

Volcalis

efficient and safe insulation



Partitions



Wall lining



Ceilings



Roofs



Facades



mineral wool



Thermal
insulation



Acoustic
insulation



Non-combustible



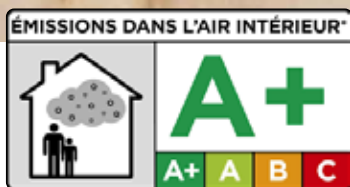
Indoor
air quality

From the best raw material, confort is born

VOLCALIS – Isolamentos Minerais, S.A. a Portuguese company owned by the Preceram Group, is dedicated to the production of mineral wool through an absolutely innovative and unique production process in Portugal.

Volcalis offers a wide range of high quality and ecological solutions to the market, contributing to the comfort and thermal and acoustic efficiency of the buildings, by using the best raw materials and the highest technologies with great efficiency and rigor.

This product of growing demand in the construction sector comes to increase the wide range of solutions offered by the Preceram Group companies and, more directly, to complement the gypsum board systems of Gyptec Ibérica.



Volcalis mineral wool is a non-combustible, fire-resistant material, free of harmful substances and ensuring a healthy indoor environment.

Volcalis is rated A + for indoor air quality, the best indoor air quality classification, meaning very low or no emissions of substances in indoor air.

* Information on the emission level of volatile substances for indoor air, presenting a risk of toxicity due to inhalation, on a class scale that varies from A+ (very low emissions) to C (high emissions).



Environmental Certification ISO 14001 and Quality Certification ISO 9001

Volcalis assesses its environmental significant aspects and identifies the risks and opportunities associated with its activities fulfilling the requirements specified in the standards NP EN ISO 9001: 2015 and NP EN ISO 14001: 2015 for the activity of production and commercialization of Mineral Wool.

The rediscovery of mineral wool

Discover the unmatched comfort of installation with a soft touch. Volcalis mineral wool is an ecological product based on sand and binder of biological origin, made in Portugal, available in rolls and slabs, with high thermal and acoustic performance, fire resistant, easy to apply and to handle.



Its production uses natural and ecological materials. Volcalis mineral wool makes it possible to reduce the CO₂ emissions associated with its transport, since it is highly compressible and reduces the number of transportations required by approximately 10 times. Volcalis mineral wool does not release volatile pollutants so it is harmless to health.



Comfortable application

Volcalis mineral wool has a soft touch and it's easy to handle.

Sustainable process

Making use of the best raw materials and high-efficiency advanced technologies, the new plant will provide the market with sustainable and high-quality mineral wool solutions.



Volcalis

Benefits



Designed and manufactured in Portugal

Volcalis mineral wool is produced in the center of Portugal, which allows it to be centralized in distribution, guaranteeing a low ecological footprint and lower transport costs. All the optimization of the production, storage and logistics process allows it to present itself on the market with the best cost-benefit ratio.

Fire resistant

Mineral wool is a reliable fire protection material because it is non-combustible and it does not conduct heat.



All around application

Mineral wool is used in a wide range of applications, both for new construction and for rehabilitation, on ceilings, partition walls and wall linings, for thermal and acoustic insulation.



Thermal and acoustic insulation

The excellent thermal properties of mineral wool contribute to comfortable buildings with low energy consumption. As a result of its internal structure, Volcalis mineral wool is an outstanding sound insulation material.

Recommended applications

	 Partitions	 Wall lining	 Ceilings	 Pitched roofs	 Metal roofs	 Metal facades	 Ventilated facades	Page
EASY								
Roll Kraft Paper			●	●				6
Roll			●		●			7
Roll Alu Kraft				●				7
Reinforced Roll						●		7
COMFORT								
Slab	●	●	●					8
Roll	●	●	●					9
Slab Kraft Paper		●	●					9
Slab SR		●						9
ALPHA								
Slab	●	●	●					10
Roll	●	●	●					11
Slab Kraft Paper		●	●					11
Roll Black Veil							●	11
ALPHA PLUS								
Roll	●	●	●	●			●	12
Slab	●	●	●	●			●	13
Slab Kraft Paper		●	●	●				13

Volcalis product range

EASY
λ40



Mineral Wool in Roll

Volcalis **EASY**, mineral wool roll with or without coating. Light and easy to apply, with good thermal and acoustic performance.

