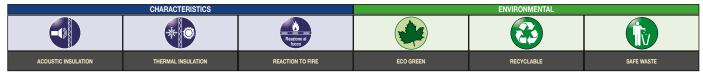


THERMOSILENTRock

THERMAL-ACOUSTIC INSULATION IN RIGID PANELS OF WATER-REPELLENT ROCK WOOL FOR THERMALLY INSULATING OUTER WALLS WITH JACKET INSULATION OR ROOFS



1 PROBLEM

Wooden roofs, which are particularly light in comparison with clay cement roofs, require insulation with high density fibre panels.

2 SOLUTION

THERMOSILENTRock is a thermal and acoustic insulation panel ideally suited for insulating wooden roofs, whether ventilated or not. It consists of a rigid fireproof panel of high density rock wool treated with thermosetting resins.

THERMOSILENTRock is fire resistant and is classified A1 pursuant to standard EN 13501-1 and class 0 pursuant to Italian standards. The rock fibre of **THERMOSILENTRock** is insensitive to damp and the panel remains stable as the temperature varies.

APPLICATION FIELDS

THERMOSILENTRock is used to thermally and acoustically insulate outer walls with the jacket installation method and as thermal and acoustic insulation for low density roofs, such as ventilated and unventilated wooden roofs and sheet metal roofs.

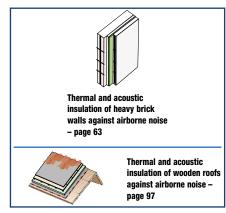
METHOD OF USE

The **THERMOSILENTRock** panel is generally laid directly onto the vapour barrier film over the entire area of the roof, due to its heigh density and compactness, the tile slats can be installed directly over the **THERMOSILENTRock** panel and secured with nails or mechanical mounting to the underlying board (which thus includes the **THERMOSILENTRock** panels).

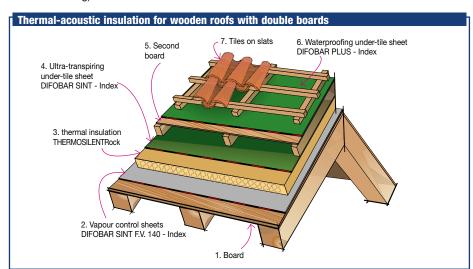
The **THERMOSILENTRock** panel is generally installed directly onto the vapour barrier layer,

sandwiched between wooden slats of the same thickness as the insulation itself, when constructing wooden roofs, whether ventilated or not. Depending on the thermal and acoustic requirements, the THERMOSILENTRock panels may also be installed in several layers to obtain the maximum insulation and energy rating. The THERMOSILENTRock panel, due to its high density, is easy to handle and cut as needed on site (a cutter or even a kitchen knife will do the job).

For jacket insulation jobs, the substrate must be clean and free of dust. The laying surface must be flat and regular. Secure the supporting profiles before gluing the panels (the first row of panels, closest to ground level, must be in extruded polystyrene without coating).



It can be glued with cement adhesive or paste (like COATBOND, COATBOND FINE FIBER, RASOFINE ADHESIVE). Apply the adhesive in a strip around the perimeter and several points at the centre or with a toothed trowel, and apply in horizontal layers from the bottom upwards. Wait at least 24 hours for the glue to harden before applying mushroom head anchor bolts.









THERMOSILENTRock

			THERMOOR						
Туре		40	50	60	80	100	120	140	
Thickness		40 mm	50 mm	60 mm	80 mm	100 mm	120 mm	140 mm	
Dimension		1.0×1.2 m	1.0×1.2 m	1.0×1.2 m	1.0×1.2 m	1.0×1.2 m	1.0×1.2 m	1.0×1.2 m	
Thermal conductivity λ		0.036 W/mK	0.036 W/mK	0.036 W/mK	0.036 W/mK	0.036 W/mK	0.036 W/mK	0.036 W/m	
Thermal resistance R _D	EN 12667	1.10 m ² K/W	1.35 m ² K/W	1.65 m ² K/W	2.20 m ² K/W	2.75 m ² K/W	3.30 m ² K/W	3.85 m ² K/V	
Density.	UNI 9947	120 kg/m³							
Dynamic stiffness	UNI EN 29052/1	s' < 20 MN/m ³							
Resistivity to air flow r		60 KPas/m²							
Aqueous vapour diffusion coefficient		μ=1							
Specific heat.		1.03 KJ/kgK							
Lower heating power					21 600 W/mk	(
Compressive strength at 10% compression	EN 826	30 kPa [CS(10)30]							
Traction resistance	EN 1607	> 10 KPa							
Shear resistance	EN 12090	> 20 KPa							
Operating temperature range		-40°C ÷ +110°C							
Fire reaction classification	EN 13501-1	Euroclass 1							
CE thermal insulation code	EN 13162	MW EN 1	3162-T7-CS(1	0)30-TR10-P	L(5)400-WS-V	VL(P)-MU1-SI	D20-CP2-AW	0,95-Afr60	

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6/2018ing-6/2017