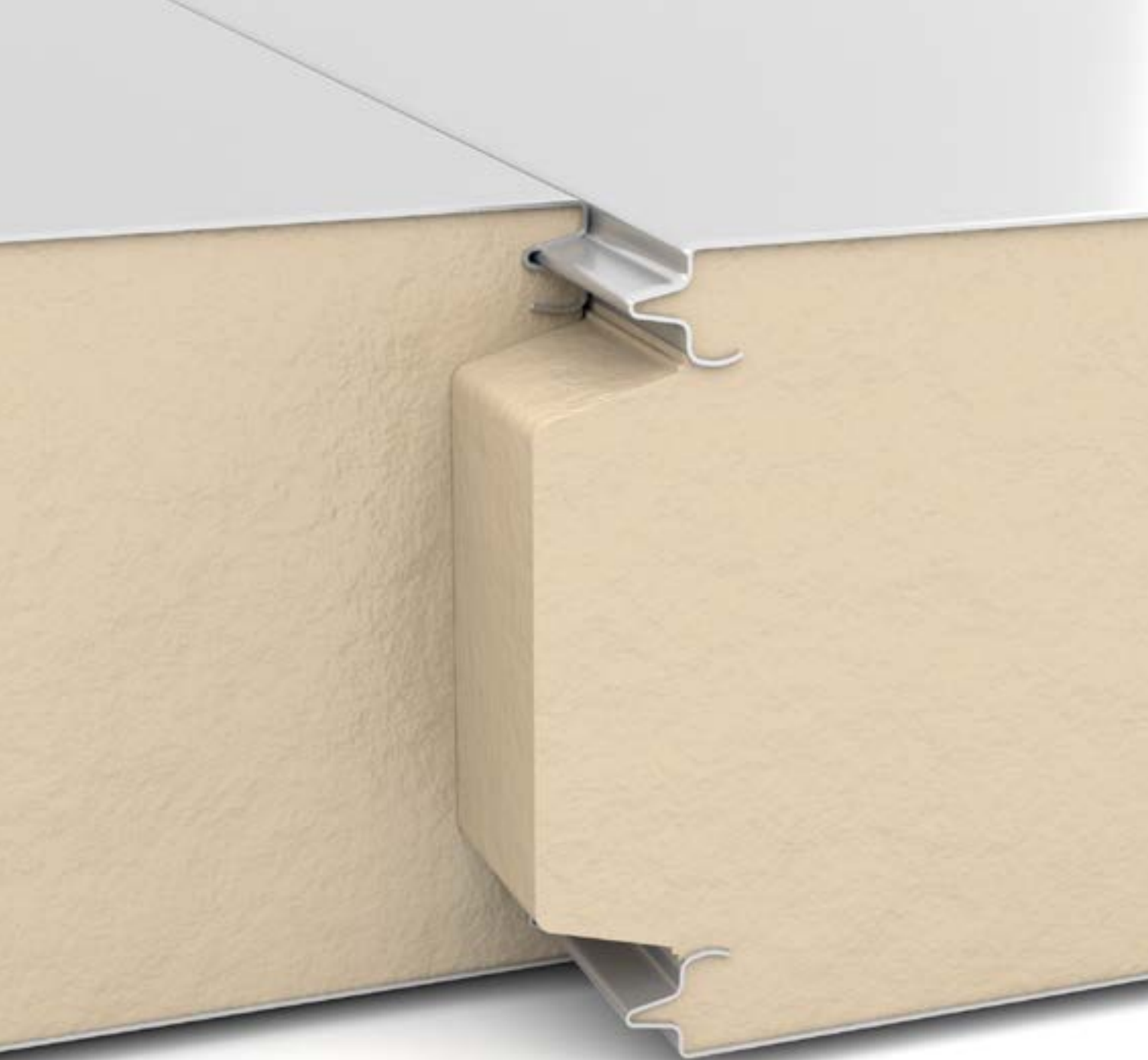




ULTRA-EFFICIENT TECHNOLOGY FOR REFRIGERATION SANDWICH PANELS





**FRIGOPAP+
with QUANTEC
technology**

**A true panel
for refrigeration
applications**

*We present a new
technology.
A step ahead in thermal
insulation.*



ONE OF THE MOST MODERN, AUTOMATED AND INNOVATIVE FACTORY DEDICATED TO ISOTHERMAL REFRIGERATION

PAP was born with the joint effort of experienced companies in the refrigeration panel industry, incorporating more than 50 years of market and installation knowledge.

Together they setup this unique project, bringing in the technology and human expertise to achieve what is now **the most innovative refrigeration panel unit with the best performance of the market.**



A product with an exclusive **triple-panel joint** and a **perfect joint seal**, unique in the market, assuring once installed, a **perfect thermal protection improving insulation and energy loss.**



Complemented with a chemical expertise in optimising the insulation formulas **grants our panel the cutting-edge of microcellular insulation.**



These are the unique technical characteristics that define QUANTEC, achieving **the best conductivity coefficient of the market** ($\lambda = 0,0169 \text{ W/m}\cdot\text{K}$).

QUANTEC – Guarantee of an exceptional thermal insulation



Quantec also assures a market top fire protection, translated in world premium certifications: **FM (4882, 4880 and 4881)**, Euroclass **B-s1 d0** and fire resistance **E120/EI60**.

