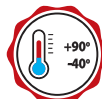




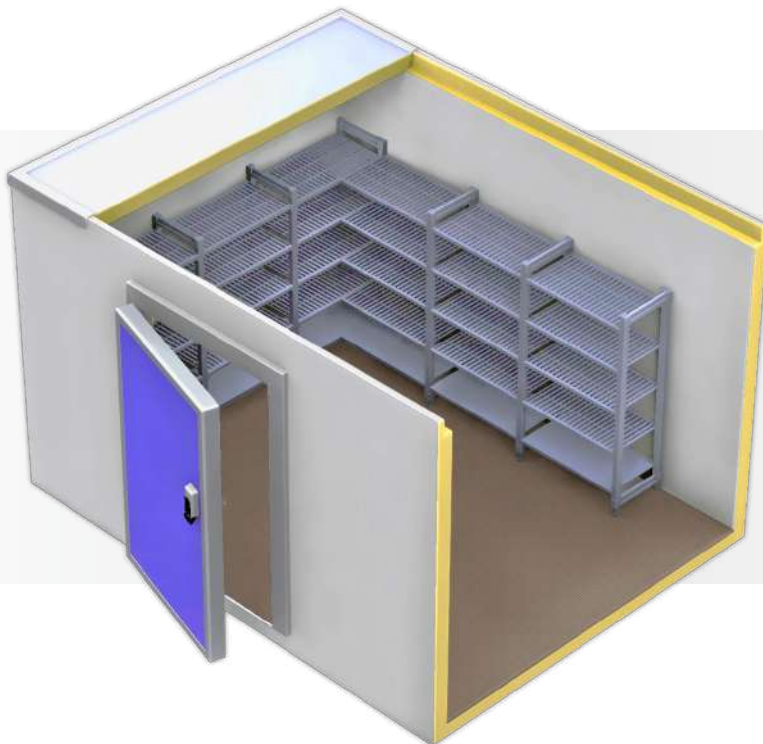
The AMP Cold Rooms are manufactured in our Industry in Kryoneri Industrial Area of Athens with highly accurate latest technology machinery. They are air-tight for maximum economy on energy.

Cold rooms are constructed of polyurethane panel sandwich type, in different thicknesses in accordance to the demanded temperature of chiller or freezer.

Certified with CE EN13241-1 (EN 89/106/ EK).



- The panels are connected with three thermal barriers that seal tightly with the German snap-in-system.
- For chillers, the kunststoff profiles, that cover the narrow sides of the panels and cut the thermal bridges, connect the side panels with the floor and the ceiling.
- For freezers, the connection of the perimeter panels with those of the roof is made with modern (as Europe and America) that is using a packet with special flashings (backsplashes and F-shape for supporting the perimeter panels). For the connection of the side panels with the ceiling panel a step (with special machines) is created to prevent the escape of temperature-cooling.
- Four angular panels of strong construction that ease the connection of the sides as if it was a straight line. The panels seal tightly at the connections with special sealing flanges from neoprene, perimetrically at the ceiling and the floor. Energy saving technology.
- Steel sheets lining of 0,55 mm thickness, with polyester anti-toxic coating NSF and protective foil.
- Polyurethane insulation from BAYER Germany, with $\lambda R = 0,022 \text{ W/mk}$ and density 42 - 45 kg/m^3 .
- Frame from reinforced thick PVC in angular shape of German design covers all the thickness of the panel and is installed with the CPR system in 5 minutes with HACCP standards.
- Hinged and sliding doors of German technology in all dimensions with modern mechanisms.
- The dimensions of the cold rooms are expandable by 50 cm at the length and width. Special dimensions available without extra cost.
- Every freezer room is equipped with electric decompression valve.
- Study, design and specifications according to DIN from the Polytechnic University of Berlin.
- Compliance with HACCP regulation. Big saving of electrical energy.



Cold room with polypropylene shelves

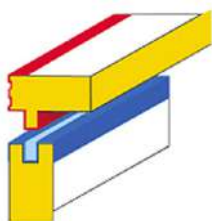
	MOD CRPT	MOD CRNT
Application		
Chiller Room	●	
Freezer Room		●
Dimensions (mm)*		
Minimum Length	1500	1500
Minimum Depth	1200	1200
Minimum Height	2000	2000
Maximum Length	10000	10000
Maximum Depth	8000	8000
Maximum Height	3500	3500
Panel Thickness (mm)		
Minimum Thickness	60	100
Maximum Thickness	100	120
Options		
Hinged Door	●	●
Sliding Door	○	○
Hygiene Profiles	●	●
Decompression Valve		●
Panel Floor	●	●
Antislip Floor	●	●
Window	○	○

● Standard
○ Optional

* For custom dimensions contact with A. Motors office.

