FrigoSys
Master Cold Enginering

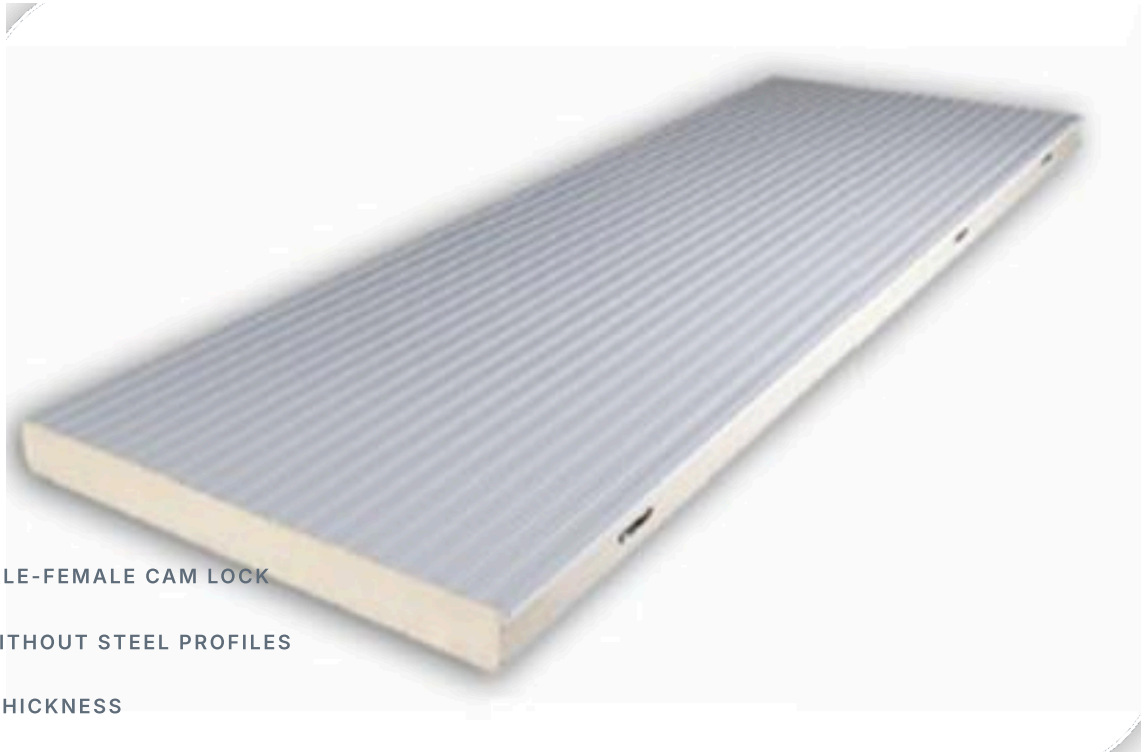
PRODUCT CATALOG · 2026

COLD ROOM PANELS

Camlock Sandwich Panel

CAM-LOCK JOINTED COLD ROOM PANELS · WALL & CEILING

KILITLI SOĞUK ODA SANDVIÇ PANELI · DUVAR VE TAVAN



Tool-free MALE-FEMALE CAM LOCK

9 m+ PANELS WITHOUT STEEL PROFILES

80–200 MM THICKNESS

ABOUT US · HAKKIMIZDA

Frigo System

Frigo System was established by a highly experienced and dynamic team in the refrigeration industry. We carry out project engineering, production, assembly and service for industrial and commercial cooling systems, with a team specialised in energy efficiency and optimisation.

From a single walk-in cooler to multi-room cold storage plants, we supply cold room panels, doors and refrigeration systems from our factory in Türkiye to customers in the USA, Europe, the Caucasus, the Middle East and Africa.

Camlock Sandwich Panel

A cold room panel with a built-in male-female cam-lock mechanism. Panels are clamped together tightly without tools, so wall and ceiling panels interlock without gaps and the use of adhesives is kept to a minimum.

CONTENT · İÇINDEKILER

03 Features & Advantages
Özellikler ve avantajlar

04 Cam-Lock Mechanism
Kilit mekanizması ve birleşim detayları

05 Technical Specifications
Teknik özellikler

06 Thermal Performance & Selection
Isıl performans ve kalınlık seçimi

07 Installation Process
Montaj işlemi

08 Floor Insulation Details
Zemin yalıtım detayları

09 Handling & Storage
Taşıma ve depolama

10 Contact
İletişim

Efficiency & Savings

The right process for each project — quality and economical work.

