

# **COLD** **STORAGE** **EQUIPMENTS**

**SANDWICH  
PANELS  
ISOLATED  
DOORS  
COOLING  
UNITS  
PANEL  
MOUNTING  
ACCESSORIES  
HYGIENIC  
ACCESSORIES**

**ESADPANEL**  
INDUSTRIAL COOLING SYSTEMS



# INDUSTRIAL COOLING SYSTEMS



**ESADPANEL**  
INDUSTRIAL COOLING SYSTEMS

## Our Inspiration Is a Healthy Life.

The awareness that the greatest wealth is our health reminds us every moment that our business is not just an industrial business. This is our greatest source of motivation, pride and gratitude.



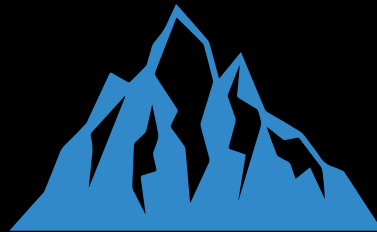
## Our Mission.

In the process of reaching our common goals, we listen to and understand the goals of our customers. We design and adopt the most suitable solutions for their needs and deliver our labor with peace of mind.



## Our Dream.

We fully believe that serious, fair and beneficial trade can be made in the industrial field in the new world order. We want to show the world how a good job can be done, but not by differentiation. As a human being. Being human.



## A Person A Country

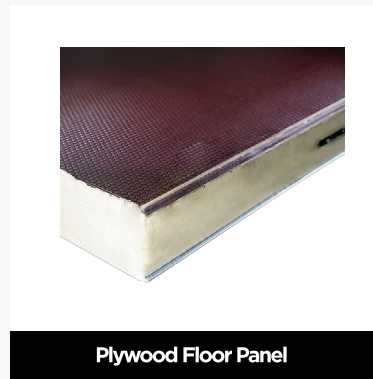
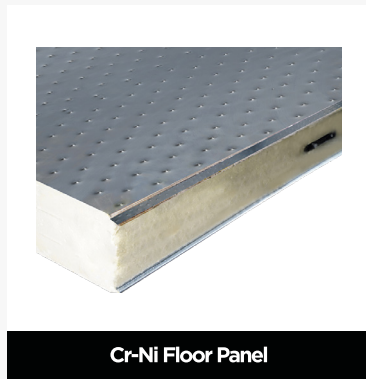
We believe that everything ends in man. So in the light of universal values  
We equate an offer given to a person with an offer given to a country.



# COLD STORAGE PANELS

## LOCKED SYSTEM SANDWICH PANELS

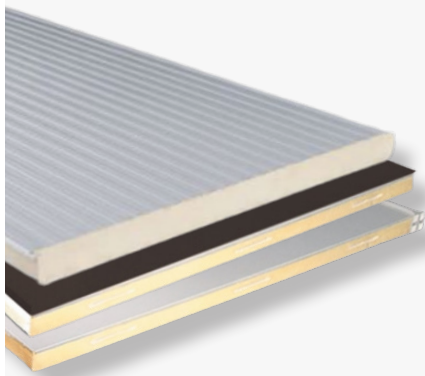
Locked system sandwich panels are used on the walls and ceilings of cold stores to prevent heat losses. Floor sandwich panels are used as chrome or plywood on the floors of cold storage rooms.



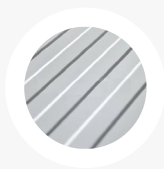
## OUR PRODUCTS

Flat  
Trapezed  
Polyester (Poly)

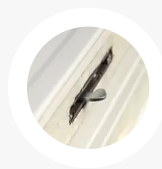
Pvc  
Cr-Ni  
Plywood



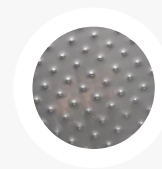
## PANEL SURFACES



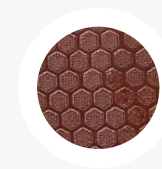
Ribbed Surface



Camlock



Cr-Ni Floor



Plywood Floor

Please contact us for whole of our product portfolio.

## ISOLATED DOORS

These are the doors specially designed and produced by our engineers to keep the heat balance of cold stores in optimum balance and to preserve the air.



