

WALL

COLD STORE



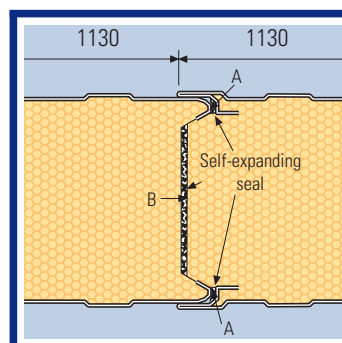
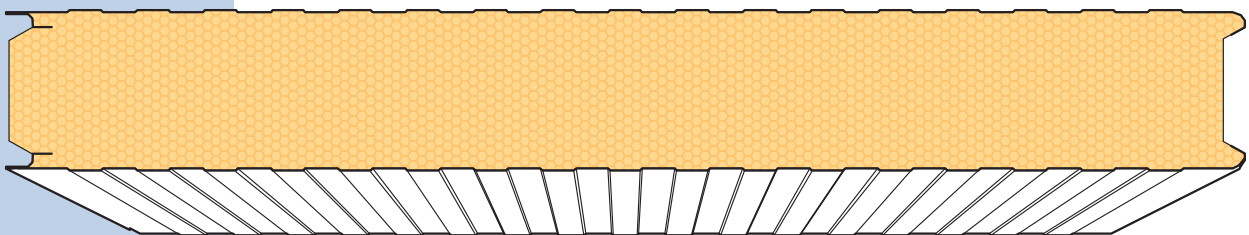
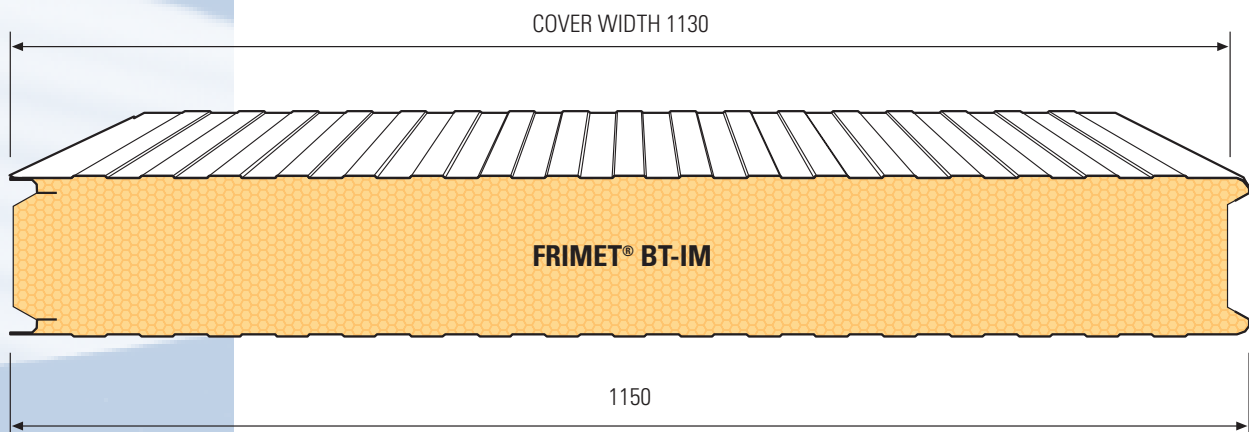
## Low temperature - micro-ribbed

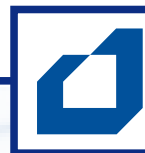
FRIMET® BT-IM is a range of self-supporting metal panels with state-of-the-art PUR with a labyrinth joint for the construction of negative temperature cold storage warehouses and rooms.

The FRIMET® BT-IM 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-IM 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/m <sup>3</sup>
• 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/m<sup>2</sup> (due to negative pressure inside building)

panel weight + 30 daN/m<sup>2</sup> (due to negative pressure inside building)

#### steel - steel

S mm	K		Panel weight kg/m <sup>2</sup>		p = (daN/m <sup>2</sup> )				
	Kcal m <sup>2</sup> h °C	Watt m <sup>2</sup> °C	0.5+0.5	0.6+0.6		0.5+0.5	0.6+0.6	0.5+0.5	0.6+0.6
120	0.15	0.18	13.05	14.75	l =	7.80	8.20	7.10	7.50
150	0.12	0.14	13.85	15.49	l =	9.20	9.60	8.40	8.80
180	0.10	0.12	15.00	16.63	l =	10.40	11.00	9.50	10.00
200	0.09	0.11	15.76	17.39	l =	11.20	11.90	10.20	10.80

