

TELECOM SHELTERS



ELECTRICAL ENCLOSURES



SANDWICH PANELS FOR COLD STORES AND BUILDINGS



REFRIGERATED TRUCKS AND TRAILERS



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Refcon

شركة صناعة الحاويات المبردة  
REFRIGERATED CONTAINERS INDUSTRIAL CO

Refcon





**REFCON** is Dedicated to the Design, Development & Manufacturing of High Quality Products viz.,

1. Insulated Shelters for Telecommunication & Electrical Industry.
2. Insulated Sandwich Panels for Construction Industry.
3. Refrigerated Trucks and Trailers for Logistics & Food Industry.

**REFCON** company, was established in Riyadh, the capital of the Kingdom of Saudi Arabia in 2004 as a Medium Scale Company with high Aspirations and Ambitions. In a short period of time, and as a result of the Vision and Dedication of the Founders, the efforts have succeeded in laying strong grounds for a Pioneering Company in the Containers Industry.

In this context, the company became a Pioneer in Manufacturing and Developing Innovative, Robust and high quality Shelters/Enclosures, Designed to meet the requirements and needs of a wide range of clients specially in Telecommunication, Electrical & Construction Industry.

**REFCON** has increased its production capacity to about 3000 Units Annually by establishing the first of its kind an Automotive Company which utilizes the latest International Technologies to manufacture the Insulated Containers/Shelters. The Company commenced operations in mid of 2005 with a production capacity of only 180 Units.

**REFCON** is able of Producing one Single Sandwich Panel of size 3.3 M Height & 15.2 M Length by Utilising Sophisticated Hi-Tech PLC Hydraulic Presses of Italian Origin.

#### **VISION:**

Always looking forward to new Horizons in the Manufacturing and Technology of Shelters along with maximizing the benefits of our products to enrich Client's Expectations & Prosperity.

#### **MISSION:**

To provide products and services in the field of Shelters Manufacturing in a way that meets clients desires and needs as well as to emulate the developments in the field for the sake of fulfilling these desires now and in the future.



## VALUES:

- a. Commitment
- b. Dedication
- c. Objectivity
- d. Creativity and Innovation
- e. Team Spirit

**REFCON** company utilizes High Quality Raw Material in its Production and performs conclusive Testing and Experimental procedures before being put to production and usage.

**REFCON** utilizes the best Equipment and the most Advanced Machinery in its production operations and will stay steadfast in keeping its promise of commitment to quality, objectivity and Innovation in manufacturing all its Products along with Professionalism that the company can through it realize excellence and increase its capabilities to reach the Highest International Standards.

**REFCON** company adheres to standards and specifications of the Saudi Standards, ANSI/ASCE, UBC along with American Specifications and Standards and the ISO in all its Products.













## INSULATED SANDWICH PANELS:

REFCON offers Pre-fabricated ready to assemble PU-Foam Sandwich Panels which has the following Features:

- Attractive appearance with a Functional Design.
- Portable, quick and easy to Assemble.
- Sturdy, with superior Heat and Sound Insulation.
- Resistance to chemical agents.
- Reliable and Durable with Low maintenance cost.
- High efficiency with Low Thermal Conductivity.
- The sandwich panel has significant Mechanical Strength, which makes it possible to go for larger spans as well as large partition walls.
- High Thermal Efficiency ensures Low Heat Transfer which means Low Refrigeration required.
- Reduces operational cost. Major cost for any cold chain operation is electricity. Lower the Refrigeration Load, Lowers the Electricity consumption.

## SKIN MATERIAL:

The Outer & Inner Skin material will be of either Light Corrugated or Plain Type 0.5/0.6mm Thick Pre-Painted (Polyester Coated-RAL 9010) Galvanised Sheet, which is of Lock Forming Quality and Manufactured According to ASTM A653/A924 Standard.

## SIZE OF SANDWICH PANELS :

Length --- Maximum upto 12.5 Meters

Width --- Maximum upto 1.2 Meters

Thickness --- 50mm,75mm,100mm,150mm

## Structural Details:

REFCON Cold Storage Sandwich Panels are locked together using high grade Camlocks, which are permanently anchored into the rigid injected polyurethane foam along the entire length of panel during the production process. Camlocks, Tongue and Groove mechanism joins the single sandwich panels into a unified assembly, ensuring the system total air tightness and increase the strength and stability of structure. Pre-Engineered panels from Refcon offers flexibility and adaptability that go beyond cold room applications. The modular structured cell is self bearing it can be disassembled, made bigger and moved to a different location without damaging it anyway.