Hinged



Sliding



Service



Single Wing Bar



Double Wing Bar



Monorail

## OUR PRODUCTS

Hinged (Standard)  
Sliding  
Monorail

Single Wing Bar (Flip-Flap)  
Double Wing Bar (Flip-Flap)  
Service (Emergency)

# COLD STORAGE UNITS

## INDUSTRIAL COOLING SYSTEMS

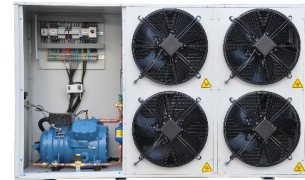
The greatest power behind the cold; refrigeration units. Our devices and units that appeal to different rooms for various needs are produced by the engineers of cooling and in European standards and origins.



Split Type Hermetic



Split Type Scroll



Split Type Semi-Hermetic



Industrial Type



Dual Stage Shock



Central Systems

## OUR PRODUCTS

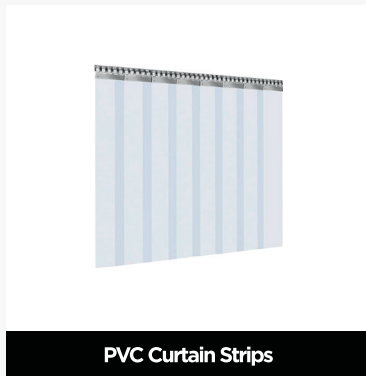
Split Type Hermetic  
Split Type Scroll  
Split Type Semi-Hermetic

Industrial Type  
Dual Stage Shock  
Central Systems

# COLD STORAGE ACCESSORIES

## MOUNTING ACCESSORIES

Indispensable parts of the insulation and aesthetics of cold storages. Thanks to our accessories made of various materials, our cold stores reach their strongest form.



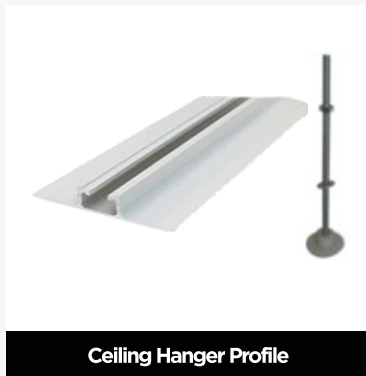
PVC Curtain Strips



U Profile



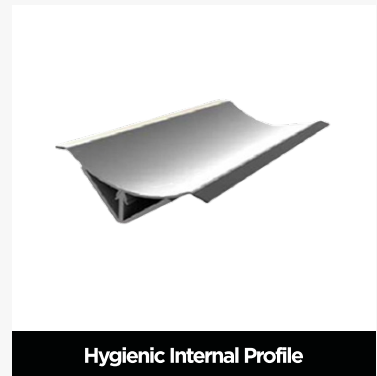
V-L Profile



Ceiling Hanger Profile



Egg Corner Connector



Hygienic Internal Profile

## OUR PRODUCTS

Hygienic  
Floor  
Internal/External

Poly  
PVC  
Cr-Ni

Please contact us for whole of our product portfolio.







# **COLD STORAGE PANEL**

THICKNESS: 20 <sup>CM</sup>  
SHEET: 0,50 mm 0,50 mm  
DENSITY: 42 ( $\pm 2$ ) <sup>kg/m<sup>3</sup></sup>  
USAGE CONDITIONS: -40 C°