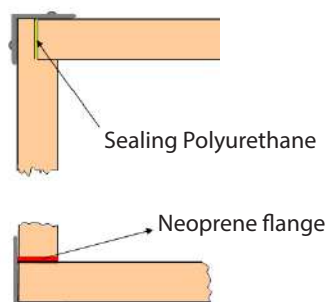
PANEL CONNECTION

CHILLER

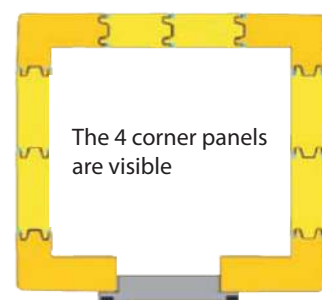


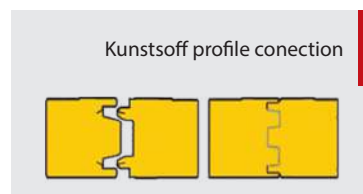
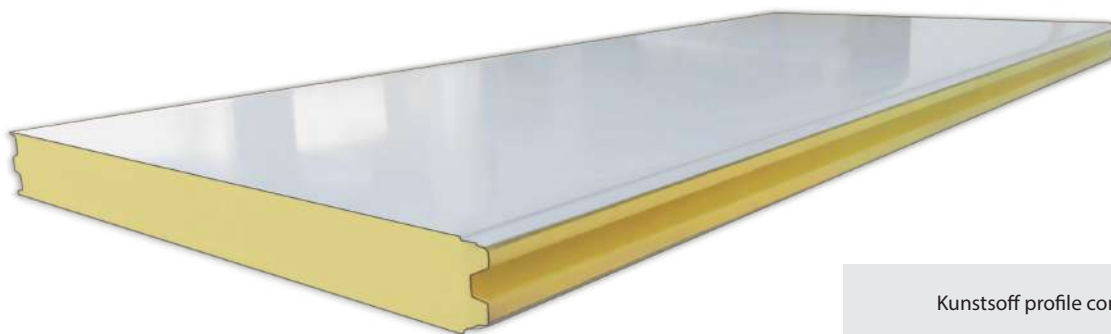
Connection with Kunststoff profiles

