Ovens and paint booths
Sandwich panels for surface treatments

Invespan Roc Panel / Modulpan Roc Panel

Kingspan | invespanel

Index

Kinspan | Invespanel	4
I+D+i	5
Paint Booths and Industrial Ovens: Technical Requirements	6
Invespan Roc Panel for Industrial Ovens and Paint Booths	7
Invespan Roc	8
Drying Booths: Technical Description	10
Recommendation of Modulpan Roc for Drying Booths	11
Modulpan Roc	12
Custom Manufacturing: Precision and Efficiency	14
Machining for Openings and Lighting Fixtures: Efficiency from the Start	14
A Competitive Advantage: Customization with High Added Value	14

Kingspan | Invespanel

We supply the widest range of custom sandwich panels on the market for industrial and construction sectors.

At Kingspan | Invespanel, we manufacture high-quality sandwich panels to meet all technical and specific requirements of our clients. We create tailor-made products designed for fast, safe, and clean installation.

Our sandwich panels are supplied to the following industries and business areas:

- Cleanroom construction: wall and ceiling panels
- Surface treatment industry: construction of paint lines/booths and ovens up to 250°C
- Construction sector: façade, roofing, and fire-rated partition panels
- Acoustic solutions and noise reduction
- Agri-food industry: construction of cold storage facilities

Kingspan | Invespanel is the international brand of Teczone Española S.A.U. for sandwich panels with cores of rock wool, PIR, and aluminum honeycomb, and with steel and HPL facings.

I+D+i

As an export-oriented manufacturer, Kingspan | Invespanel offers high-quality sandwich panels produced under strict controls and in compliance with the highest standards.

Our company holds ISO 9001 and ISO 14001 quality and environmental certifications.

The I+D+i department is a key pillar at Kingspan | Invespanel. Our team of engineers works exclusively on the development of new products, as well as the improvement and adaptation of existing ones.

The Kingspan | Invespanel I+D+i department is responsible for:

- Development of new products
- Execution and preparation of testing
- Efficient use of capabilities to enhance production processes and product quality
- Resolution and improvement of any aspects related to quality control and manufacturing processes

Paint Booths and Industrial Ovens

Technical Requirements

Paint booths and industrial ovens operate under conditions where high temperatures and continuous thermal cycles are common. These environments require construction solutions that maintain their performance without significant variation over time.

Typical requirements for these installations include:

- **Thermal insulation suitable for extreme temperatures**, helping limit energy losses and maintain controlled process conditions.
- **Dimensional adaptability**, since paint booths and ovens are often designed according to the specific measurements and features of each project.
- **Dimensional stability under heat**, preventing deformation or physical alteration of the material when exposed to prolonged thermal cycles.
- **Consistent behaviour in demanding environments**, ensuring that the material's properties remain within defined parameters throughout its service life.

These characteristics make it necessary to use systems and panels specifically designed for industrial applications exposed to high temperatures.

Invespan Roc Panel

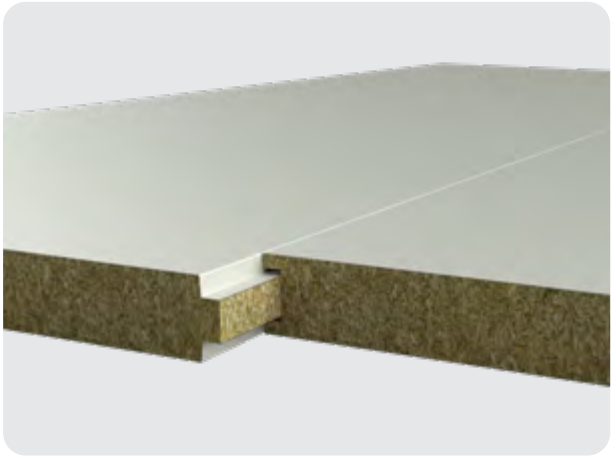
for Industrial Ovens and Paint Booths

Mineral wool is widely used in industrial applications due to its ability to maintain stable performance under significant heat exposure. In **Invespan Roc**, mineral wool contributes to meeting the common technical requirements of ovens and paint booths.