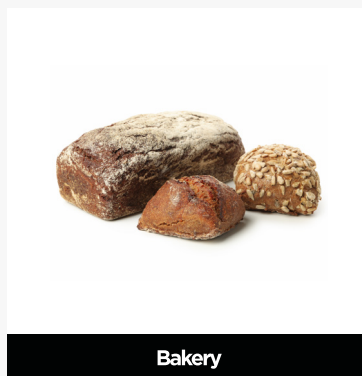
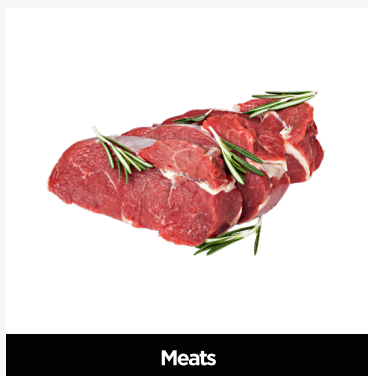
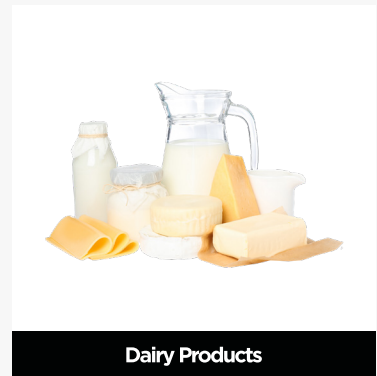
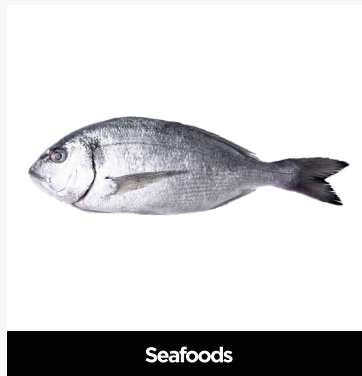
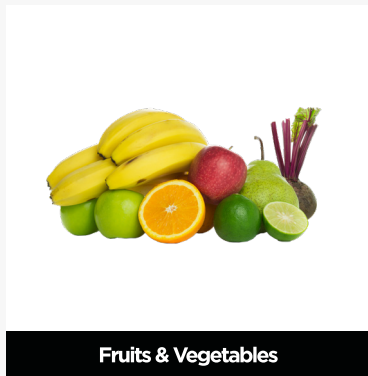
# COLD STORAGE TYPES

## COLD ROOM VARIANTS

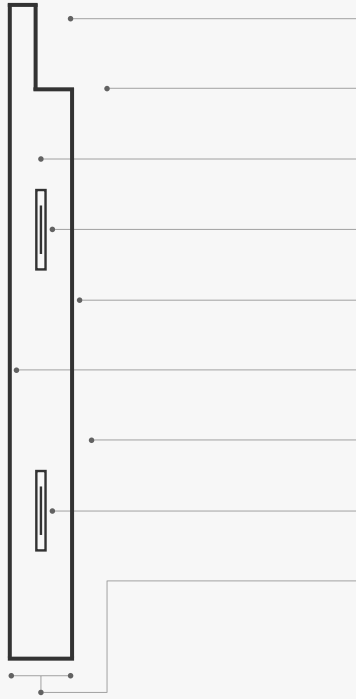
All food products have different cold storage techniques. It is necessary to establish the right warehouses according to the product to be stored in order to keep the products as fresh as the first day, to preserve them for a long time, to experience minimum product loss and to consume minimum energy.

Engineers develop and produce special cold storage projects for each of the foods according to the expectations of the user, the geographical location of the warehouse and the characteristics of the products to be stored.

## SOME EXAMPLES FOR COLD ROOMS



# SANDWICH PANEL DETAILS



- Notch
- Ceiling Zone
- Polyurethane
- Camlock Detail
- Internal Sheet
- External Sheet
- Surface Cover Film
- Camlock Detail
- Thickness
- Width: 1,11 cm

## COLD ROOM PANEL

Cold room panels are different than other standard sandwich panels by their density of polyurethane, thickness of sheets and male/female camlock details.

**42<sup>(±2)</sup>**  
DENSITY OF PUR

**0.50mm**  
THICKNESS OF SHEETS

**MAX ISOLATION**  
THAT BEST SUITS TO COVER YOUR GOODS HEALTHY

\* These technical details are depends on each quotation and they're basisses of the best quality of cold room panel. Ask for details to your consultant.

## HEAT TRANSFER SHEET

Each panel has different thickness/thermal resistance, heat permeability coefficient and weight.

THICKNESS MM	THERMAL RESISTANCE	HEAT TRANSFER COEFFICIENT	WEIGHT KG/ m2
Core Thickness (t) Width (w) = 1110 mm	R (m <sup>2</sup> K/W)	K Value W/m <sup>2</sup> K	(0,5±0,5)
t=60 mm	2,77	0,32	10,38
t=80 mm	3,68	0,27	11,21
t=100 mm	4,61	0.22	12,04
t=120 mm	5,52	0.18	12,87
t=150 mm	6,88	0.15	14,11
t=200 mm	9,16	0,11	16,19

\* These technical details are depends on each quotation and they're basisses of the best quality "42kg/m<sup>3</sup> - 0.50/0.50 sheets" of cold room panel. Details of the panels may differ according to the conditions of the production machines and the current weather conditions.

Please contact us for whole of our product portfolio.

