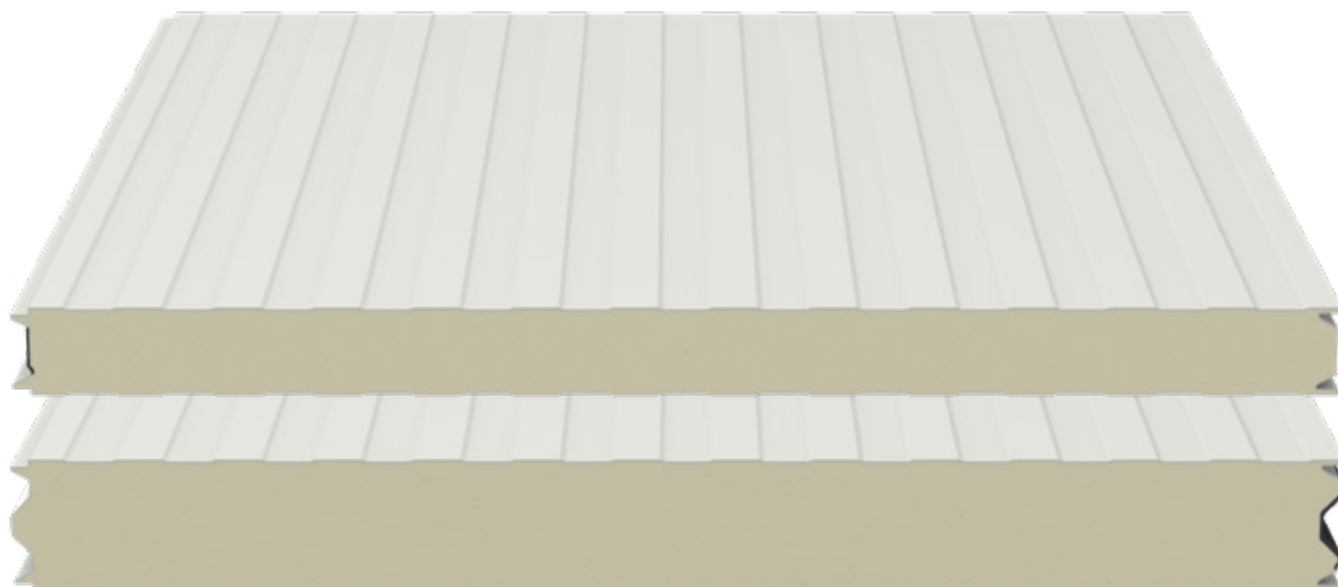


Isofrozen



Product Description

- Sandwich panel for external and internal walls of temperature-controlled rooms and cold rooms
- Double metal facing in pre-painted sheet metal
- Configurable aesthetic Surface finishes
- Polyurethane foam insulation

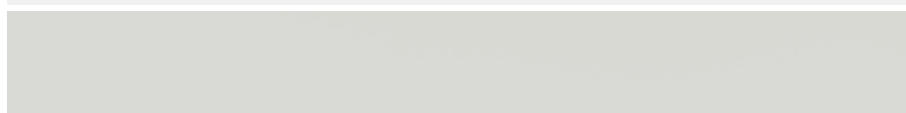


Surface finishes

Corrugated
(PLISSÉ / PLISSÉ D)



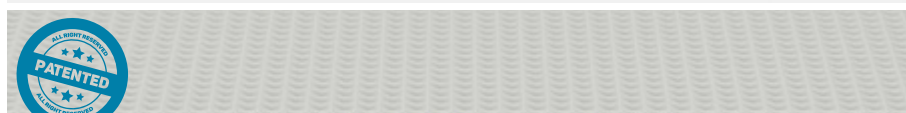
FLAT
to be evaluated based on the
product configuration in the
project