Key technical data:

- High-temperature resistance: the panel withstands continuous temperatures **up to 220 °C and temperature peaks up to 250 °C**, while maintaining its dimensional stability.
- **Dimensional stability** at high temperatures, maintaining stru cture and rigidity within the limits established for industrial use.
- Reliable behaviour under continuous thermal cycles, allowing the panel to retain its characteristics over time.
- Thermal transmittance of 0.26 W/m²·K for the panel with LR LD core and 150 mm thickness, contributing to thermal control and energy efficiency.

In applications such as industrial ovens and paint booths, materials must withstand prolonged exposure to elevated temperatures. Due to its physical properties, rock wool is commonly used in solutions intended for these conditions.

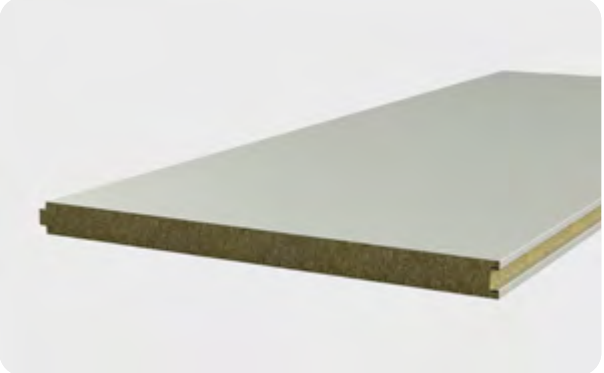


Invespan Roc

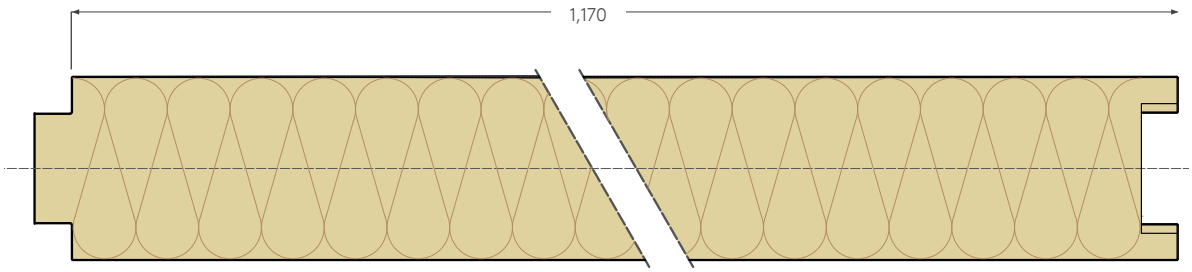
Mineral wool insulation board for ovens and stoves

Description and applications

- Insulating sandwich panel for walls and ceilings with mineral wool core and pre-painted steel faces.
- Highly customisable panel, with LR LD or LR HD core types, sheet thicknesses between 0.5 and 1 mm, various profiling options, etc.
- The panel maintains dimensional stability in environments with high thermal demands, being capable of operating at constant temperatures of up to 220 °C and withstanding peaks of up to 250 °C



Technical features



Useful width		View finishes					
Manufacturing length [1]		0.5 to 6 m					
Insulating core		Mineral Wool					
Density (kg/m³)		LR LD (130 kg/m³) | LR HD (150 kg/m³)					
Panel thickness (mm)		50	60	80	100	120	150
Self weight [2] (kg/m²)	**Core LR LD**	14.57	15.87	18.47	21.07	23.67	27.57
	Core LR HD	15.55	17.05	20.05	23.05	26.05	-
Thermal transmittance[2] (W/m²·K)	**Core LR LD**	0.77	0.64	0.48	0.38	0.32	0.26
	Core LR HD	0.81	0.67	0.50	0.40	0.33	-

(1) Non-standard measurements available upon request.
(2) Considering 0.5 mm thick sheets.

Certifications and applicable regulations

Reaction to fire classification

The range of panels has the reaction to fire classification A2 - s1, d0 according to EN 13501- 1:2018 (Euroclasses).

Implementing regulations raw material

Hot-dip galvanised sheet metal according to EN 10346 and organic coatings according to EN 10169.

Product certificate

CE marked according to EN 14509:2013.

Invespan Roc

Mineral wool insulation board for ovens and stoves

Components

Insulating core

- Density mineral wool 130 kg/m³ (LR LD) or 150 kg/m³ (LR HD).