On-Time Delivery

We deliver on the agreed date and service every job we do.

Quality Workmanship

Quality materials, factory-controlled production and assembly.

Export Ready

Packing, export documents and logistics handled in-house.

01 · ÖZELLIKLER VE AVANTAJLAR

Features & Advantages

Key Features

- Male-female cam-lock mechanism — panels clamp together properly without tools
- Wall and ceiling panels interlock without gaps for better sealing
- Use of adhesives minimised
- Panels work as a whole against vacuum effects from sudden temperature changes
- Advanced lock technology — no sticking due to corrosion
- Easily removed and re-installed whenever required
- PUR or PIR insulation core

Structural Benefits

- Prevents joint slips and insulation deformation
- Keeps structural integrity under pressure differences from door opening and closing
- Prevents leaks caused by surface movements
- Removes the need for steel profiles where panels longer than 9 m are used
- Lower steel profile cost and a more hygienic room

Product applications · Uygulama alanları

Fruit & Vegetable
Fruit and vegetable facilities

Dairy & Ice Cream
Dairy and ice cream facilities

Poultry
Poultry processing plants

Meat
Slaughterhouses and meat processing plants

Cold Storage
Cold storage warehouses

Fish
Fish processing and storage areas

Advantages

Tool-free locking
Cam locks pull panels tight together — fast and even clamping along the joint.

Airtight envelope
Gap-free joints plus mastic give a sealed, energy-efficient cold room.

Vacuum resistant
Walls and ceilings act as one unit against pressure and vacuum loads.

Tall rooms
Panels over 9 m without extra steel profiles in the wall.

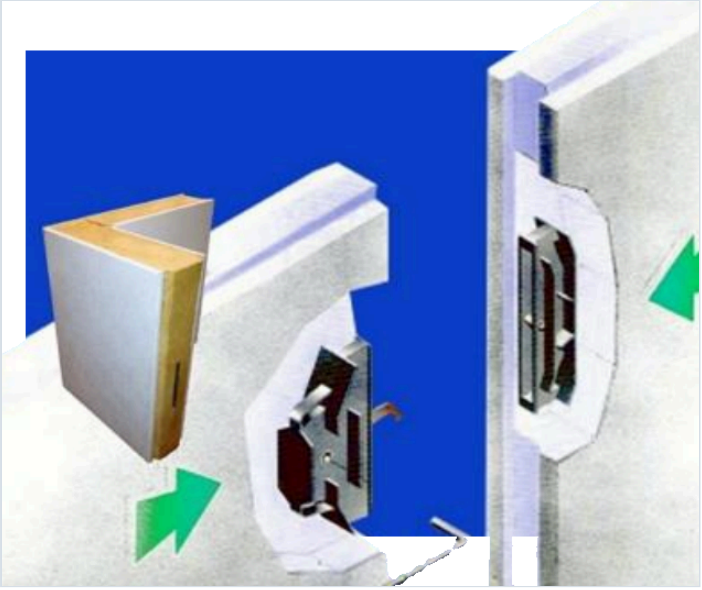
Corrosion-proof lock
No seizing of the lock due to corrosion over the life of the room.

Demountable
Rooms can be dismantled, moved and re-installed easily.

02 · KILIT MEKANIZMASI

Cam-Lock Mechanism

Each panel edge carries a male or female lock housing foamed into the core. Turning the cam with a hex key hooks the male lock into the female lock and pulls the two panels firmly together.



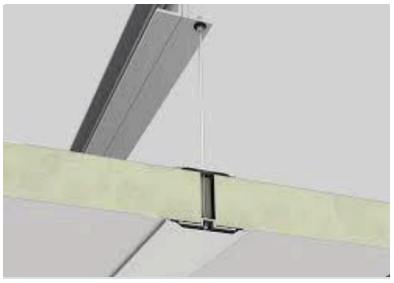




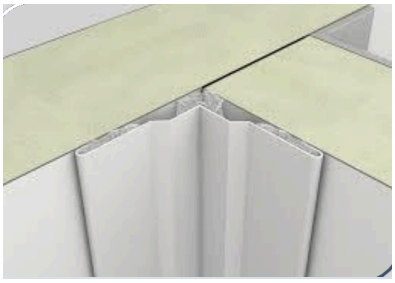
Joint details · Birleşim detayları



Wall–ceiling corner
Ceiling panel sits on the wall panel, closed with a corner profile



