

# Volcalis

mineral insulation



## ALPHA

### Mineral Wool in Slab with improved performance

Compact slab of excellent acoustic performance for application in dry construction systems.

  
**λ35**

#### Applications

Volcalis ALPHA 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 and ceilings.



Partitions



Wall lining



Ceilings

#### Benefits

- Very good thermal performance, 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.
- 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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DOC 04.01-22/REV02  
startupdesign.pt

## ALPHA, Slab



### Dimensions

Thickness (mm)	<b>45</b>	<b>60</b>	<b>85</b>
Width (mm)	600	600	600
Length (mm)	1350	1350	1350

### Logistics

Un. Packing	14	11	8
m <sup>2</sup> Packing	11,34	8,91	6,48
Packing by Pallet	24	24	24
m <sup>2</sup> Pallet	272,16	213,84	155,52

### Technical Data

Thermal Resistance (m <sup>2</sup> .K/W)	1,25	1,70	2,40
Thermal Conductivity (W/m.K)	0,035	0,035	0,035
Reaction to Fire	A1	A1	A1
Thickness Tolerance	T2	T2	T2
Air Flow Resistivity (kPa.s/m <sup>2</sup> )	≥ 10	≥ 10	≥ 10
Water Vapor Resistance Diffusion Factor (μ)	1	1	1
Designation Code	MW-EN 13162-T2-AFr10		

### Sound absorption (EN ISO 11654)

Weighted coefficient (α <sub>w</sub> )	<b>1</b>
Absorption class	<b>A</b>

### Coefficient of sound absorption (αS)

Freq. (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
αS (e=45 mm)	0,06	0,17	0,24	0,56	0,64	0,91	0,95	1,11	1,12	1,14	1,08	1,03	1,07	1,07	1,08	1,04	1,03	1,05
αS (e≥60 mm)	0,12	0,26	0,36	0,54	0,72	0,90	0,99	1,05	1,04	1,10	1,08	1,03	1,04	1,04	1,02	1,07	1,04	1,03

Essays ITeCons, EN ISO 354, ACL 345/18 ALPHA 45 mm, ACL 325/18 ALPHA 60 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

Volcalis new plant is located in the centre of Portugal, and has easy access to maritime, rail and roadway networks. It is close to the port of Aveiro which allows the shipment of large quantities of mineral wool to the whole world. Additional information available at [www.volcalis.pt](http://www.volcalis.pt)