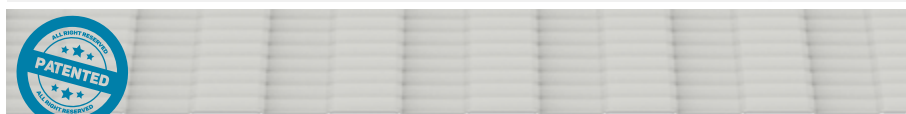
Lined
(BOX)



DIAMOND



EMERALD



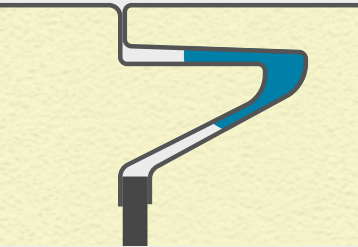
Graphic Guidelines

The surface finishes images shown in this catalog are rendered for illustrative purposes only and may not accurately reflect the actual proportions and characteristics of the product.

Available Sealing Types

Their effectiveness directly impacts:

- Airtightness
- Thermal Transmittance
- Energy efficiency
- Humidity control



Standard Joint – Ready to Use

Includes factory-installed PU/PE gasket.

Limited airtightness for cold environments.

Air permeability up to 1.60 m³/mh at 1000 Pa (positive pressure).

Off-Site Gasket – Ready to Use

Additional gaskets pre-installed at the factory.

No further on-site work required.

Excellent airtightness: only 0.53 m³/mh at 1000 Pa (positive pressure).

Bituminous Tape – On Site

Two tapes installed on site inside the female joint channels.

Good barrier against air and moisture.

Air permeability up to 1.32 m³/mh at 1000 Pa (positive pressure).

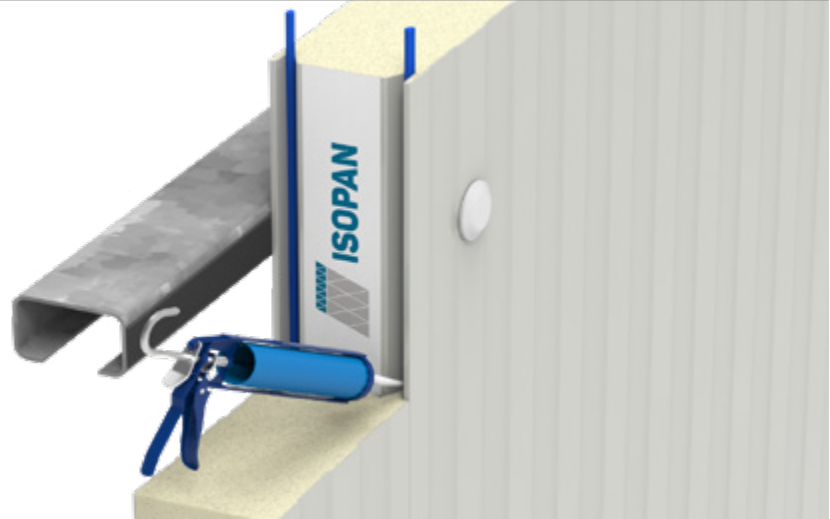
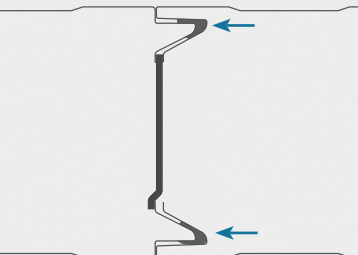
Thixotropic Sealant – On Site

Applied on site using a dispensing gun.

