



# ISO THERM COLDSTORE PANELS



**ISO THERM** manufactures cold rooms and cold stores of any specified capacity, tailored to suit the client's specific cold storage conditions. We manufacture insulated wall, ceiling and floor panels. **ISTM** caters to customized cold stores for pharmaceutical, food, logistics and distribution industries requiring specific temperature and humidity levels to maintain their products in optimal condition.

**ISTM** Cold Store Panels are composite prefabricated panels, consisting of two layers of metal facers and PUR/PIR insulation core between the facers.

The panels are versatile product, allowing for use in :

- **Walls**
- **Ceilings**
- **Partitions**

**Mechanical Characteristic of the Polyisocyanurate Foam**

- Overall Density 42 ±2 Kg/m<sup>3</sup> (45Kg/m<sup>3</sup> upon request)
- Tensile Strength : 100 Kpa
- Compression Resistance - 100 Kpa
- Fire Property : Class 1 or A Best class with less Fire spread and smoke development
- **K Value (Thermal conductivity of PIR) -0.022 - 0.026 W/mk**

**Water Absorption of the foam - 1 % of Volume**

**Fire Classification as per ASTM E 84 : Class 1 or A with less Fire spread and smoke development**

Our PIR foam is approved by **DCL (Dubai central laboratory)** as per EN : 13165 : 2008

## DIMENSION, WEIGHT & THERMAL PERFORMANCE

INSULATION CORE	THERMAL PERFORMANCE	PANEL THICKNESS (mm)					
		50	80	100	120	150	200
<b>PUR</b>	U(Wm <sup>2</sup> K)	0.418	0.288	0.230	0.192	0.153	0.115
<b>PIR</b>	U(Wm <sup>2</sup> K)	0.382	0.263	0.210	0.175	0.140	0.105
Weight/kg/m <sup>2</sup>		10.85	11.86	12.67	13.48	14.69	16.71

Based on 0.50mm thick GI/GI facings

