ECOEFFICIENT INSULATION QUANTEC® TECHNOLOGY

REFRIGERATION PANEL

FRIGOPAP+

UNIQUE TRIPLE TONGUE AND GROOVE JOINT WITH MILLED FINISH

Applications

Industrial facilities, agrifood industry, logistics centres, cold storage warehouses, supermarkets, and all types of insulation for industrial unit construction systems.

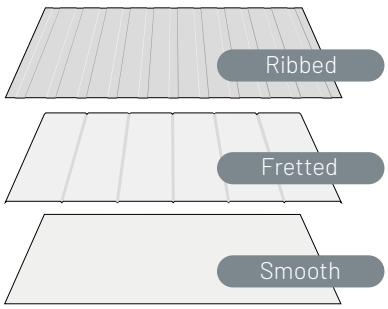
Thermal efficiency

Thermal conductivity coefficient λ of Frigopap+ = 0.0205 W/mK

Initial value λ = 0,019 W/mK (Applus). Thermal transmittance determined according to Standard UNE-EN 14509, considering the effect of ageing of the insulating core.

New "QUANTEC" PolyIso formula available with thermal efficiency of 0.0169 W/mK, best lambda in the market.

Available finishes



Illustrative image that does not show the entire constructive width.

Certificates

REACTION TO FIRE B-s1, d0

FIRE RESISTANCE E 120/EI 60*

*200 mm thick panel.

FM APPROVED FM 4880

FM APPROVED FM 4881

FM APPROVED FM 4882

CE

CSTB le futur en construction

Factory ISO 9001 and ISO 14001 certified

Panels are manufactured in compliance with the UNE-EN 14509 standard

Guaranty of performance

- **Air Permeability:** 0,006 $m^3/h \cdot m^2$ a 50 Pa. Allows to create tightness (controlled atmosphere rooms / negative or positive pressure rooms...).
- **Water Permeability:** 1.200 Pa (class A).
- **Water Vapour Permeability:** Watertight.
- **More than 50 years Guarantee.** BLP certified in Durability Assessment.

50 YEARS WARRANTY

Materials

BASE MATERIAL

PRELACQUERED GALVANISED STEEL SHEET

- S220/S250 steel from Z140 to Z275, 0.4 – 0.7 mm thick.
- EN 10346 for galvanised coating and EN 10169 for organic coatings.

COATINGS

STANDARD COATING

- White lacquered polyester, 25 µm.

FINISH OPTIONS

- Granite HDX Z275, 55 µm.
- HPS 200 µm.
- PVDF 33 and 55 µm.
- PVC 100 and 200 µm.
- PET 55 µm.

COLOURS

- Standard coating: Pyrenees White 1006.
- Other RAL colours on request.

INSULATING CORE

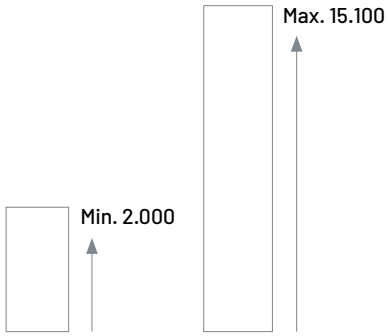
POLYISO (POLYISOCYANURATE)

- Density: 40 $Kg/m^3 \pm 2$.

Available Thicknesses and Lengths

THICKNESS (mm) — Weight (Kg/m²) of panel with 0.5/0.5 mm sheet

LENGTH (mm)



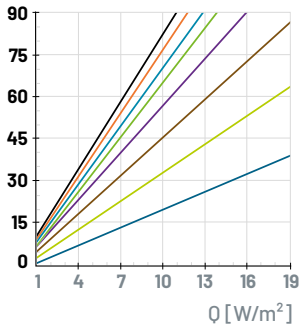
Thermal Transmittance

THICKNESS (mm)

40	60	80	100	120	150	180	200
0,49	0,33	0,25	0,20	0,17	0,14	0,11	0,10

U (W/m²K)

TEMPERATURE ΔT ºC



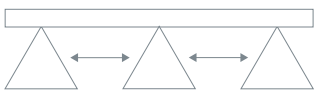
Permitted Loads

	THICKNESS (mm)							
LOAD (Kg)	40	60	80	100	120	150	180	200
60	3,40	4,70	5,99	7,35	7,93	9,10	9,89	10,30
80	2,98	4,10	5,18	6,28	6,78	7,82	8,79	9,03
100	2,70	3,69	4,63	5,57	6,01	6,72	7,66	7,85
120	2,48	3,38	4,22	5,04	5,44	5,93	6,84	7,46
150	2,24	3,04	3,77	4,47	4,82	5,09	5,96	6,34
180	2,07	2,79	3,44	4,05	4,37	4,49	5,33	5,55
200	1,97	2,65	3,26	3,82	4,13	4,18	4,99	5,14

PRESSURE LOAD ON 2 SUPPORT POINTS

60	4,11	5,46	6,61	7,48	7,74	9,20	10,38	10,70
80	3,51	4,62	5,55	6,28	6,88	7,74	9,09	9,43
100	3,11	4,06	4,85	5,37	6,01	6,70	7,95	8,05
120	2,82	3,65	4,34	5,04	5,35	5,93	7,12	7,76
150	2,49	3,21	3,79	4,38	4,75	5,12	6,28	6,70
180	2,26	2,88	3,39	4,00	4,31	4,54	5,60	5,85
200	2,13	2,71	3,18	3,75	4,07	4,23	5,15	5,35

PRESSURE LOAD ON 3 SUPPORT POINTS



Load (daN/m²). Deflection span < L/200 (1 Kgf - 0,98 daN)), panel with 0,5/0,5 mm sheet.
Values of evenly distributed loads. Acceptable spacing between supports in metres.