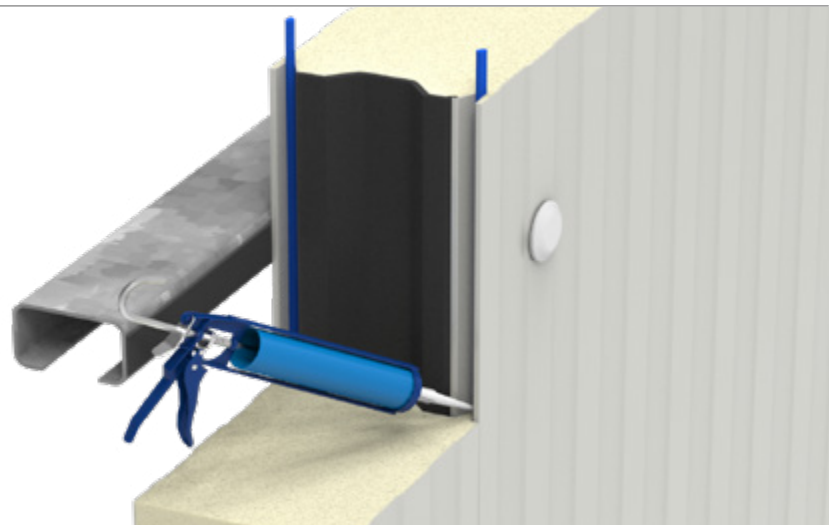
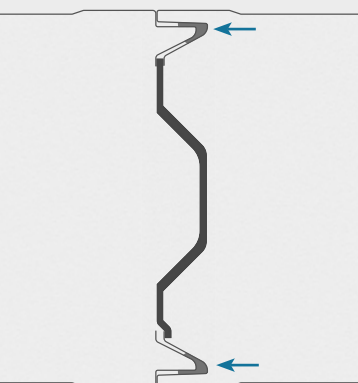
Ideal for very low temperatures.

Excellent airtightness: only 0.56 m³/mh at 1000 Pa (positive pressure).

ISOFROZEN



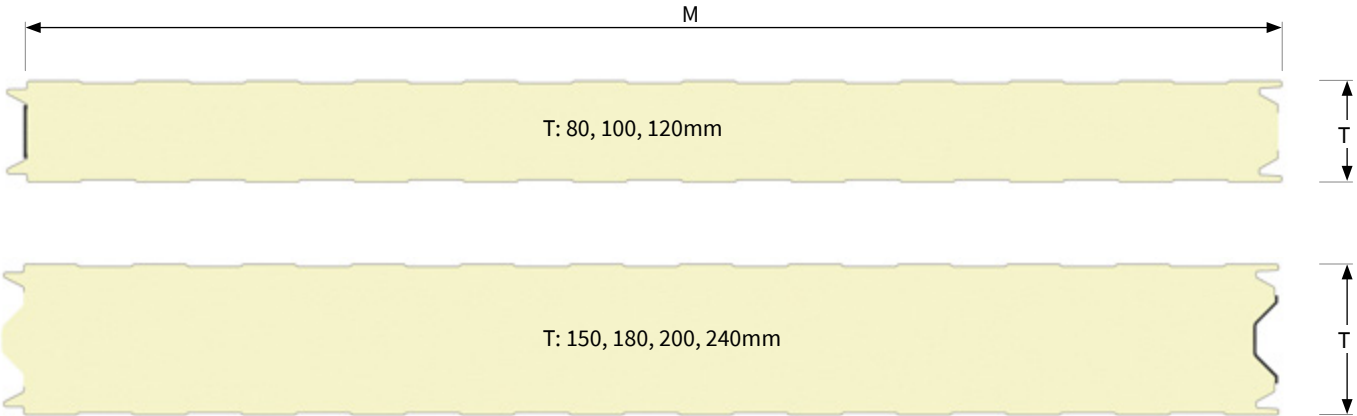
ISOFROZEN HT



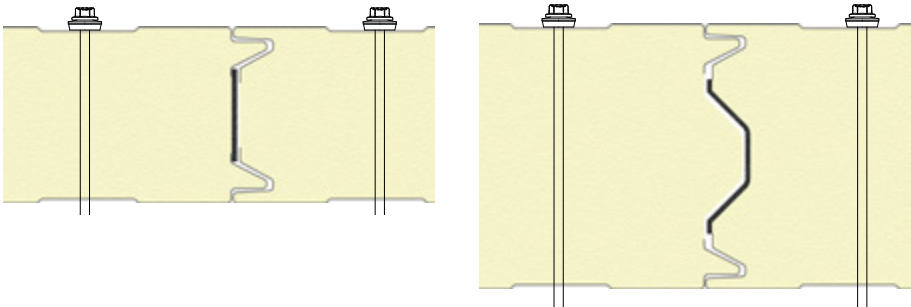
Upgradable joint

Please refer to the dedicated Cold Solutions catalogue for further information.