COMFORT
λ37



Mineral Wool in Slab or Roll

Volcalis **COMFORT** is suitable for multiple applications, ideal for increasing the thermal and acoustic comfort of buildings.

ALPHA
λ35



Mineral Wool with improved performance

Volcalis **ALPHA**, mineral wool with improved performance. Non-combustible, of very low thermal conductivity, and excellent acoustic performance.

ALPHA PLUS
λ32



Mineral wool with high thermal resistance

Volcalis **ALPHA PLUS**, mineral wool in panel or roll with high thermal resistance. With excellent thermal and acoustic properties.

Mineral Wool

Slab and Roll



EASY

λ40

Mineral Wool in Roll

Volcalis **EASY**, mineral wool roll with or without coating.
Light and easy to apply, with good thermal and acoustic performance.

Applications

Volcalis **EASY** is an excellent thermal and acoustic insulation for application in all types of buildings.

Suitable for use in construction and rehabilitation works such as: ceilings, pitched roofs and built-up metal roofs and facades.

Benefits

- 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.



Ceilings



Pitched roofs



Metal roofs



Metal facades

EASY Roll Kraft Paper

λ40



Dimensions

Thickness (mm)	50	60	80
Width (mm)	600 / 1 200		
Length (mm)	14 400	12 000	10 000

Technical Data

Thermal Resistance (m ² .K/W)	1,25	1,50	2,00
--	------	------	------

Dimensions

Thickness (mm)	100	120	140	160	200	220	240	260	280
Width (mm)	1 200								
Length (mm)	8 000	7 000	6 000	5 200	4 600	4 000	3 600	3 200	2 800

Technical Data

Thermal Resistance (m ² .K/W)	2,50	3,00	3,50	4,00	5,00	5,50	6,00	6,50	7,00
--	------	------	------	------	------	------	------	------	------

Thermal Conductivity (W/m.K): **0,040**

Reaction to Fire: **F**

Resistance to Water Vapor Z (m².h.Pa/mg): **3**

Certificates



ACERMI CERTIFICATE N° 20/252/1473
Thickness: 60 to 280



Applications



EASY Roll

λ40



Dimensions

Thickness (mm)	50	60	80	100	120	140	160	200	220
Width (mm)	1 200								
Length (mm)	14 400	12 000	10 000	8 000	7 000	6 000	5 200	4 600	4 000

Technical Data

Thermal Resistance (m ² .K/W)	1,25	1,50	2,00	2,50	3,00	3,50	4,00	5,00	5,50
--	------	------	------	------	------	------	------	------	------

Thermal Conductivity (W/m.K): **0,040** Reaction to Fire: **A1** Water Vapor Resistance Diffusion Factor (μ): **1**

Certificates



ACERMI CERTIFICATE N° 20/252/1471
Thickness: 60 to 280



Applications



EASY Roll Alu Kraft

λ40



Dimensions

Thickness (mm)	60	80	100	200
Width (mm)	1 200			
Length (mm)	12 000	10 000	8 000	4 000

Technical Data

Thermal Resistance (m ² .K/W)	1,50	2,00	2,50	5,00
--	------	------	------	------

Thermal Conductivity (W/m.K): **0,040** Reaction to Fire: **B-s1,d0** Resistance to Water Vapor Z (m².h.Pa/mg): **9**

Certificates



Applications



EASY Reinforced Roll

λ40



Dimensions

Thickness (mm)	60	80	100
Width (mm)	1 200		
Length (mm)	10 000	7 500	6 000

Technical Data

Thermal Resistance (m ² .K/W)	1,50	2,00	2,50
--	------	------	------

Thermal Conductivity (W/m.K): **0,040** Reaction to Fire: **A1** Short Term Water Absorption (kg/m²): **≤ 1**

Certificates



Applications



Mineral Wool

Slab and Roll



COMFORT



λ37

Mineral Wool in Slab or Roll

Suitable for multiple applications, ideal for increasing the thermal and acoustic comfort of buildings.