FREEZER



HORIZONTAL VIEW

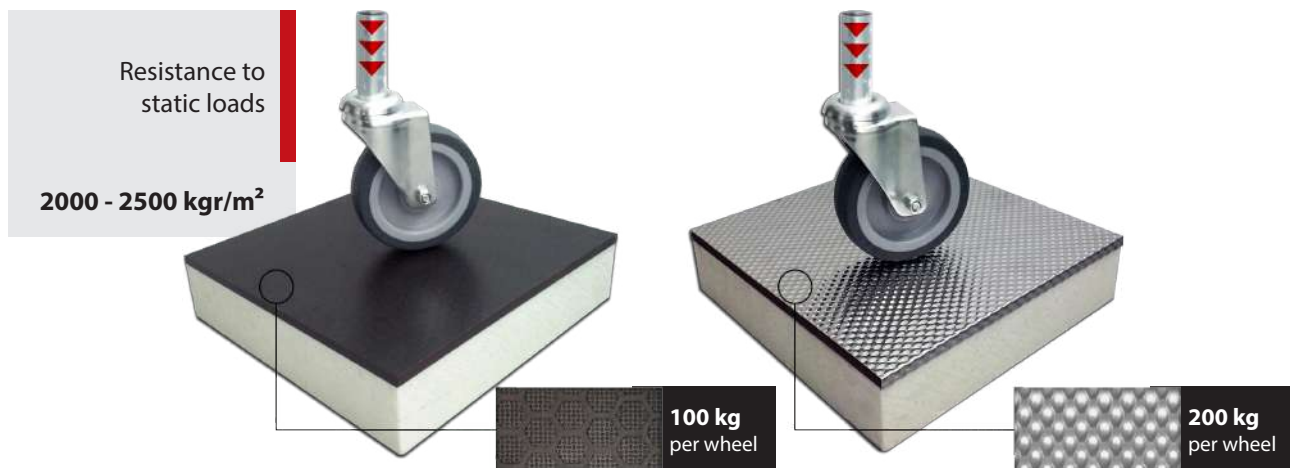




- The Panels are sandwich type with polyurethane core, assembled with simple way. They are connected with three heat dams to seal effectively "holding" the cooling.
- Polyurethane panels for cold rooms are coated with white steel sheets, RAL 9002, with antitoxic polyester coating and protective FOIL.
- Upon request, there is the possibility at the external side bear to be vertical ribbed for greater mechanical strength.
- For insulation of the panels, hard polyurethane foam is used with $\lambda R = 0,022 \text{ W/mk}$ and density 40 kg/m^3 , a three times insulating capacity of other insulation materials, and non flammable. The polyurethane is poured into heated press under 500 tons of pressure, and the inner walls of the sheet steel are sprayed automatically with adhesive, so that the detachment is impossible (patent of factory).
- The electronic control of the standards of panels to material ratios, pressures, times, humidities, mixing temperatures and shaping of the sheet steel ensure:
- Maximum thermal insulation coefficient.
- Stable quality and impermeability.
- Light panel with high mechanical strength.
- Dimensional accuracy in millimeter.
- Precedence to quality and technology.

TECHNICAL SPECIFICATIONS

PANEL	PU 60	PU 80	PU 100	PU 120	PU 140	PU 150	PU 200
panel thickness mm	60	80	100	120	140	150	200
U-value (W/m ² K)	0,39	0,30	0,24	0,20	0,17	0,16	0,12
self-weight (kN/m ²)	0,116	0,124	0,132	0,140	0,148	0,152	0,172



Plywood floors with Finland phenolic coating and stainless steel reinforced INOX 304 floors. Anti-slip, insulation, unaffected by moisture, for cold rooms and spaces labor. They do not retain dirt and they are easily cleaned.

The only genuine antislip INOX floors that pallet trucks with rubber wheels can move, comfortably, without difficulty.

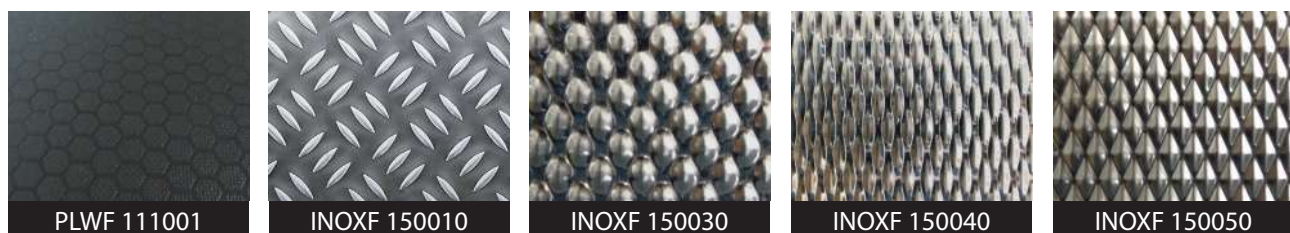
PLYWOOD FLOOR

- Reinforced marine plywood from Finland specially for cold rooms.
- With phenolic anti-slip coating.
- Very strong and resistant to static loads of 2.000 kg/m².
- Insulating, unaffected by moisture, they do not retain dirt and are easy to clean (waterproof).
- Sheet dimension 1.250 x 2.500 mm x 9mm thickness, brown colour.

STAINLESS STEEL FLOOR

- Stainless steel anti-slip floor, placed and glued on marine plywood from Finland, from 15mm up to 21mm thickness, at a heated press of 500 tons. The back side of the plywood and the bench are covered with a 2 times polyester coating for complete sealing. Static load capacity from 2.000 up to 2.500 kgr/m².
- **Stainless steel textured surfaces in various designs (decor) can also be placed on the outside of the door giving a standard surface of luxury and solidity with unlimited lifespan.**

FLOOR MODELS



The purpose of using decompression valves at cold rooms is to maintain the internal and external pressure balanced. The pressure variations periodically occur during the different defrosting phases and during the opening & closing of the cold room door.