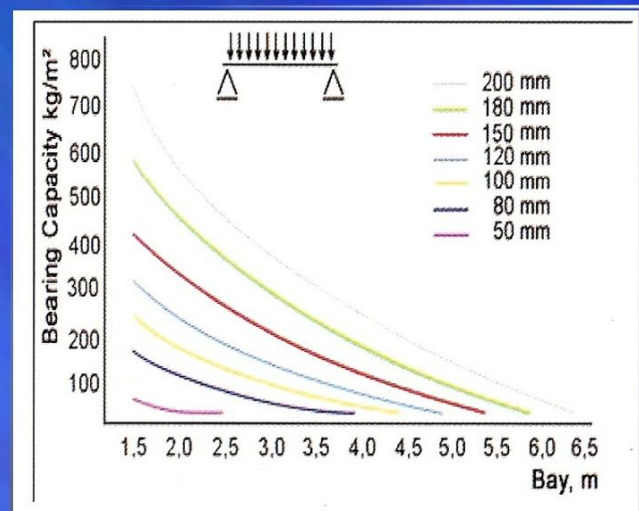
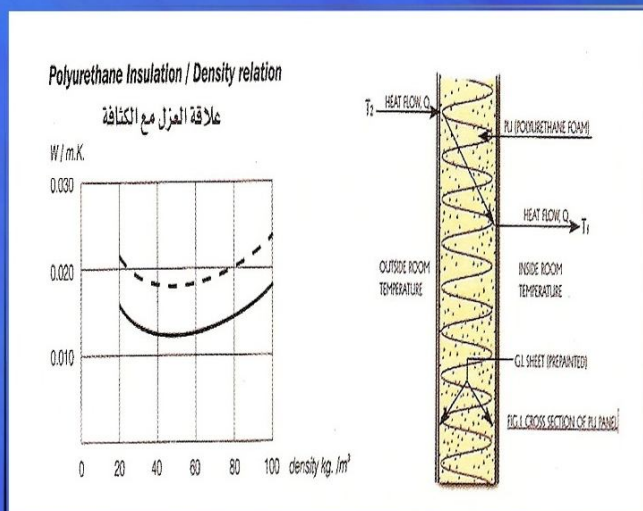




## POLYURETHANE TECHNICAL DETAILS:

The Convincing Insulation method with core made of rigid PU Foam for industrial and office buildings , Residential and Agriculture buildings , Refrigerated vehicle as well as all buildings requiring special and constant temperature control like cold storage depots and freezing plants, damp rooms , pharmaceuticals ,Processed Food industries etc.,

Density	42 Kg/M <sup>3</sup> (±2)	DIN EN845
Thermal Conductivity	0.016 W/M <sup>2</sup> K	DIN 52612
Fire Point	245°C	
Closed cells	95 %	ISO 4590
Comparison strength @ 10% strain	0.21 N/mm <sup>2</sup>	DIN 53421- DIN5342
Adhesive Strength to metal	0.15 N/mm <sup>2</sup>	
Flexural Strenght	0.58/ N/mm <sup>2</sup>	DIN 53423
Bending Strength	0.28 N/mm <sup>2</sup>	DIN 53423
Bending	13 mm	DIN 53423
Dimensional Stability		
@-20°C	0.10% Volume Change	
@ +38 °c and 90 % rh	0.15% Volume Change	
@ +100 °c	1.00% Volume Change	
Water Vapor Transmission		
@ +38 °c and 90 % RH after 24 Hours	83 gm/M <sup>2</sup>	ISO 1663



