

ACOUSTIC INSULATION  
WITHOUT LEAD LAYER  
FOR WALLS AND CEILINGS

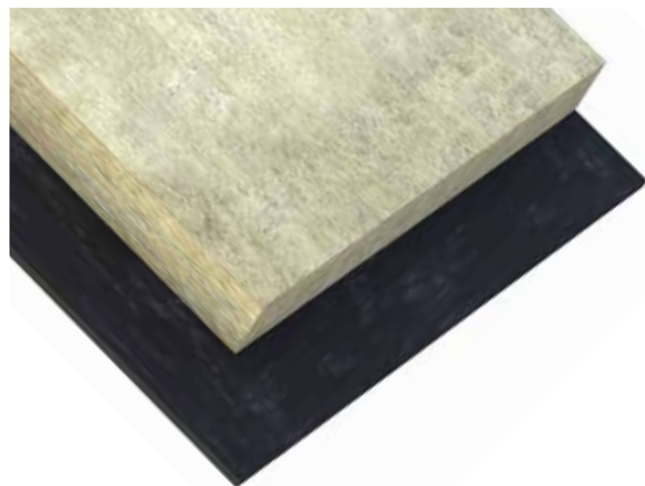
## Geogum L M

Geogum L M is a high-performance thermal and acoustic insulation panel.

The panel consists of mineral wool fibres, bonded with thermosetting resins with a high density of  $120 \text{ kg/m}^3$ , coupled with an acoustic polymer bitumen membrane with a mass-to-area ratio of  $4.2 \text{ kg/m}^2$ .

The combination of these two components allows for a very high acoustic performance, thanks to the sound-absorbing properties of the mineral wool and the mass-spring behaviour of the flexible but high areic mass membrane.

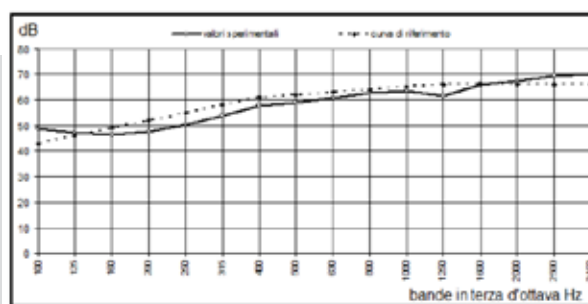
The panels can be glued with coat-type adhesives and the special selvedge exclusive to GEOGUM L M avoids air passages and eliminates the acoustic bridge caused by misaligned installation in the wall.



CHARACTERISTICS	M.U.	VALUE
DIMENSION	m	1,20X1
MINERAL WOOL PANEL THICKNESS	mm	50
ACOUSTIC MEMBRANE THICKNESS	mm	3
MINERAL WOOL DENSITY	$\text{kg/m}^3$	120
MEMBRANE DENSITY	$\text{kg/m}^3$	1500
MINERAL WOOD THERMAL CONDUCTIVITY	$\text{W/m}^{\circ}\text{K}$	0,035
MEMBRANE THERMAL CONDUCTIVITY	$\text{W/m}^{\circ}\text{K}$	0,4
MINERAL WOOL SPECIFIC HEAT	$\text{KJ/kg}^{\circ}\text{C}$	1200
MEMBRANE SPECIFIC HEAT	$\text{KJ/kg}^{\circ}\text{C}$	1600
MINERAL WOOL VAPOUR PERMEABILITY	$\mu$	5
MEMBRANE VAPOUR PERMEABILITY	$\mu$	100.000
SOUNDPROOFING CAPACITY *	Rw	62 (-2;+5)
AVERAGE PERFORMANCE INCREASE Rw	dB	18÷22
COMPRESSIVE STRENGTH AT 10% DEFORMATION	kPa	50

\*(8 CM PERFORATED PLASTER + PLASTER + GEOGUM L M + 8 CM PERFORATED PLASTER + PLASTER)

Potere fonoisolante apparente UNI EN 140-4				
Indice di valutazione per rumori aerei (UNI EN ISO 717-1)				
frequenza	R	ISO 717-1	scarti	
100	48,85	33	43	0,0
125	46,88	36	46	0,0
160	46,31	39	49	2,7
200	47,48	42	52	4,5
250	50,36	45	55	4,6
315	53,74	48	58	4,3
400	57,80	51	61	3,2
500	59,01	52	62	3,0
630	60,64	53	63	2,4
800	62,70	54	64	1,3
1000	63,74	55	65	1,3
1250	61,57	56	66	4,4
1600	66,05	56	66	0,0
2000	67,58	56	66	0,0
2500	69,46	56	66	0,0
3150	69,96	56	66	0,0
		somma scarti =	31,6	
		<b>R<sub>av</sub> =</b>	<b>62</b>	La somma degli scarti sfavorevoli < 32



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