Applications

Volcalis COMFORT is an excellent thermal and acoustic insulation for application in all types of buildings.

Suitable for use in construction and rehabilitation works, such as: partitions, ceilings, interior wall lining and ventilated 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.
- Results from a sustainable process that uses raw materials and advanced technologies of high efficiency. It's a 100% recyclable product.



Partitions



Wall lining



Ceilings

COMFORT Slab

λ37



Dimensions

	50	60	70	90	NEW! 100	NEW! 120
Thickness (mm)						
Width (mm)				600		
Length (mm)				1 350		

Technical Data

Thermal Resistance (m ² .K/W)	1,35	1,60	1,85	2,40	2,70	3,20
--	------	------	------	------	------	------

Sound absorption (EN ISO 11654)

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

Thermal Conductivity (W/m.K): 0,037

Reaction to Fire: A1

Air Flow Resistivity (kPa.s/m²): ≥ 5

Water Vapor Resistance Diffusion Factor (μ): 1

Certificates



MW-EN13162-T2-MU1-AW0,85-AFr5 (50 mm)
MW-EN13162-T2-MU1-AW1-AFr5 (≥ 60 mm)



Applications



COMFORT Roll

λ37



Dimensions

Thickness (mm)	50	60	70	90
Width (mm)	400 / 600			
Length (mm)	13 200	11 000	9 500	7 400

Technical Data

Thermal Resistance (m ² .K/W)	1,35	1,60	1,85	2,40
--	------	------	------	------

Sound absorption (EN ISO 11654)

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

Thermal Conductivity (W/m.K): **0,037** Reaction to Fire: **A1** Air Flow Resistivity (kPa.s/m²): **≥ 5**
 Water Vapor Resistance Diffusion Factor (μ): **1**

Certificates

CE MW-EN13162-T2-MU1-AW0,85-AFr5 (50 mm)
 MW-EN13162-T2-MU1-AW1-AFr5 (≥ 60 mm)



Applications



COMFORT Slab Kraft Paper

λ37



Dimensions

Thickness (mm)	50	60	75	100	120	150
Width (mm)	600					
Length (mm)	1 350					

Technical Data

Thermal Resistance (m ² .K/W)	1,35	1,60	2,00	2,70	3,20	4,05
--	------	------	------	------	------	------

Thermal Conductivity (W/m.K): **0,037** Reaction to Fire: **F** Resistance to Water Vapor Z (m².h.Pa/mg): **3**

Certificates

CE MW-EN13162-T2 -Z3



Applications



COMFORT Slab SR

λ37



Dimensions

Thickness (mm)	50	60	75	100	120
Width (mm)	600				
Length (mm)	1 350				

Technical Data

Thermal Resistance (m ² .K/W)	1,35	1,60	2,00	2,70	3,20
--	------	------	------	------	------

Thermal Conductivity (W/m.K): **0,037** Reaction to Fire: **A1** Air Flow Resistivity (kPa.s/m²): **≥ 5**
 Water Vapor Resistance Diffusion Factor (μ): **1** Short Term Water Absorption (kg/m²): **≤ 1**

Certificates

CE MW-EN 13162-T2-MU1-WS-AFr5



Applications



Mineral Wool

Slab and Roll

ALPHA

λ35

Mineral Wool in Slab or Roll with Improved Performance

Non-combustible, of very low thermal conductivity, and with excellent acoustic performance.

Applications

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

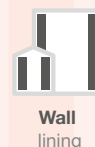
Suitable for use in construction and rehabilitation works, such as: partitions, wall linings, ceilings and ventilated facades.

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.