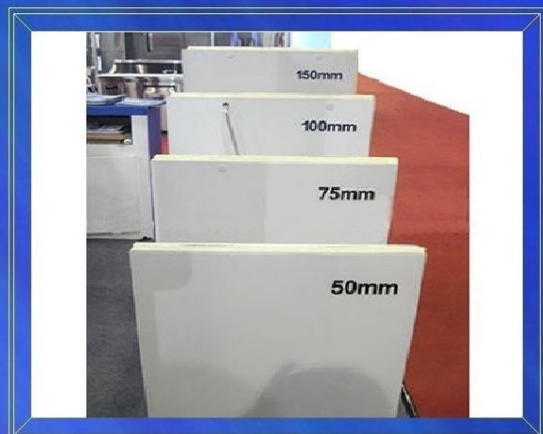
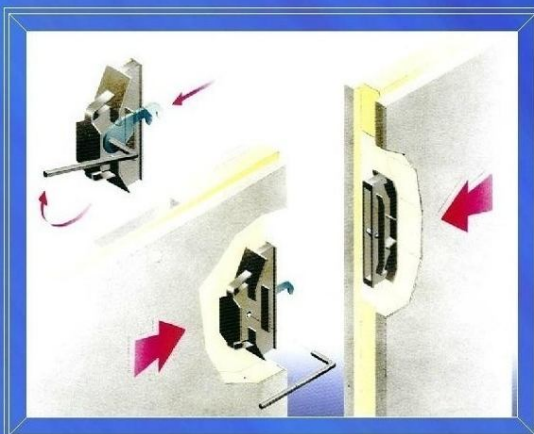
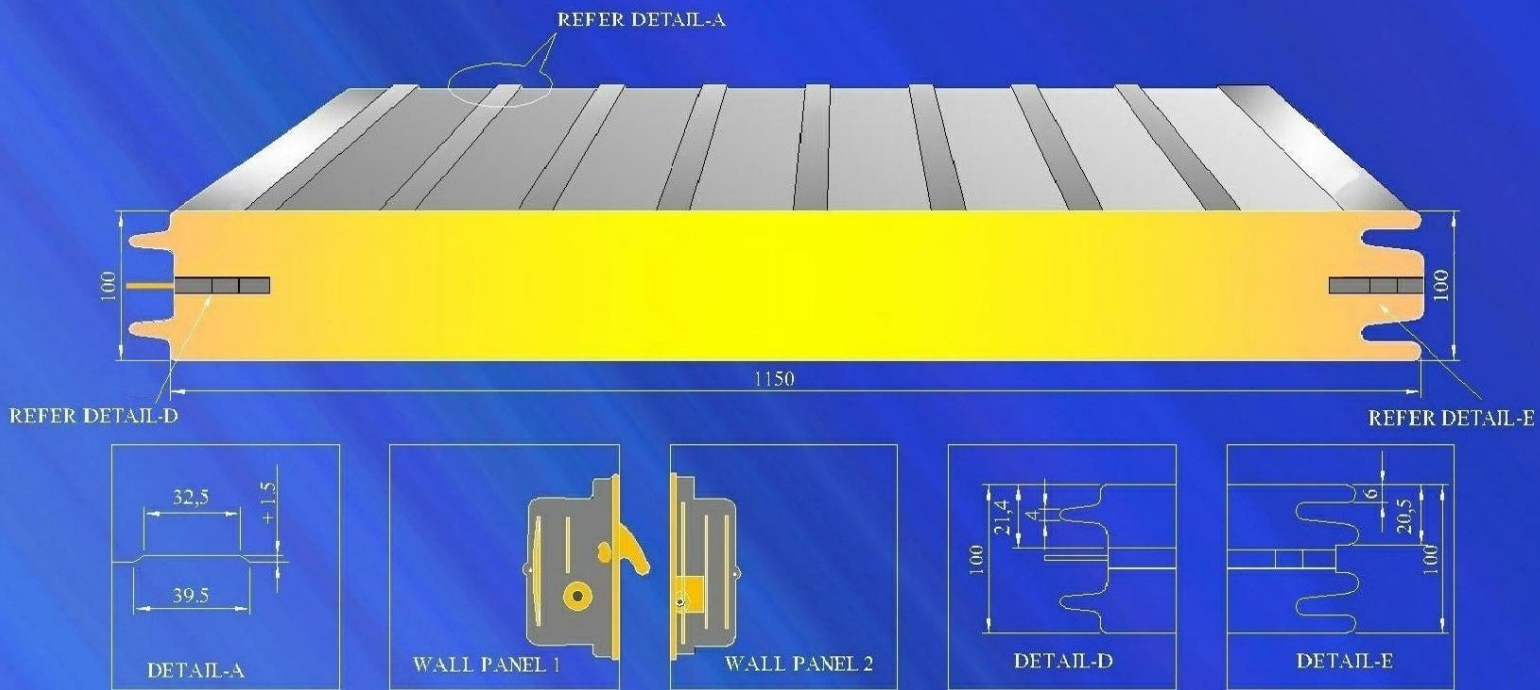


# TYPES OF SANDWICH PANELS:

## 1- Male and Female Type



## 2- Camlock Type









# GROUP OF COMPANIES

شركة الخليج لفتحات التكييف المركزي (جى جى سى)



GULF GRILLES COMPANY (G.G.C)

P.O.BOX 120 RIYADH 11383 SAUDI ARABIA

TEL: 011-265 1221 FAX: 011-265 1505

Email: sales@ggc.com.sa



CERTIFICATE SA 10/2127

مصنع فلاتر الصحراء (داف)



DESERT AIR FILTER FACTORY CO, (DAFF)

P.O.BOX 980 RIYADH 11383

SAUDI ARABIA

TEL: 011-265 0567 FAX: 011-265 0287

Email: info@daff.com.sa



CERTIFICATE SA/10/2128

الشركة العالمية للالمنيوم (الينكو)



ALUMINIUM INTERNATIONAL CO. (ALINCO)

P.O.BOX 609 RIYADH 11383

SAUDI ARABIA

TEL: 011-265 9470 FAX: 011-265 9471

Email: sales@alinco.com.sa



CERTIFICATE SA 10/2136





## REFRIGERATED CONTAINERS INDUSTRIAL COMPANY

شركة صناعة الحاويات المبردة



ص ب ٦٠٨

الرياض ١١٣٨٣

المملكة العربية السعودية

هاتف: ٠١١-٢٦٥٩٤٦٠

فاكس: ٠١١-٢٦٥٩٤٦٩

بريد الكتروني: sales@refcon.sa