Outer faces

- Cold-formed sheet from pre-painted, galvanised or stainless steel coil, sheet thicknesses between 0.5 mm and 1 mm. Consult for other thicknesses.

Finishes

Customisable joint

Straight (R)

Male (M)

Female (H)

Available coatings

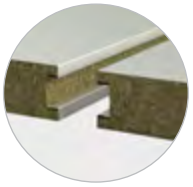
The outer metal faces of the panel are available in various colours and highly durable coatings: PET, PVC, PVDF, HDX and INOX.

Profiling options

Smooth finish

Installation examples

M-H



H-H

R-R

Maximum usable width

Joint combination	M-H	M-M	M-R	H-R	H-H	R-R
Maximum effective width	1170 mm	1140 mm	1170 mm	1190 mm	1190 mm	1200 mm

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Drying Booths

Technical Description

Drying booths are enclosed industrial systems designed to control the temperature and airflow required during drying or curing phases of coating processes. Their purpose is to provide a stable environment that allows the applied coating to reach the specified final properties.

Key technical characteristics include:

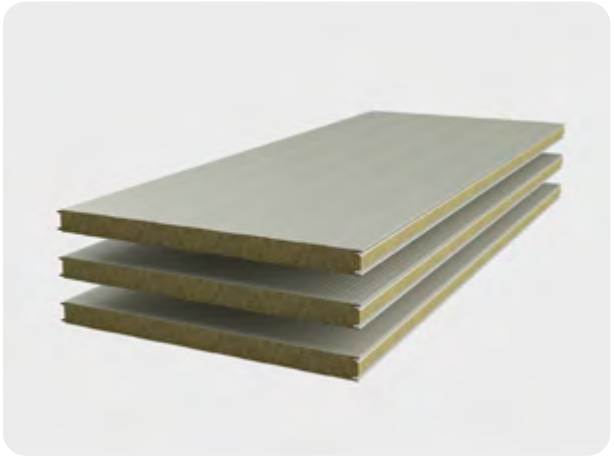
- **Uniform thermal control:** heating systems maintain a consistent temperature throughout the enclosure, adjusted according to the process requirements.
- **Managed airflow:** forced ventilation ensures homogeneous air distribution, minimising turbulence and supporting predictable drying times.
- **Insulated envelope:** the structure is built with panels that offer appropriate thermal insulation and dimensional stability, reducing heat losses and maintaining constant operating conditions during the drying cycle.

These features make drying booths suitable for intermediate drying phases, final curing stages, or flash-off processes depending on the industrial application.

Recommendation of Modulpan Roc
for Drying Booths

Modulpan Roc is suitable for use in drying booths due to its joining system, insulation performance, and structural characteristics:

- **Joint system:**
  - Refrigeration-type tongue-and-groove joint.
  - Deep double interlock for easy installation and a continuous enclosure.
- **Common applications:**
  - Industrial facilities, general construction, agri-food environments, and refrigerated rooms.
  - Suitable for ceilings and internal partitions.
- **Customization options:**
  - Two core types.
  - Multiple steel sheet thicknesses.
  - Various profiling configurations.
- **Thermal performance:**
  - Rigid rock wool core.
  - Thermal transmittance of 0.26 W/m²·K (LR LD core, 150 mm thickness).
  - Appropriate for controlled-temperature enclosures used in drying processes.