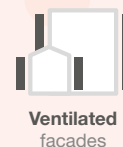
Partitions



Wall lining



Ceilings



Ventilated facades

ALPHA Slab

λ35


Dimensions

	NEW!		NEW!		
Thickness (mm)	50	60	70	85	100
Width (mm)	600				
Length (mm)	1 350				

Technical Data

Thermal Resistance (m ² .K/W)	1,40	1,70	2,00	2,40	2,85
--	------	------	------	------	------

Sound absorption (EN ISO 11654)

Weighted coefficient (α _w)	1
Absorption class	A

Thermal Conductivity (W/m.K): **0,035** Reaction to Fire: **A1** Air Flow Resistivity (kPa.s/m³): **≥ 10**
 Water Vapor Resistance Diffusion Factor (μ): **1** Weighted Sound Absorption Coefficient EN ISO 11654 (α_w): **1**
 Absorption class EN ISO 11654: **A**

Certificates



MW-EN13162-T2-MU1-AW1-AFr10



ACERMI CERTIFICATE N° 23/252/1607
Thickness: 45 to 140



Applications



ALPHA Roll

λ35



Dimensions

	NEW!					NEW!
Thickness (mm)	50	60	70	85	100	140
Width (mm)	400 / 600					1 200
Length (mm)	12 000	10 200	8 500	7 000	6 000	4 000

Technical Data

Thermal Resistance (m ² .K/W)	1,40	1,70	2,00	2,40	2,85	4,00
--	------	------	------	------	------	------

Sound absorption (EN ISO 11654)

Weighted coefficient (α _w)	1
Absorption class	A

Thermal Conductivity (W/m.K): **0,035** Reaction to Fire: **A1** Air Flow Resistivity (kPa.s/m²): **≥ 10**
 Water Vapor Resistance Diffusion Factor (μ): **1** Weighted Sound Absorption Coefficient EN ISO 11654 (α_w): **1**
 Absorption class EN ISO 11654: **A**

Certificates



MW-EN13162-T2-MU1-AW1-AFr10



ACERMI CERTIFICATE N° 23/252/1607
Thickness: 45 to 140



Applications

ALPHA Slab Kraft Paper

λ35



Dimensions

Thickness (mm)	50	60	85
Width (mm)	600		
Length (mm)	1 350		

Technical Data

Thermal Resistance (m ² .K/W)	1,40	1,70	2,40
--	------	------	------

Thermal Conductivity (W/m.K): **0,035** Reaction to Fire: **F** Resistance to Water Vapor Z (m² .h.Pa/mg): **3**

Certificates



MW-EN13162-T2-Z3



ACERMI CERTIFICATE N° 23/252/1609
Thickness: 45 to 85



Applications

ALPHA Roll Black Veil

λ35



Dimensions

Thickness (mm)	50	60	80	100	120
Width (mm)	600				
Length (mm)	10 000	8 000	6 000	5 000	4 200

Technical Data

Thermal Resistance (m ² .K/W)	1,40	1,70	2,25	2,85	3,40
--	------	------	------	------	------

Sound absorption (EN ISO 11654)

Weighted coefficient (α _w)	1
Absorption class	A

Thermal Conductivity (W/m.K): **0,035** Reaction to Fire: **A1** Air Flow Resistivity (kPa.s/m²): **≥ 10**
 Short Term Water Absorption (kg/m²): **≤ 1** Weighted Sound Absorption Coefficient EN ISO 11654 (α_w): **1**
 Absorption class EN ISO 11654: **A**

Certificates



MW-EN13162-T2-WS-AW1-AFr10



Applications

Mineral Wool

Slab and Roll



ALPHA PLUS

λ32

Mineral Wool in Panel or Roll with High Thermal Resistance

Semi-rigid compact panel, supplied in panel or roll, with excellent thermal and acoustic properties, with or without coating, for application in construction and rehabilitation systems.

Applications

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

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

Benefits

- Excellent thermal performance with smaller thickness.
- Easy to handle and with soft touch.
- 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.



