

THERMAL-ACOUSTIC INSULATION IN SELF-SUPPORTING PANELS, MADE OF HEAT-BONDED POLYESTER FIBRE, ADHESIVE FREE, NON-TOXIC, FOR FILLING AND REDUCING THE RESONANCE OF BRICK CAVITY WALLS OR PLASTERBOARD FALSE WALLS AND CEILINGS **MOUNTED TO METAL FRAMES**

GRANTS *LEED* CREDITS



PROBLEM

When laying in homes that are already inhabited, it is advisable to use a product that can be handled without any particular precautions.

SOLUTION

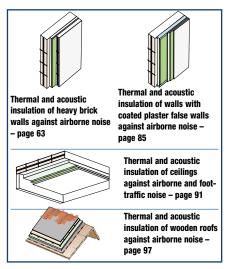
SILENTEco is an insulation product in panels with base of polyester fibre bonded exclusively with a glue-free thermal procedure. The fibre derives from recycled PET soft drink and mineral water bottles. It may consequently be considered as an ecological product because it frees the environment of high volumes of waste, recovers considerable energy and raw material resources and the panel is also nontoxic seeing as it is fabricated with a physical process that is free from pollutant glues and resins. It does not contain mineral fibres, it is not irritant and does not sting. It is an extremely flexible panel and can be handled without any precautions in particular, seeing as the fibre does not break when folded.

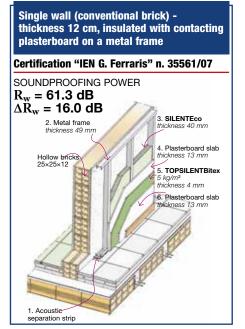
APPLICATION FIELDS

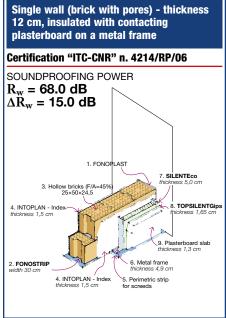
It is used as an insulating filler for air spaces between traditional brick walls and air spaces between false-walls and false-ceilings in plasterboard. In view of the fact that is nontoxic, it is particularly appreciated in refurbishing homes that are already inhabited.

METHOD OF USE

The panels are mounted in the air spaces of brick walls as the same are progressively erected, whereas they are inserted in the dedicated seats of metal frames on which plasterboard panels are secured. The panels are to be kept under cover and away from damp. The panel can be cut using a longbladed Stanley knife or alternatively with a saw with smooth blade. Toothed saws are not suitable.







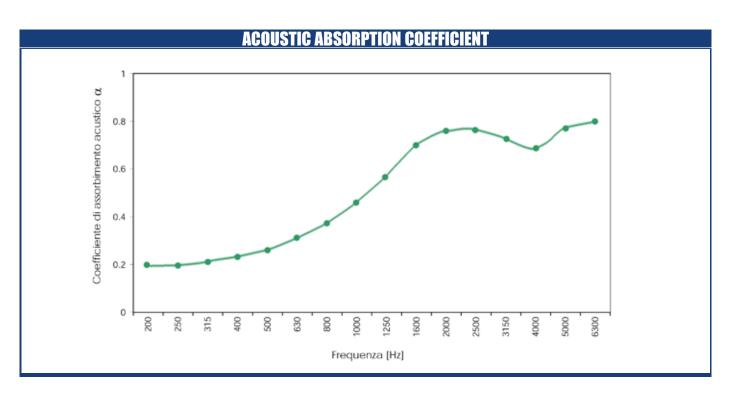






		SILENTEco		
Туре		40	50	60
Thickness		40 mm	50 mm	60 mm
Dimension		0.60×1.45 m	0.60×1.45 m	0.60×1.45 m
Thermal conductivity λ		0.040 W/mK	0.040 W/mK	0.040 W/mK
Thermal resistance R	EN 12667	1.00 m ² K/W	1.25 m ² K/W	1.50 m ² K/W
Density.	UNI 9947	20 kg/m³		
Diameter of fibres		17.9÷28 μm		
Dynamic stiffness	UNI EN 29052/1	s' < 2 MN/m ³		
Resistivity to air flow r		2.26 KPas/m ²		
Aqueous vapour diffusion coefficient		μ=1		
Specific heat.		1.20 KJ/kgK		
Lower heating power		21 600 W/mK		
Operating temperature range		-40°C ÷ +110°C		
Fire reaction classification of the soundproof foil (*)	UNI 9177	Euroclass B, s2-d0 (¹)		
Certification				

⁽¹⁾ Certificate LAPI n. 730.0DC0050/06.



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