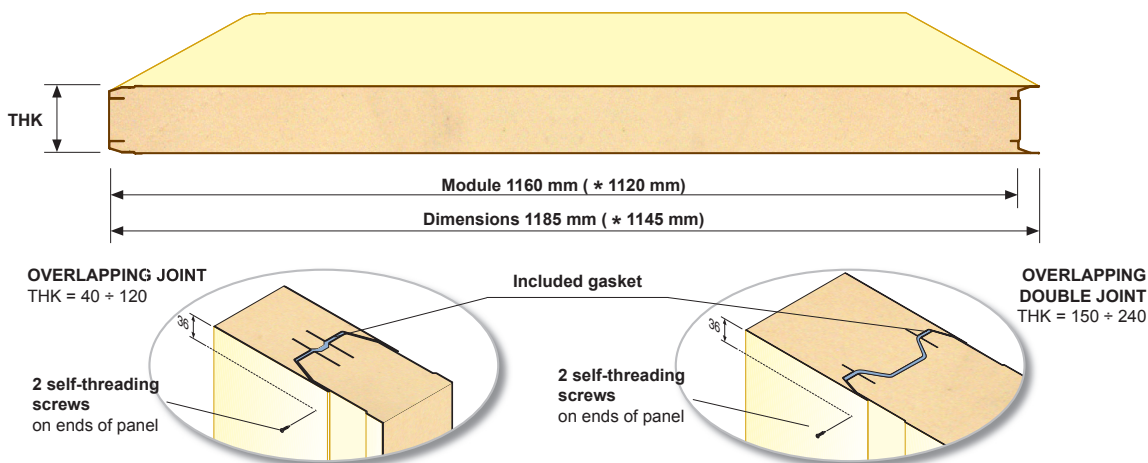



Sandwich panels with tongue-and-groove joint for the execution of cold rooms at positive and negative temperature. Designed for high performances of thermal insulation, mechanical strength, aesthetic value, hygiene and rapid assembling. *Reduced module (*GS112L) for loading in containers.



Module	Usable width = 1160 - *1120.
Dimensions	Minimum length: 2000 mm, maximum length: 14000 mm.
Aspect	Standard: smooth on two faces.
Insulation	Standard rigid polyurethane foam (RPU), Density 41 kg/m³ ± 10%, initial thermal conductivity λ 0.023 W/m K, no CFC.
Reaction to fire	Euroclass D s3 d0 EN 13501-1 for thicknesses 40 ÷ 120 mm. Euroclass C s3 d0 EN 13501-1 for thicknesses 150 ÷ 240 mm.
Overlapping joint	The shape of the tongue-and-groove joint enables an overlapping of the lip of the groove side over the tongue side which eliminates any fissures and ensures an accurate sanitary finish. The tongue-and-groove joint is single up to thickness 120, double from 150 to 240 with interposed gasket included in the groove side (excluded thickness 40).
Standard coating	PR: white pre-painted hot galvanized steel sheet, colour Ral 9010, Polyester varnish 25 µ, Colour diff. ΔE < 1. ZN: Hot galvanized metal sheet with Senzmir system. PL: Hot galvanized metal sheet plasticized with PVC 110 µ white film colour Ral 9010 with protective film. PT: Heat galvanized sheet metal, pre-coated and co-laminated with PET film, for a total coating of 45 µ, in RAL 9010 white. IX: AISI 304 2B stainless steel with protective film. PX: AISI 304 stainless steel plasticized with PVC 110 µ white film colour Ral 9010 with protective film. VX: AISI 304 stainless steel, white pre-painted sheet, colour Ral 9010, Polyester varnish 25 µ, Colour diff. ΔE < 1.
Optional coatings	
Tolerances	Thickness and flatness of metal sheet according to UNI - EN -10143. Density of insulation ± 10% - Thickness of panel ± 2% - Non-adherence of RPU to metal sheet max 0,5%. Steel waviness and flatness of the panel 0,6 ÷ 1,5 mm. Panel length: L ≤ 3000 ± 5mm L > 3000 ± 5mm. Panel width ± 2 mm. Bending on panels length: 2 mm. per metre, max. 10 mm.


Admissible loads calculated in compliance with EN 14509:2007 referred to metal steel sheets thickness: 0,45 + 0,45

Thk. (Thickness) mm	Weight kg/m²	*H-max m	Initial heat transmission coefficient U = W/m² K	ΔT Temperature range °C	**Admissible loads Kg/m² net of the panels' own weight																	
					Panel length in metres																	
					3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10	10,5	11	11,5
40	8,5	4	0.576	Te 30 °C - Ti 0 °C	60	40																
60	9,3	5	0.384		100	80	60	40														
80	10,1	6	0.288		160	120	90	70	50													
100	10,9	7	0.230			180	135	100	80	65	55	45										
120	11,7	8	0.192				195	160	125	105	85	70	60	45								
150	12,9	9	0.154	Te 30 °C - Ti -20 °C					175	145	120	100	85	70	50							
180	14,1	10	0.127							185	155	130	110	95	80	65	50					
200	14,9	11	0.115								180	150	130	110	95	80	70	60	50			
												195	170	145	125	105	95	80	70			
240	16,5	12	0.096															60	50			

* Admissible height in inside environments, without current intermediary fixing.

** With ΔT 30 °C (chiller cold rooms), take into account an overload due to residual depression of 10 Kg/m². With ΔT 50 °C (Freezer col rooms), take into account an overload due to residual depression of 30 Kg/m².

Admissible loads calculated in compliance with EN 14509:2007 referred to metal steel sheets thickness: 0,5 + 0,5

Thk. (Thickness) mm	Weight kg/m²	*H-max m	Initial heat transmission coefficient U = W/m² K	ΔT Temperature range °C	**Admissible loads Kg/m² net of the panels' own weight																	
					Panel length in metres																	
					3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10	10,5	11	11,5
40	9,7	4,5	0.576	Te 30 °C - Ti 0 °C	70	50																
60	10,5	5,5	0.384		125	95	70	50														
80	11.3	6,6	0.288		185	140	110	85	65	50												
100	12,1	7,5	0.230			190	150	120	95	75	60	50										
120	12,9	8,5	0.192				215	170	140	115	95	80	65	55								
150	14,1	9,5	0.154	Te 30 °C - Ti -20 °C					190	160	130	110	95	80	65	55						
180	15,3	10,5	0.127							200	170	145	125	105	90	75	65	55				
200	16,1	11,5	0.115								195	170	145	125	105	90	80	70	60	50		
240	17.7	12	0.096									215	185	160	140	120	105	90	80	70	60	50

* Admissible height in inside environments, without current intermediary fixing.

** With ΔT 30 °C (chiller cold rooms), take into account an overload due to residual depression of 10 Kg/m². With ΔT 50 °C (Freezer col rooms), take into account an overload due to residual depression of 30 Kg/m².