# COLD STORAGE MATERIAL SHEETS

## PANEL DATA SHEET

Each panels can be produce in different techinal details. Here is some basics of panels;

TYPES	COLOURS	THICKNESS	SHEET THICKNESS INT/EXT	DENSITY	FIREPROOF	CERTIFI-CATES	CAMLOCK	STAINLESS	SURFACE COVER FILM
PPGI POLY, SS304, PVC, PLYWOOD	RAL9002 & OTHERS	60, 80, 100, 120, 150, 200 MM	0,40, 0,43, 0,50, 0,70 MM	38/40/42 (±2) kg/m <sup>3</sup>	Can be producable B2 D-S2,d0	ISO CE	✓ / X	✓	✓

## DOOR DATA SHEET

Each doors can be produce in different techinal details. Here is some basics of doors;

TYPES	COLOURS	FRAME THICKNESS	SHEET THICKNESS	INSIDE DENSITY	FIREPROOF	CERTIFI-CATES	SIZES	HEATER	SURFACE COVER FILM
HINGED, SLIDING, MON-ORAIL, WING, SERVICE, ATMOSPHERE, PANEL MOUNTED	RAL9002 & OTHERS	6,8, 9,2, 11,5 CM	0,40, 0,43, 0,50 MM	40/42 (±2) kg/m <sup>3</sup>	Can be producable B2 D-S2,d0	ISO CE	80x180 ... 300x350	✓ / X	✓

## ACCESSORY DATA SHEET

Each accessories can be produce in different techinal details. Here is some basics of profiles;

TYPES	COLOURS	VARIANTS	SHEET THICKNESS INT/EXT	CERTIFI-CATES	STAINLESS	SURFACE COVER FILM
PPGI POLY, SS304, PVC (HYGIENIC)	RAL9002 & OTHERS	INTERNAL V, EXTERNAL L, FLOOR U	0,40, 0,43, 0,50 MM	ISO CE	✓	✓

## COOLING DEVICE DATA SHEET

Each units can be produce in different techinal details. Here is some basics of units;

TYPES	COMPRES-SORS	ORIGINS	EVAP & CON-DANSERS	FANS	ELECTRIC	CONTROL PANELS	CERTIFI-CATES
SPLIT TYPE HERMETIC, SEMI-HERMET-IC, SCROLL, INDUSTRIAL, DOUBLE STAGE	TECUMSEH, DORIN, BITZER, MANEU-ROP, EMBRA-CO, BOCK, COPELAND, DANFOSS	EUROPE & U.S.A.	EU. - U.S. BASED MATERIAL PARTS	EBM, ROSEN-BERG, ZIEHL ABEGG	SCH-NEIDER, SIEMENS	DIXELL / CARELL / ELIWELL	ISO CE

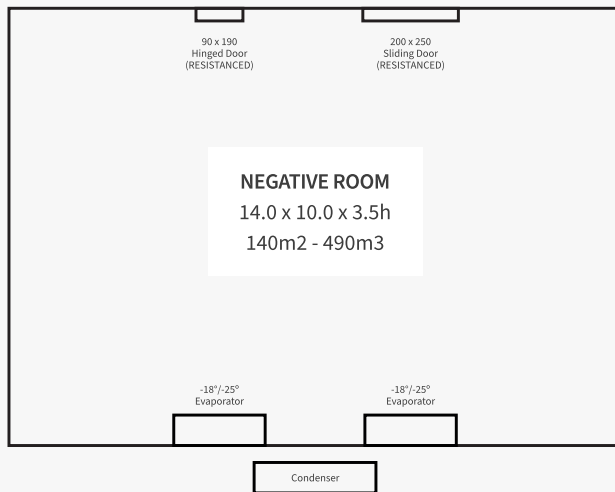
\* All technical details mentioned above are the basis of general lines. The technical details of the products may vary depending on the works. Can differ. Esad Panel reserves the rights to use the contents.

# COLD ROOM DETAILS

## VERTICAL DRAWING SAMPLE OF A COLD ROOM



\* Autocad drawing files has great importance in projects in order to reach exact solutions. You can share the drawings of your room dimensions with us by contacting the engineer of your project.



## INQUIRY OF A ROOM

Consultants of you need to know exact informations about the room some basics as; dimensions, goods, goal temperature and seeing the drawing if exists.