Ceiling joint & suspension
Panel-to-panel lock joint with ceiling hanger

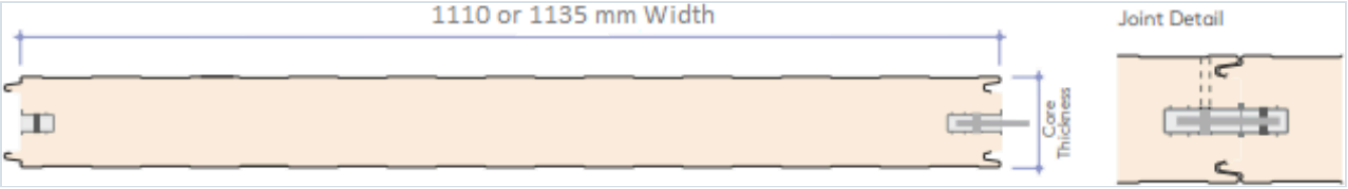


Wall–wall corner
Internal corner closed with a PVC corner profile

03 · TEKNIK ÖZELLIKLER

Technical Specifications

Specification	Frigosys Camlock Sandwich Panel
Product Ürün	Camlock sandwich panel for cold room walls and ceilings
Core Dolgu	PUR (polyurethane) or PIR (polyisocyanurate) rigid foam
Thickness Kalınlık	80 · 100 · 120 · 150 · 200 mm
Panel width Panel eni	1110 mm or 1135 mm
Joint Birleşim	Male-female cam lock, tongue-and-groove edge · mastic in joint gaps
Skins Yüzey	Painted steel sheet
Use Kullanım	Cold room walls and ceilings · rooms with panels longer than 9 m



Weight and U-value by thickness

Insulation thickness (mm)	80	100	120	150	200
Weight kg/m²	12.22	13.20	14.00	15.31	17.20
U-value W/m²K	**0.28**	**0.22**	**0.19**	**0.14**	**0.11**

04 · ISIL PERFORMANS VE KALINLIK SEÇIMI

Thermal Performance & Selection

The maximum heat gain by conduction in a cold store should be limited to 10 W/m². The table shows the heat gain (W/m²) for each panel thickness at the temperature difference between inside and outside the room — choose the thickness that stays within the limit.

mm	U W/m²K	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°
80	0.28	2.8	4.2	5.6	7.0	8.4	9.8	11.2	12.6	14.0	15.4	16.8	18.2	19.6	21.0	22.4	23.8	25.2
100	0.22	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8
120	0.19	1.9	2.9	3.8	4.8	5.7	6.7	7.6	8.6	9.5	10.5	11.4	12.4	13.3	14.3	15.2	16.2	17.1
150	0.14	1.4	2.1	2.8	3.5	4.2	4.9	5.6	6.3	7.0	7.7	8.4	9.1	9.8	10.5	11.2	11.9	12.6
200	0.11	1.1	1.7	2.2	2.8	3.3	3.9	4.4	5.0	5.5	6.1	6.6	7.2	7.7	8.3	8.8	9.4	9.9

Temperature difference between inside and outside of the room (°C) · values in W/m²

Within the 10 W/m² limit Above 10 W/m² — choose a thicker panel

Recommended thickness · for an outside temperature of +35 °C

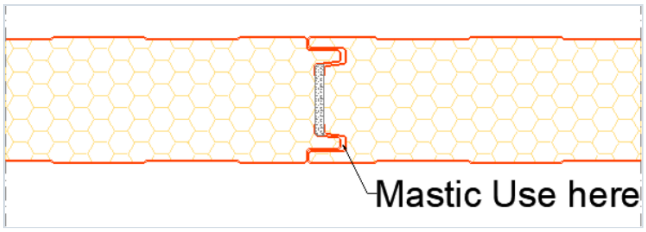
80 mm	100 mm	120 mm	150 mm	200 mm
Chill rooms	Low chill / light freeze	Freezer rooms	Deep freeze	Blast freezers
0 … +5 °C	−5 … −10 °C	to −15 °C	−18 … −35 °C	−40 °C and below

Derived from the table above with the 10 W/m² rule. Final selection depends on site climate and project conditions.

05 · MONTAJ IŞLEMI

Installation Process

The panel provides excellent thermal insulation and air tightness and can be used wherever cold conditions are required. Air leakage is prevented by applying mastic to the gaps in the panel joints during assembly.



Mastic in the joint

Apply mastic to the gaps where the panels meet before locking. The cam lock then presses the joint closed, giving an airtight seal.