The valves are supplied in 3 different models depending of the internal volume (V) of the cold room - small (up to 50 m³), medium (from 50 up to 150 m³) and large (from 100 and up to 800 m³).

ΜΟΝΤΕΛΑ ΒΑΛΒΙΔΩΝ | VALVE MODELS



Valve for small internal volume up to 50 m³ expandable

117075



Valve for medium internal volume (from 50 up to 150 m³)

117072



Valve for large internal volume (from 150 up to 800 m³)

117074

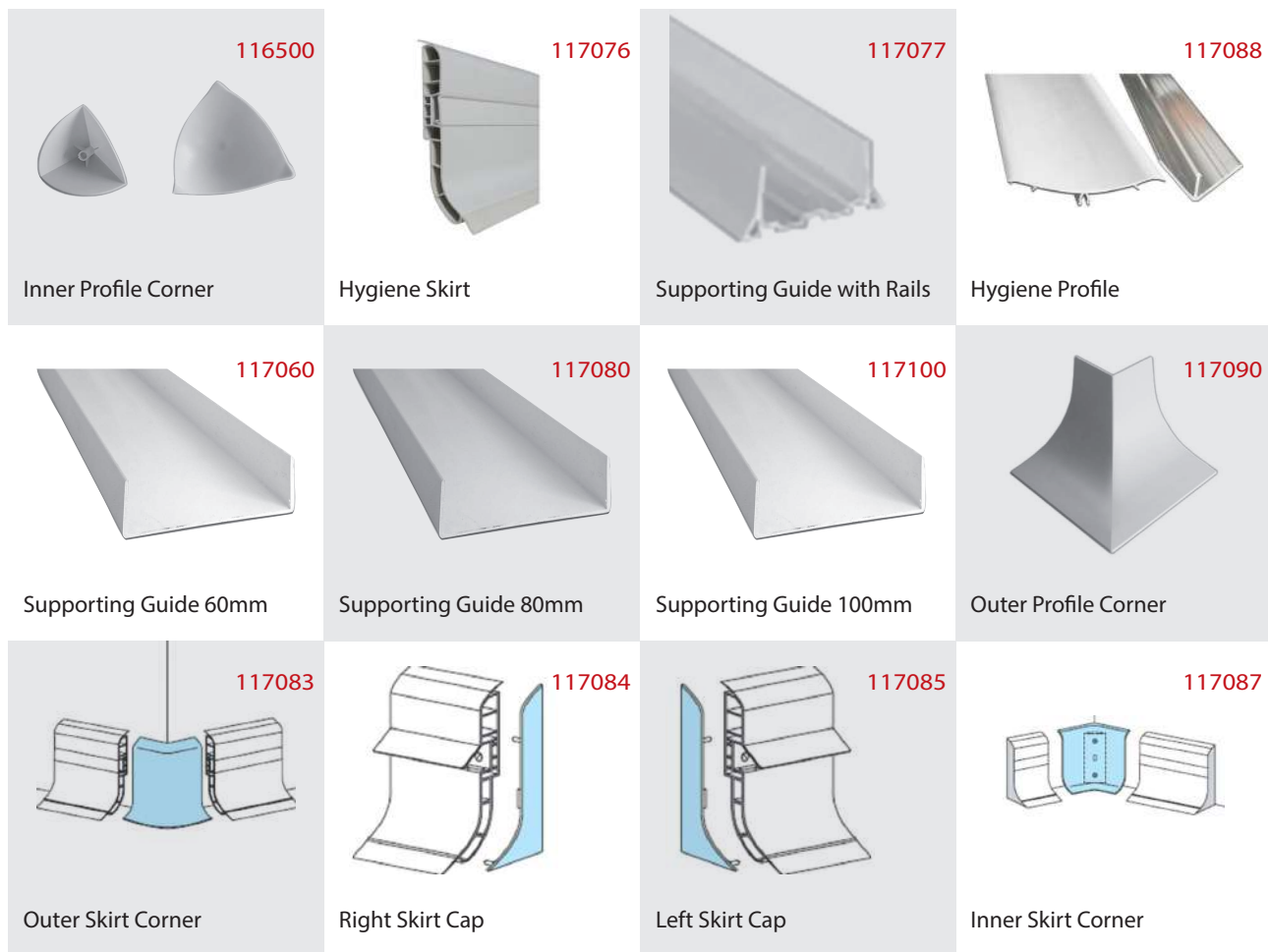
Hygiene angles

Special Hygienic Profile (hygienic angles) of PVC cup shaped are provided with silicone ends and aluminum base guide of heavy duty, with which the inner corners of the chambers are overlapped watertight, as required by the requirements of the European Union, for the practical and easy cleaning of the cold room and for the avoiding of concentration fungi, bacteria, etc.

