

## ACUSTIDAN 16/4

ACUSTIDAN 16/4 is a multi-layer panel made of a mass loaded high-density membrane and a porous textile layer.  
Acoustically it works as a low frequency sound insulation.



### TECHNICAL DATA

TECHNICAL DATA	VALUE	UNIT	STANDARD
Airborne sound insulation, $R_w$	55	dB	EN 140-3 EN 717-1
Thickness tolerance	5	%	EN 823
Length and width tolerance	< 5	%	EN 822
Membrane density	1800 +/- 5%	kg/m <sup>3</sup>	EN 845
Density of the porous material	50 +/- 5%	kg/m <sup>3</sup>	EN 845
Nominal membrane mass	6.5 +/- 5%	kg/m <sup>2</sup>	EN 1849-1
Airflow resistance of the porous textile	25	KPa.s/m <sup>2</sup>	EN 29053
Resistance to tearing (nail shank)	> 370	KN/m	EN 12310-1
Tensile strength: longitudinal	> 460	N/5 cm	EN 12311-1
Tensile strength: transversal	> 260	N/5 cm	EN 12311-1
Work temperature	-20 / +70	°C	-
Reaction to fire	F	Euroclase	EN 13501-1
Membrane thermal conductivity 10°C	0.130	w/m <sup>0</sup> K	EN 12667 EN 12939
Textile layer thermal conductivity 10°C	0.040	w/m <sup>0</sup> K	EN 12667 EN 12939
Total thermal resistance	0.58	m <sup>2</sup> K/W	EN 12667 EN 12939

### INFORMACIÓN MEDIOAMBIENTAL

Environmental Information	Declared Value	Units	Norm
Content of recycled raw material	24	%	-
Pre-consumer Recycled Content	0	%	-
Post-consumer Recycled Content	100	%	-
Manufacturing Location	Fontanar, Guadalajara (España)	-	-
Volatile organic compounds (VOCs)	< 100	µg/m <sup>3</sup>	ISO 16000-6:2006.



Decree No. 2011-321 of  
23 March 2011 the  
Ministry French Ecology,  
Sustainable Development,  
Transportation and  
Housing

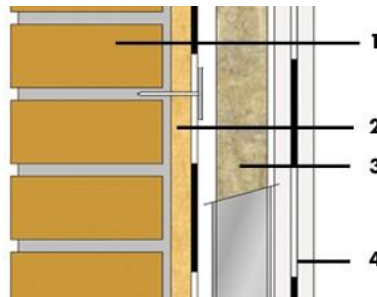
### STANDARDS AND CERTIFICATION

Acoustic certifications resulting from approved laboratory tests.

Laboratory	Test (EN 140-3) No	Result (EN 717-1)
L.G.A.I. (1)	110.922	$R_w = 39$ dB
L.G.A.I. (2)	98.004.277	$R_w = 50$ dB
L.G.A.I. (3)	98.012.321	$R_w = 55$ dB

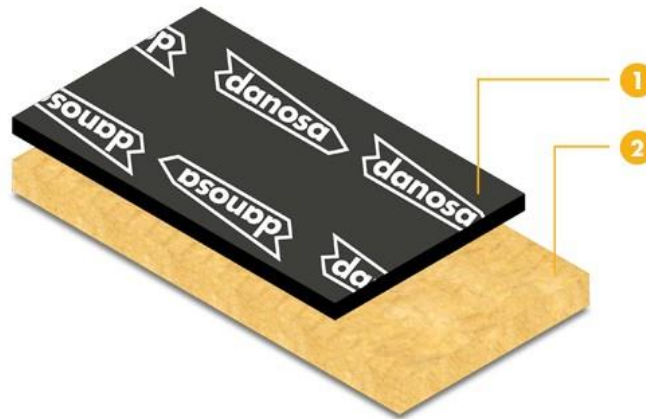
## SCOPE

- Commonly used in shops, bars, cinemas and discotheques, it improves the insulation against low frequencies compared to the traditional insulation based on mineral wool.
- Used inside plasterboard chambers in hotels or housing rehabilitation.
- Used around drain pipes to its isolation.



