



SOUNDPROOF

APPLICATIONS

CEILING

WALL

FLOOR

# TECSOUND FT

TECHNICAL DATA SHEET APTDS-E-122-01

## DESCRIPTION

**TECSOUND® FT** is a soundproofing complex made up of the polymer-based, asphalt-free Tecsound synthetic membrane bonded to a porous felt mat, both formed in such a way as to offer excellent acoustic insulation in different building elements: walls, ceilings, roofs, etc.

## ADVANTAGES

- High acoustic insulation, combined with soft, flexible elements (plasterboard, wood, conglomerate) or with brick or concrete walls
- Flexible
- Easy to handle and adaptable to uneven surfaces
- Easy to cut with a knife or scissors
- Cold-and heat-resistance
- Rotproof

## APPLICATION

Soundproofing of horizontal (ceilings) and vertical enclosures, where excellent soundproofing against airborne noise is required.

- Specially recommended in partition walls
- Soundproofing against airborne noise in vertical surfaces
- Soundproofing against airborne noise in ceilings
- Reduction of impact noise level in all types of floors, applied underneath the flooring.

Its main applications cover new jobs and refurbishing work, industry, cinemas, theaters, sports complexes, discos, bars, restaurants, hotels, shopping centers, etc.

## REGULATIONS

- In accordance with CTE-DB-HR, EN ISO 140-1, EN ISO 140-3, EN ISO 140-6, EN ISO 140-8 and EN ISO 717/1/2.
- Quality management system in accordance with ISO 9001

## INSTALLATION

Substrate:

- Tecsound FT 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.
- Of the rendering is old, its condition must be checked to avoid adherence problems of the Tecsound FT or the rendering.

Installation of the membrane:

- Prior to installing the membrane, contact adhesive must be applied to both the substrate and the soundproofing complex.
- 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 a correct adherence.
- The product could be installed mechanically fastened (number of fixings on walls: 4 units/m<sup>2</sup>, on ceilings: 5 units/m<sup>2</sup>). Plastic or PVC fasteners FIJACIÓN PT-H must be used.
- Overlap 5 cm both vertically and horizontally. Care must be taken to always seal the laps correctly, as small openings can reduce the acoustic insulation level required.
- In case of installing the product butt joint, Tecsound Band 50 must be used to seal the joints.

## PRECAUTIONS

- Check that the support is free of sharp elements that could damage the product.
- Plaster the support.
- 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.
- When installed on ceilings a contact adhesive must be used. The bonding must be reinforced with a mechanical fastening.



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## PACKAGING AND STORAGE

	Tecsound FT 40	Tecsound FT 55	Tecsound FT 75
Weight (Kg/m <sup>2</sup> )	4.1	5.6	7.6
Thickness (mm.)	12	12.5	14
Length (m.)	6	5.50	5.50
Width (m.)	1.20	1.20	1.20
m <sup>2</sup> /roll	7.2	6.60	6.60
Roll / pallet	12	12	12
m <sup>2</sup> / pallet	86.4	79.2	79.2
Storage	Horizontal storage in pallets without packaging. 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.		

## TECHNICAL PROPERTIES

CARACTERISTIQUES	Test method	TECSOUND FT	Unit
Density (Tecsound)	-	2.010	Kg/m <sup>3</sup>
Density (felt)	-	60	Kg/m <sup>3</sup>
Compressive strength	ISO 3386-1:1986 Adm 2010	0.06 (10% deformation) 6 (25% deformation)	KPa
Tensile strength	NT-67	>30	N/50mm
Pliability	EN 1109	-20	°C
Tear strength	EN 12310-1	153-235	N/50 mm
Thermal conductivity (felt)	UNE-EN 12667	0.034	W/m·°C

## ACOUSTIC VALUES

CARACTERÍSTICAS	Test method	Value	Unit
Young module (E) (membrane)	-	Longitudinal 1,35637 Transversal 1,1744	MPa
Poisson coefficient (membrane)	-	0,23	-
Impact noise insulation $\Delta L_w$	UNE-EN ISO 140-8:1998	22	dB





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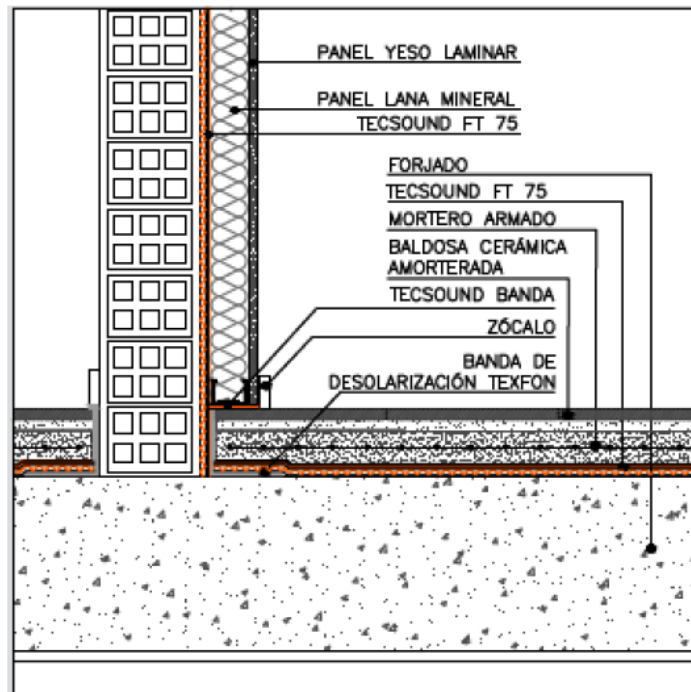
## ACOUSTIC VALUES OF THE INSTALLED PRODUCT

### SYSTEM TR-4

Vertical enclosure composed of ceramic brick wall 14 cm, rendered, TECSOUND® FT 75, 48 mm selfsupporting structure with 45 mm mineral wool inside and 15 mm laminar plasterboard

FRECUENCIAS (Hz)	R with TECSOUND	R wall	Unit
125	40,1	32,9	dB
250	47,7	33,5	dB
500	52,7	41,4	dB
1000	60,1	51,2	dB
2000	64,6	61,3	dB
4000	82,1	68,6	dB
Global index of weighted acoustic reduction A, $R_A$	<b>56</b>	<b>46</b>	dBA
Global index of acoustic reduction, $R_w$	<b>58</b>	<b>46</b>	dB

The above values were obtained from the airborne noise acoustic insulation test according to UNE-EN ISO 10140-2:2011 and it has been carried out by the approved laboratory Applus. The acoustic calculation software is INSUL v8 from Marshall Day Acoustics.



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

