

# Frimet® TP-SM

Micro-ribbed panel system with dry joint

PRODUCED IN:  
ITALY  
GERMANY  
SPAIN



WALL  
COLD STORE



## Positive dry temperature micro-ribbed

FRIMET® TP-SM is a range of self-supporting metal panels with state-of-the-art PUR with a micro-ribbed male-female joint for the construction of positive temperature cold storage warehouses and rooms. The FRIMET® TP-SM 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® TP-SM range are available with self-expanding seal joints, cover width 1130 mm, in 60 - 80 - 100 - 120 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
60	0,29	0,34	9,95	10,77	12,41	l = 4,50	4,80	5,00	4,05	4,40	4,60
80	0,22	0,26	10,71	11,53	13,17	l = 5,25	5,80	6,10	4,70	5,30	5,55
100	0,18	0,21	11,47	12,29	13,99	l = 5,90	6,80	7,20	5,25	6,20	6,55
120	0,15	0,18	12,23	13,05	14,75	l = 7,35	7,80	8,20	6,70	7,10	7,50