**DIMENSIONS**



**PRODUCTS**

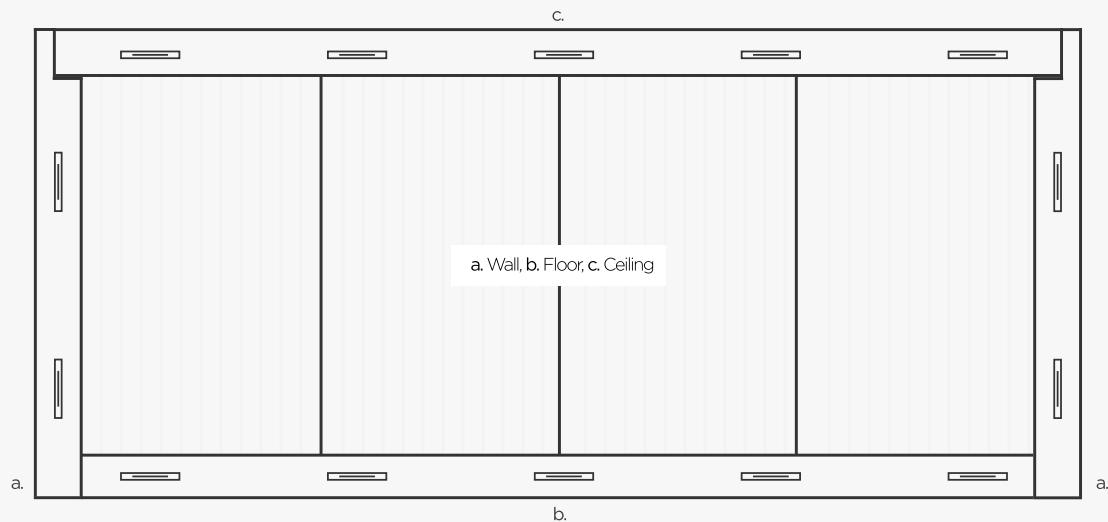


**TEMPERATURE**

## HORIZONTAL DRAWING SAMPLE OF A COLD ROOM

All of the cold storage panels are produced in a way that they can be assembled to each other according to the dimensions of the specified rooms. Moreover, thanks to the female-male shaped locking systems, they can be easily mounted to each other without the need for silicone<sup>1</sup> and can be disassembled<sup>2</sup> again when necessary.

\*1. Depends on the foreman of the installation. Esad Panel specifies their panel as no need to any glue "in assembly" when they're locked.  
\*2. Disassembly conditions has an importance in re-usage and it's just guaranteed for 1-3 times of disassembly (of conditions as mentioned depends on installation team).



# PRODUCT QUALITY INFORMATIONS



## HIGH DENSITY

With its optimum polyurethane, it does not allow the air to pass. (42KG m<sup>3</sup>)



## HEAT ISOLATION

It provides minimum heat leakage with its dense raw material.



## SOUND ISOLATION

What is inside stays inside, what is outside stays outside.



## EASY CARE

It is very easy to maintain thanks to its smooth surface and easy

## FIREPROOF

It has a fireproof certificate with high quality sheet metal.



## WATERPROOF

Your products may be the only liquid inside.



## PRATIC ASSEMBLY

It has the setup that even amateurs feel like experts.

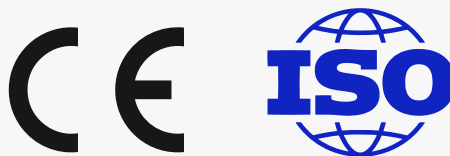


## HYGIENIC

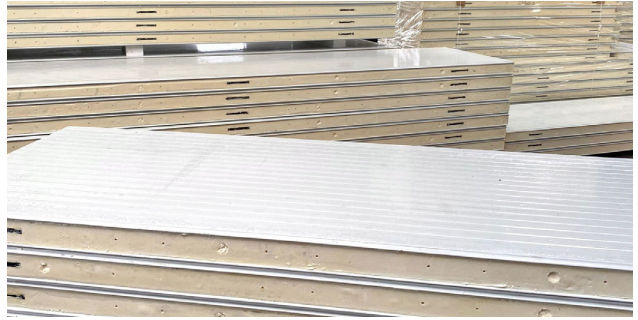
It is perfect for hygienic and sterile environments.



# COLD STORAGE CERTIFICATES



# COLD STORAGE FACTORY



# COLD STORAGE CONTACT



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## ESADPANEL

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