

Volcalis

mineral insulation



ALPHA PLUS

Mineral Wool in Slab with High Thermal Resistance


λ32

Compact semi-rigid slab, with excellent thermal properties, for application in construction and rehabilitation systems.

Applications

Volcalis ALPHA PLUS is an excellent thermal and acoustic insulation for application in all type of buildings.

Suitable for use in construction and rehabilitation works, such as: partitions, wall lining, ceilings, roofs and facades.



Benefits

- Good thermal behavior, contributes to the comfort of buildings and reduces energy consumption.
- Due to its internal structure, it is an excellent acoustic insulation.
- Fire resistant, not combustible or conductive to heat.
- Water repellent.
- Results from a sustainable process that uses raw materials and advanced technologies of high efficiency. It's a 100% recyclable product.



thermal insulation



acoustic insulation



non-combustible



all around application



sustainable process



comfortable application

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ALPHA PLUS Slab



Dimensions

Thickness (mm)	40	50	60	80	100	120	140	160
Width (mm)	600				600			
Length (mm)	1350				1350			

Logistics

Un. Packing	10	8	7	5	4	3		
m ² Packing	8,10	6,48	5,67	4,05	3,24	2,43		
Packing by Pallet	24				24			
m ² Pallet	194,40	155,52	136,08	97,20	77,76	58,32		

Technical Data

Thermal Resistance (m ² .K/W)	1,25	1,55	1,85	2,50	3,10	3,75	4,35	5,00
Thermal Conductivity (W/m.K)	0,032				0,032			
Reaction to Fire	A1				A1			
Thickness Tolerance	T2				T2			
Air Flow Resistivity (kPa.s/m ²)	≥ 10				≥ 10			
Short Term Water Absorption (kg/m ²)	≤ 1				≤ 1			
Water Vapor Resistance Diffusion Factor (μ)	1				1			
Designation Code	MW-EN13162-T2-MU1-WS-AFr10-AW0,85 (40mm) MW-EN13162-T2-MU1-WS-AFr10-AW1 (≥50 mm)							

Sound absorption (EN ISO 11654)

Weighted coefficient (α _w)	0,85	1
Absorption class	B	A

Coefficient of sound absorption (α_s)

Freq. (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
α _s (e=40 mm)	0,06	0,20	0,24	0,41	0,49	0,68	0,87	0,88	0,96	1,01	0,98	1,02	1,03	1,02	1,02	1,03	1,07	1,07
α _s (e=50 mm)	0,24	0,18	0,32	0,62	0,75	0,96	1,05	1,12	1,13	1,17	1,09	1,03	1,07	1,07	1,00	1,07	1,09	1,06

Essays ITeCons, EN ISO 354, ACL 016/23 ALPHA PLUS 40 mm, ACL 173/23 ALPHA PLUS 50 mm

Transportation and Storage

It is not a dangerous product and therefore does not require special transport precautions. Store in a dry place, protected from moisture and sun. Do not store outside of the original packaging. The packagings are coated with thermo-retractable polyethylene film and later packed with a Multipack system.

Installation

Easy to handle product. After opening the packaging, wait about 5 minutes for the product to recover to the desired thickness. During installation, wear long-sleeved clothing and gloves. If work is done above eye level, wear a mask and goggles.

Certificates



Designed and manufactured in Portugal

Additional information available at www.volcalis.pt

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