01



SOUNDPROOF

APPLICATIONS

ROOF

FLOOR

METAL DECK

## DESCRIPTION

**TECSOUND®** is a high density polymer-based, asphalt-free, synthetic soundproofing membrane, that offers good acoustic insulation in different building elements..

It is equipped with a tissue non-tissue polypropylene fleece on its upper side to improve the tear strength of the membrane and at the same time offer a protection or a finishing.

## ADVANTAGES

- High acoustic insulation, combined with soft, flexible elements.
- High sound damping capacity on metal surfaces.
- Flexible.
- Easy to handle and adaptable to uneven surfaces.
- Easy to cut with a knife or scissors
- Good bonding to most of the types of surfaces.
- Acts as a vapour control layer
- Cold- and heat-resistance.
- Excellent ageing resistance.
- Rotproof.

## APPLICATION

- Soundproofing against airborne noise in ceilings and lightweight roofs.
- Reduction of impact noise level in all types of floors, sandwiched between floor slabs and loose-laid flooring.
- Damping of impact noise caused by atmospheric agents on metal decks.
- Combined with sound-absorbent materials, it offers products with high acoustic performance.
- Its applications in the industrial field cover from the soundproofing of booths to the acoustic insulation of machine-rooms, gutter pipes, sound-damping of metal sheets, etc.

## STANDARD

- Under conformity of EN ISO 140-1, EN ISO 140-3, EN ISO 140-6, EN ISO 140-8, EN ISO 10140 y EN ISO 717/1/2.
- Quality control systems under ISO 9001.

## INSTALLATION

SUBSTRATE::

- lends itself to all types of normal building substrates (renderings, gypsum board, metal, DM, plastic materials).

The substrate must be even, smooth, clean and dry. It must also be free from elements that could damage the membrane. If the rendering is old, its condition must be checked to avoid adherence problems of the TECSOUND sheet to the rendering

INSTALLATION OF THE MEMBRANE:

- prior to installing the membrane, an adhesive must be applied to both substrate and membrane, and left to dry according to the instructions of the adhesive manufacturer before bonding the two surfaces. Pressure must be exerted on all the points to ensure correct adherence.
- It could be installed mechanically fastened. The number of fixings will depend on the product, the support and the system where the membrane will be applied.

INSTALLATION OF THE MEMBRANE ON METAL DECKS:

- Extend the roll over the substrate progressively, trying to keep the fleece remained on the upper side so it protects the membrane. The membrane must be applied in such a way that the length of the roll is perpendicular to the direction of the deck profile. The membrane must be made to follow the profile of the metal support at all times, ensuring that there is no formation of air pockets. The thermal insulation boards are then installed, mechanically fastened.

LAPS:

- Overlap 5 cm both vertically and horizontally. Care must be taken to always seal the laps correctly, as small openings can reduce the level of acoustic insulation required.



# TECSOUND

TECHNICAL DATA SHEET APTDS-E-120-01



SOUNDPROOF

APPLICATIONS

ROOF

FLOOR

METAL DECK

## PACKAGING AND STORAGE

	TECSOUND			
	35	50	70	100
Weight (Kg/m <sup>2</sup> )	3.5	5	7	10
Thickness (mm.)	1.75	2.5	3.5	5
Length (m.)	8	6	5	4
Width (m.)	1.22	1.22	1.22	1.2
m <sup>2</sup> /roll	9.76	7.32	6.10	4.8
Roll / pallet	24	24	24	21
m <sup>2</sup> / pallet	234.24	175.68	146.4	100.8
Storage	Horizontal in pallets, without stacking. Product supplied in rolls with carton core inside. Store it into the original packaging, in dry conditions and protected from hot temperatures and UV radiation, not exposed to temperatures higher than 35 °C. The maximum period of storage is 1 year.			

## TECHNICAL SPECIFICATIONS

CARACTERÍSTICAS	Test method	TECSOUND	Unit
Density	-	2.010	Kg/m <sup>3</sup>
Tensile strength	NT-67	>30	N/50mm
Elongation	NT-67	> 500	%
Cold flexibility	EN 1109	-20	°C
Tear Strength (nail)	EN 12310-1	153-235	N/50 mm
Fire class	UNE-EN 13501-1	Bs2d0	-
Vapour water resistant factor	UNE-EN 1931 met B	$\mu \geq 1806$	-
Water absorption (24h a 23°C)	ISO 62 met 1	0,003	%
Shore hardness A	NT 74	30 $\pm$ 10	-

## ACOUSTIC SPECIFICATIONS

CARACTERÍSTICAS	Test method	Value	Unit
Young module (E)	-	DM - 1,35637 DT - 1,1744	MPa
Poisson coefficient	-	0,23	-



# TECSOUND

TECHNICAL DATA SHEET APTDS-E-120-01



SOUNDPROOF

APPLICATIONS

ROOF

FLOOR

METAL DECK

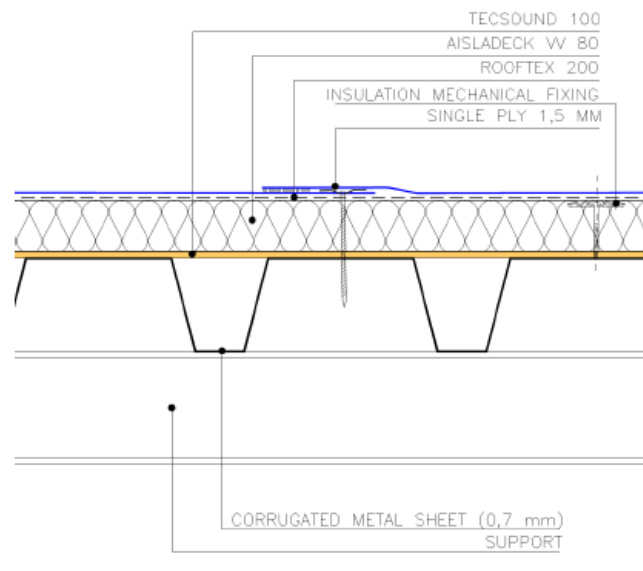
## ACOUSTIC DATA APPLIED PRODUCT

### SYSTEM N-02-CM10.C

Metal deck roof made of a corrugate metal sheet of 0.7 mm. support, **TECSOUND 100** membrane, PIR thermal panel insulation AISLADECK VV 80, separation layer and single ply synthetic FLAGON SR / FLAGON EP/PR.

FREQUENCY (Hz)	R with TECSOUND	R without TECSOUND	Ut
125	23,7	16,4	dB
250	24,2	15,3	dB
500	29,2	23,2	dB
1000	35,4	25	dB
2000	43,4	30,3	dB
4000	54,6	39,7	dB
Weighted Sound Reduction Index A, $R_A$	<b>33</b>	<b>25</b>	dB
Sound Reduction Index, $R_w$	<b>34</b>	<b>26</b>	dB

Data according to the test of acoustic air noise insulation under UNE EN ISO 140-3:1995 standard by approved laboratory SRL (UK).



(\*) To other systems, look to the System catalogue of Acoustic insulation or contact with our Technical Department.