Isofrozen
 Isopan SpA - Trevenzuolo (VR) - Patrica (FR) - Italy
 Isopan Iberica - Spain | Isopan Est - Romania



Detail of modular interlocking



Useful width - “M”

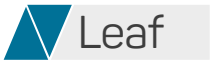
1000 mm
 1120 mm
 1150 mm

Available length

On request

Insulation

Polyurethane foam (PU)
 Polyisocyanurate foam (PIR)
 Nominal density 40 kg/m³



Available with LEAF insulation

Metal sheets

External metal sheet: Pre-painted sheet
 Internal metal sheet: Pre-painted sheet

Fire Performance

Any fire performance must be specifically requested when ordering. For more technical information, please contact Isopan.

Reaction to fire (EN 13501-1)	Fire resistance (EN 13501-2)
Up to B-s1,d0 (PIR, LEAF)	EI 60* - PIR 200mm EI 30* - PIR 100mm
*performance with non-standard installation modes	

FM Approved

On request, available with FM Approved certification



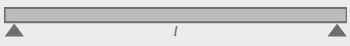
BREEAM®



CE

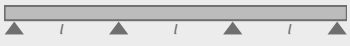
Capacity tables

Steel sheets
 Sheet thickness
 0,5 mm - External
 0,5 mm - Internal
 Support width 120mm

UNIFORMLY DISTRIBUTED LOAD [kg/m ²]	 NOMINAL SHEET THICKNESS [mm]					
	80	100	120	150	180	≥ 200
	Maximum Span "l" [cm]					
50	530	630	700	850	890	920
60	490	580	660	750	780	900
80	430	500	580	680	720	840
100	380	450	510	610	700	760
120	340	410	470	560	640	690
140	290	340	430	510	590	640
160	270	320	400	480	550	600
180	270	320	370	440	510	560
200	250	300	350	420	480	520

Capacity tables

Steel sheets
 Sheet thickness
 0,5 mm - External
 0,5 mm - Internal
 Support width 120mm

UNIFORMLY DISTRIBUTED LOAD [kg/m ²]	 NOMINAL SHEET THICKNESS [mm]					
	80	100	120	150	180	≥ 200
	Maximum Span "l" [cm]					
50	630	740	840	900	930	960
60	570	650	770	870	900	920
80	480	580	670	790	830	850
100	420	510	640	680	710	730
120	380	460	590	590	620	630
140	340	410	530	530	550	560
160	310	380	470	480	490	500
180	290	350	430	435	440	445
200	270	320	400	400	405	410

Technical specifications

Available thickness 'T'

Thermal Transmittance 'U'
 according to EN 14509 - A.10.
 The weight considers panels with
 steel sheets, nominal thickness
 indicated in the table.

Thermal Transmittance LEAF

T [mm]	Thermal Transmittance - U				Weight - [Kg/m ²]	
	[W/m ² K]		[kcal/m ² h °C]		0,5mm	0,6mm
80	0,27	0,31	0,23	0,26	11,4	13,1
100	0,22	0,23	0,19	0,19	12,2	13,9
120	0,18	0,15	0,15	0,13	13,0	14,7
150	0,15	0,12	0,13	0,10	14,2	15,9
180	0,12	0,10	0,10	0,08	15,6	17,1
200	0,11	0,09	0,09	0,07	16,2	17,9
240	0,09	0,08	0,08	0,06	18,2	19,7

Instructions for use and dimensional tolerances

consult the Technical Manual, General Sales Conditions and Annexes available on the website.