**PRESENTATION**

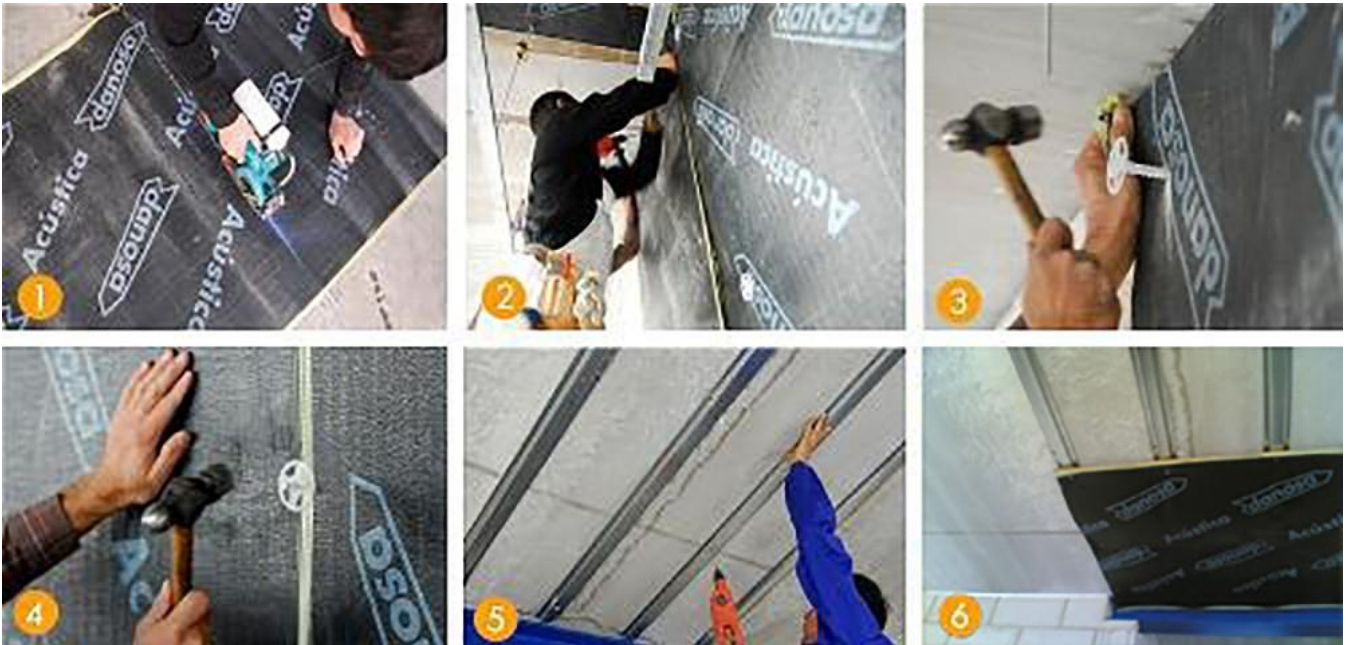
PRESENTATION	VALUE	UNIT
Length	6	m
Width	1	m
Total thickness	20	mm
Membrane thickness	4	mm
porous material thickness	16	mm
Overlap	30	mm
Weight	7	kg/m <sup>2</sup>
Rolls per pallet	12	ud
m <sup>2</sup> per pallet	72	m <sup>2</sup>
Product Code	610080	-



1. High-density polymeric mass
2. Porous material

**INSTRUCTION FOR USE**

An installation of the ACUSTIDAN 16/4 is shown in the following pictures:



1. Cut the product
2. Placement against wall
3. Clamp with insulation fixing
4. Insulation fixing in the overlap
5. In ceiling, install profile
6. Fix the product with screws

## INDICATIONS AND IMPORTANT RECOMMENDATIONS

- The solution proposed floating ceilings for the commercial premises can not be gone through the technical installations.
- The finishing of plaster on the brick walls must have at least a thickness of 1 cm.
- To cut ACUSTIDAN 16/4 a low rpm manual machine should be used: MAKITA 4191 DW water cooling system or similar, with cutting asphalt disc 85 – 6 MAKITA. ELYWOOD SAW BLADE 3 - 3 / 8” x 15 mm.
- If a battery drilling machine is used (never plugged into the net) the drill bit should be immersed in water to avoid the asphalt from sticking to it.
- Check the product's technical sheet on safety.
- For further information, please contact our technical staff.

## WARNING

The information contained in this document and any other advice provided, are given in good faith, based on TIKIDAN's current knowledge and experience when products are properly stored, handled and applied, in normal situations and in accordance with the recommendations of TIKIDAN. The information applies only to the application (s) and the product (s) to which reference is expressly made. In case of changes in the parameters of the application, or in case of a different application, consult the TIKIDAN Technical Service before using the TIKIDAN products. The information contained herein does not exonerate the responsibility of the building agents to test the products for the application and intended use, as well as their correct application in accordance with current legal regulations.

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