ALPHA PLUS Roll

λ32



Dimensions

Thickness (mm)	40	50	60	80
Width (mm)	400 / 600			
Length (mm)	8 500	7 000	6 000	4 500

Technical Data

Thermal Resistance (m ² .K/W)	1,25	1,55	1,85	2,50
--	------	------	------	------

Sound absorption (EN ISO 11654)

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

Dimensions

Thickness (mm)	100	120	140	160
Width (mm)	600			
Length (mm)	3 500	3 000	2 500	2 200

Technical Data

Thermal Resistance (m ² .K/W)	3,10	3,75	4,35	5,00
--	------	------	------	------

Sound absorption (EN ISO 11654)

Weighted coefficient (α _w)	1
Absorption class	A

Thermal Conductivity (W/m.K): 0,032

Reaction to Fire: A1

Short Term Water Absorption (kg/m²): ≤ 1

Water Vapor Resistance Diffusion Factor (μ): 1

Air Flow Resistivity (kPa.s/m²): ≥ 10

Certificates



MW - EN13162 - T2 - MU1-WS - AFR10 - AW0,85 (40mm)
MW - EN13162 - T2 - MU1-WS - AFR10 - AW1 (≥50 mm)



Applications



ALPHA PLUS Slab

λ32



Dimensions

Thickness (mm)	40	50	60	80
Width (mm)	600			
Length (mm)	1 350			

Technical Data

Thermal Resistance (m ² .K/W)	1,25	1,55	1,85	2,50
--	------	------	------	------

Sound absorption (EN ISO 11654)

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

Dimensions

Thickness (mm)	100	120	140	160
Width (mm)	600			
Length (mm)	1 350			

Technical Data

Thermal Resistance (m ² .K/W)	3,10	3,75	4,35	5,00
--	------	------	------	------

Sound absorption (EN ISO 11654)

Weighted coefcient (α _w)	1			
Absorption class	A			

Thermal Conductivity (W/m.K): **0,032** Reaction to Fire: **A1** Short Term Water Absorption (kg/m²): ≤ 1
 Water Vapor Resistance Diffusion Factor (μ): 1 Air Flow Resistivity (kPa.s/m²): ≥ 10

Certificates



MW - EN13162 - T2 - MU1-WS - AFR10 - AW0,85 (40mm)
 MW - EN13162 - T2 - MU1-WS - AFR10 - AW1 (≥50 mm)



Applications



ALPHA PLUS Slab Kraft Paper

λ32

Dimensions

Thickness (mm)	50	60	80
Width (mm)	600		
Length (mm)	1 350		

Technical Data

Thermal Resistance (m ² .K/W)	1,55	1,85	2,50
--	------	------	------

Dimensions

Thickness (mm)	100	120	NEW! 140
Width (mm)	600		
Length (mm)	1 350		

Technical Data

Thermal Resistance (m ² .K/W)	3,10	3,75	4,35
--	------	------	------

Thermal Conductivity (W/m.K): **0,032** Reaction to Fire: **F** Resistance to Water Vapor Z (m².h.Pa/mg): 3

Certificates



MW-EN13162-T2-Z3



Applications



Volcalis

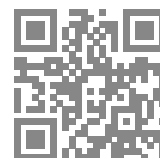
Informations



www.volcalis.pt

**More than a website,
a work tool**

Volcalis makes available online all commercial and technical information and documents, such as product catalogs, technical sheets, certifications, tests and forms of application.



SOLUTION MANAGER

**Technical information,
details and budget**

Instant access to all technical documentation. The online platform provides in detail the most appropriate and tested solutions and systems for the national market.



Now with

BIM Building
Information
Modelling
methodology

www.solucoesparaconstrucao.com



GRUPO PRECERAM

The Preceram Group is a family-owned group made up of several Portuguese companies with huge experience and a broad knowledge of the construction sector and building materials market.

The Preceram Group has facilities in Pombal, Águeda, Oliveira do Bairro and Figueira da Foz, where its manufacturing units produce a wide range of products for the construction business, and also has a complete and versatile distribution fleet that covers the entire national territory.



Solutions

for Construction





Distribution

Volcalis 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.



Volcalis
N 40.50356
W 8.61501



Volcalis

mineral insulation

VOLCALIS - Isolamentos Minerais, S.A.

Zona Industrial de Bustos, Azurveira · 3770-011 Bustos · Portugal

T (+351) 234 751 533 · geral@volcalis.pt

www.volcalis.pt