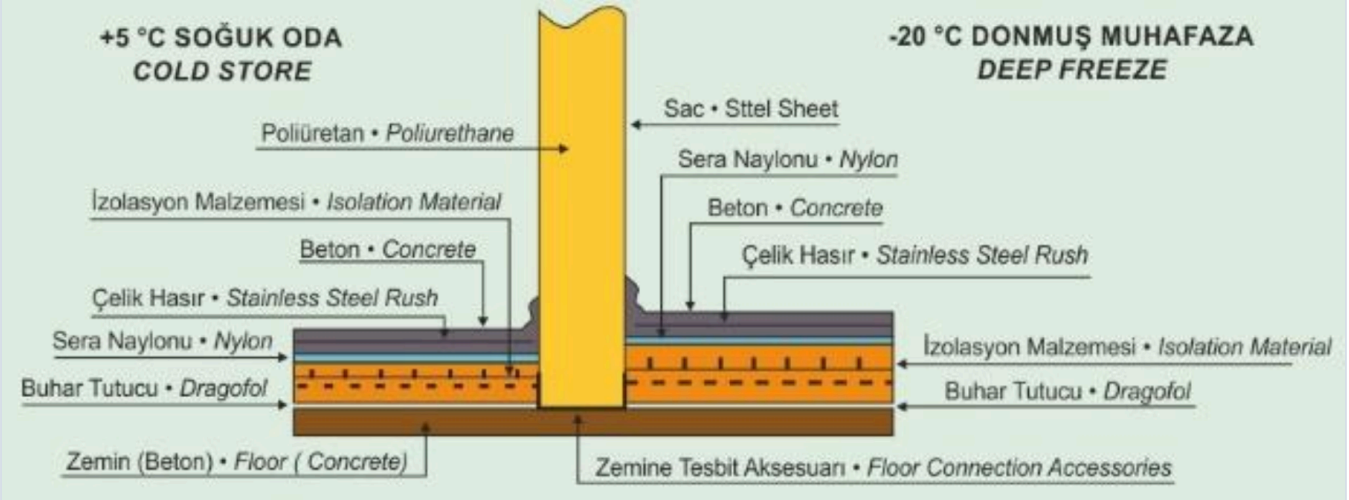
Installation steps

1. Prepare a level, insulated floor and set out the room according to the panel layout.
2. Stand the first wall panel, then offer the next panel up so the male and female locks face each other.
3. Apply mastic to the gaps in the joint.
4. Turn each cam with the hex key to pull the panels together; close the lock holes with caps.
5. Lay the ceiling panels on the wall panels and lock them the same way; hang long spans from the structure.
6. Finish corners and joints with profiles and food-safe silicone.

06 · ZEMIN YALITIM DETAYLARI

Floor Insulation Details

Typical floor build-up at the wall panel for a +5 °C cold store (left) and a −20 °C deep-freeze room (right).



+5 °C Cold store

From the floor up: concrete floor · vapour barrier · nylon sheet · insulation material · steel mesh · concrete screed. The PUR / PIR wall panel stands on the insulated floor.

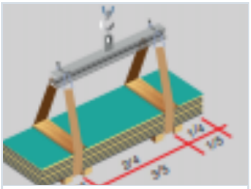
−20 °C Deep freeze

From the floor up: concrete floor · vapour barrier · insulation material · nylon sheet · steel mesh · concrete screed. Steel-sheet panel base fixed with floor connection accessories.

07 · TAŞIMA VE DEPOLAMA

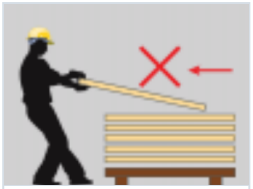
Handling & Storage

Correct handling and storage on site protect the painted surfaces and the joints. Please follow these rules from delivery to installation.



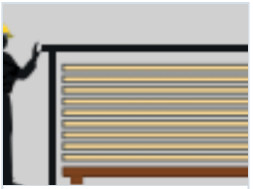
Hoisting

Take precautions for the sling when hoisting panel packs.



Do not drag

Do not drag panels on the pile or roof purlins. Lift each panel from both ends when moving or laying it.



Long-term storage

Stack in covered areas, on wooden wedges, protected from ground water.



Short-term storage

Stack on a sloping area under simple scaffolding and polyethylene cover, leaving space for ventilation.



Do not walk

Do not walk on the panels.

On delivery

Check packs for damage before unloading. Report any deformation of skins or joints to your representative before installation.

On site

Keep packs flat and supported along their length, off the ground and protected from water.

FrigoSys
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Contact Us

For enquiries, quotations or technical support on our panels, doors and refrigeration solutions, get in touch with us.

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Engineered for cold.
Built to last.