Hygiene silicone skirting boards

Special PVC profiles with silicone ends which covers sealingly the angles that are formed between the perimeter panels and the floor, for the easy purification of the cold room and to not creat outbreak infections at these points.

PROFILE TYPES

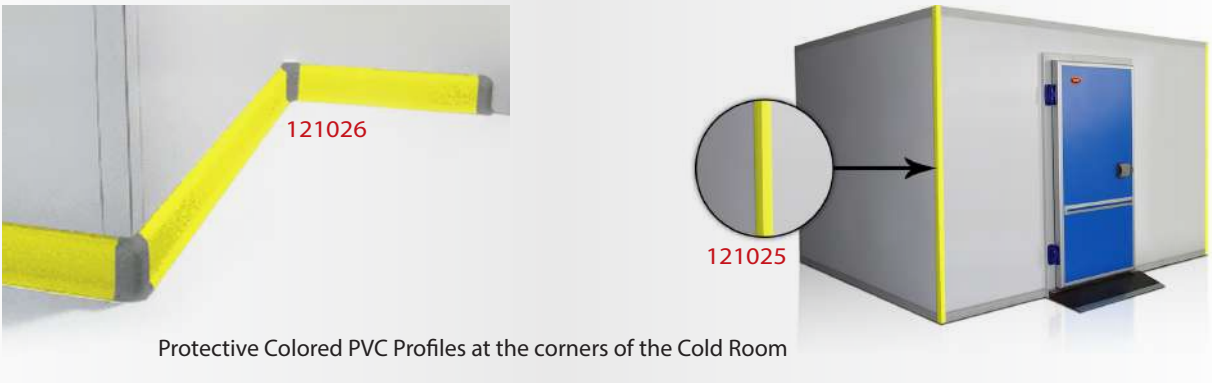


To protect panels, doors, chambers and goods at storage or production, we recommend our special construction, products MOD BARS from strong pvc reinforced with internal steel axis of extremely high resistance from knocks and bumps pallet trucks, trolleys and forklifts.

Innovative solutions exclusively designed to combine the speed and ease at placement and cleaning, offering and aesthetic result.

Available in various dimensions.

PROTECTIVE BARS IN DIFFERENT SHAPES



At the entrance of the cold room a special heated floor system with resistors in mesh form under the concrete is used to allow the user to enter a clear ice-free cold room. It is a heated resistance cable, pre-assembled with a self-adhesive aluminum film. It is special for heating industrial and commercial floors.

Specs:

- Grid Structure: Heated resistance cable with self adhesive aluminum tape
- Grid width: 0.5m
- Rounded shape cable with diameter 6,5mm
- External cable insulation: high temperature PVC
- Insulation class: IP 67
- Power cable: 5m

DETAILS



You can use an insulated cold room window to your clients, to give the chance to customers to walk in the cold room and pick the stored products (for meat, cheese, fruits and vegetables). The window is installed tightly on the polyurethane panel or on the door leaf with thermal break.



In the chiller cold rooms, INOX 304 hooks are placed solid inside the cold room, around in a double row with one or two transverse extra rows very reinforced (flats 60 X 12, corner columns 50 X 50 X 5 and 16mm round nails on the edge). These hooks are very important addition inside the cooling chamber, especially in meat production units, butchers, food production facilities and dairies.

The stainless steel hooks are heavy duty and of high mechanical strength.

The stainless steel hooks are manufactured according to the dimensions of each cold room.



Inox hooks inside a cold room for meats



Our products are constructed in our modern facilities in Kryoneri Industrial Area, Athens, in compliance with German DIN standards of Berlin Technical University & HACCP specifications.

A. MOTORS - CH. PILALIS S.A.

Cold Room & Door Industry
Protomagias 5, Kryoneri Industrial Area,
Zip Code. 14568,
Athens, Greece

☎ Tel. +30 210 62 20 100

✉ Email: info@ampdoor.com



www.ampdoor.com