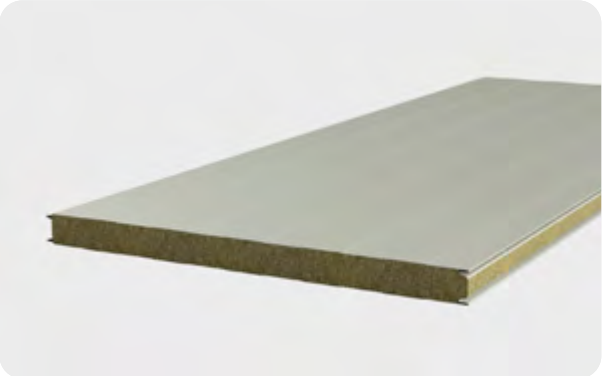


Modulpan Roc

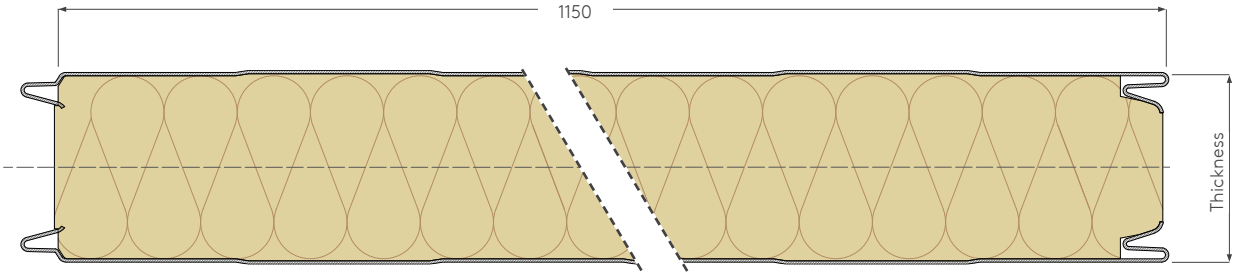
Mineral wool panel

Description and applications

- Sandwich panel for walls and ceilings with mineral wool core and pre-painted steel faces.
- Highly customisable panel, with two types of core ((LR LD o LR HD)), sheet thicknesses between 0.5 and 0.8 mm, various profiling options, etc.



Technical features



Useful width		1,150 mm					
Insulating core		Mineral Wool					
Core density		LR LD: 130 kg/m³ | LR HD: 150 kg/m³					
Panel thickness (mm)		50	60	80	100	120	150
Self weight [1] (kg/m²)	**LR LD Core**	15.99	16.29	18.89	21.49	24.09	27.99
	LR HD Core	15.95	17.45	20.45	23.45	26.45	-
Thermal transmittance[1] (W/m²·K)	**LR LD Core**	0.77	0.63	0.47	0.38	0.32	0.26
	LR HD Core	0.80	0.66	0.50	0.40	0.33	-

(1) Considering plates of thickness 0,5 mm.

Certifications and applicable regulations

Implementing regulations raw material

Hot-dip galvanised steel sheet according to EN 10346 and organic coatings according to EN 10169.

CE marking

CE marked in accordance with EN 14509:2013.

Modulpan Roc

Mineral wool panel

Panel components

Insulating core

- Rock wool of density 130 kg/m³ (LR LD) or 150 kg/m³ (LR HD).

External faces

- Cold-formed sheet from pre-painted, galvanised or stainless steel coil, sheet thicknesses between 0.5 mm and 0.8 mm.

Tongue and groove joint

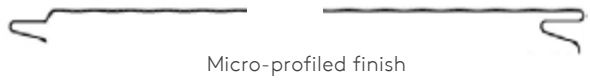
- Double tongue and groove joint with high depth and easy assembly.

Finishes

Profiling options

Smooth finish

Profiled finish (standard)



Micro-profiled finish

Available coatings

The outer steel faces of the panel are available in various colours and highly durable coatings: PET, PVC, PVDF, HDX.

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Custom Manufacturing

Precision and Efficiency

One of the keys to success in any installation is the exact adjustment to the client's technical specifications. At Kingspan | Invespanel, we manufacture panels according to the detailed breakdown of the project (dimensions, thicknesses, finishes), which allows us to:

- Guarantee a significant reduction in on-site installation time
- Minimize errors or subsequent adjustments
- Ensure smooth assembly with full compatibility

Machining for Openings and Lighting Fixtures

Precision and Efficiency

The ability to customize panels with factory-made machining for openings greatly simplifies the installation of technical elements on site. These operations are carried out in advance at the factory, reducing time and costs on site and enabling a much faster and more precise installation of components such as:

- Lighting
- Ventilation
- Sensors
- Customer-specific systems

A Competitive Advantage

Customization with High Added Value

What truly sets us apart is not only the quality of our products, but also our technical adaptability to each project, with solutions designed in detail.

This flexibility enables us to collaborate with companies that require **industrial ovens** or **paint booths** with high standards of efficiency, precision, and innovation, particularly in sectors such as the automotive and pharmaceutical industries.

Notes

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