



WALL
COLD STORE



Low temperature - micro-ribbed

FRIMET® BT-LM is a range of self-supporting metal panels with state-of-the-art PUR with a labyrinth joint for the construction of negative temperature cold storage warehouses and rooms.

The FRIMET® BT-LM range has been designed to provide a complete solution to the requirements of the cold storage industry, providing the following benefits:

HIGH THERMAL RESISTANCE, MECHANICAL RESISTANCE, DIMENSIONAL STABILITY, NON-WATER ABSORBENT, LIGHTWEIGHT, AESTHETICALLY PLEASING APPEARANCE, DURABILITY, EASE AND SPEED OF INSTALLATION.

The panels of the FRIMET® BT-LM range are available with self expanding seal joints, cover width 1130 mm, in 120 - 150 - 180 - 200 mm thicknesses.



Materials specifications

Panel sheets specifications

• Polyester primer	5 micron
• Non-toxic food-graded STANDARD polyester finish paint, RAL 9010 color	20 micron
• Back-coat	5 micron
• Resistance to saline mist	≥ 500 h (ECCA T8)
• Resistance to moisture	≥ 1000 h (ASTM D2247)

Panels foam specifications

• Average density	38 kg/m³
• Thermal conductivity	22 mW/mK
• Temperature range	-40 +80 °C
• Free from CFC	

Table of safe spans

Maximum spans with $f \leq l/200$

Loads: panel weight + 20 daN/m² (due to negative pressure inside building)
panel weight + 30 daN/m² (due to negative pressure inside building)

steel - steel

S mm	K		Panel weight kg/m²			P p.p. + 20					
	Kcal m²h °C	Watt m² °C	0,45+0,45	0,5 + 0,5	0,6 + 0,6	p.p. + 20		p.p. + 30			
						0,45+0,45	0,5+0,5	0,6+0,6	0,45+0,45	0,5+0,5	0,6+0,6
120	0,15	0,18	12,23	13,05	14,75	l = 7,35	7,80	8,20	6,70	7,10	7,50
150	0,12	0,14	13,03	13,85	15,49	l = 8,35	9,20	9,60	7,50	8,40	8,80
180	0,10	0,12	14,18	15,00	16,63	l = 9,15	10,40	11,00	8,20	9,50	10,00
200	0,09	0,11	14,94	15,76	17,39	l = 9,65	11,20	11,90	8,65	10,20	10,80