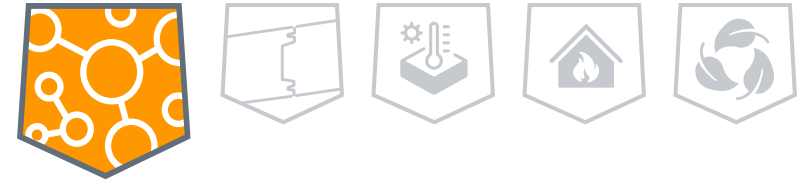


Quantec contributes to reduction of carbon footprint, complemented by reduction of CO2 emissions of our plant-



ECOEFFICIENT INSULATION
QUANTEC[®]
TECHNOLOGY

 PAP



New ultra-efficient Poly-Iso Formula

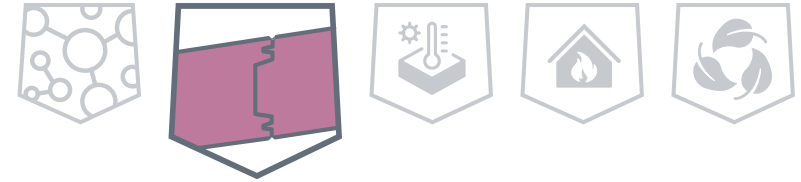
QUANTEC's cutting edge microcellular insulating material is one of the most advanced and sustainable in the world, guaranteeing its insulating properties **for more than 50 years ***.

* BLP Certified for Durability Assessment.



ECCOEFFICIENT INSULATION
QUANTEC[®]
TECHNOLOGY





A panel created for the refrigeration industry

For demanding refrigeration applications, a panel designed exclusively for it.

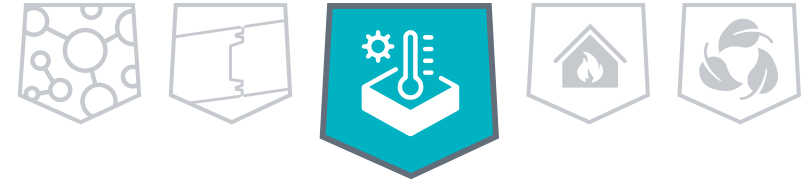
The QUANTEC joint is unique thanks to its grinded finish and its triple-joint shape that provides maximum mechanical resistance.

The direct connection of polyurethane between two panels creates a **perfect thermal barrier**.

This panel is also designed to maintain **the tightness of the enclosure, achieving the highest thermal efficiency and offering great mechanical and chemical resistance.**

ECCOEFFICIENT INSULATION
QUANTEC[®]
TECHNOLOGY

 **PAP**



The highest thermal efficiency of the market

Thermal conductivity - $\lambda = 0,0169$ W/mK

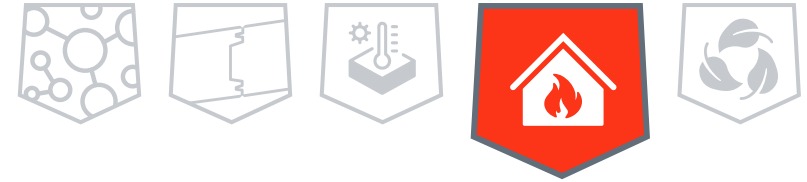
thanks to QUANTEC formula of cutting-edge Poly-Iso microcellular insulating material for **maximum thermal efficiency.**



High thermal efficiency brings multiple benefits, such as reducing **energy consumption and the carbon footprint.**

ECEFFICIENT INSULATION
QUANTEC[®]
TECHNOLOGY

 **PAP**



Maximum fire protection

Offering the **FM 4882** certification as **only Iberian manufacturer** of refrigeration panels - and without height limit - corresponding to smoke-sensitive facilities with food or pharmaceutical production and storage requirements.



EUROCLASS Reaction to Fire Certification:
B-s1, d0

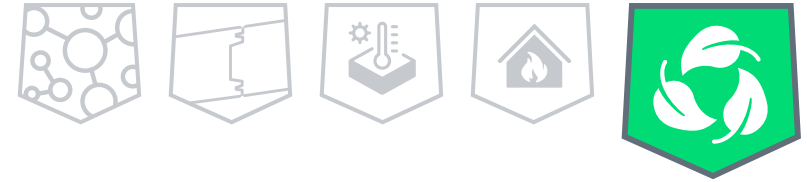


Fire Resistance Certification:
Ei 60 (with maximum height 7.5m, test failure at minute 87')
E120 (with maximum height 7.5m)

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 **PAP**



Ecological awareness and green building



Panels compliant with **LEED and BREEAM** construction certifications for environmental sustainability



We collaborate in the **European polyurethane recycling program “Life Repolyuse”**



GREEN ENERGY

Manufacturing with **100% renewable energy**



ISO 14001 and **Carbon Footprint** environmental certifications



EPD available (Environmental Product Declaration)

ECEFFICIENT INSULATION
QUANTEC[®]
TECHNOLOGY



PAP



Quality backed
by world-class
accreditations

Our refrigeration panel is certified with



and is manufactured according to **EN 14509**.

PAP has **ISO 9001** and **ISO 14001** certifications,
including **Carbon Footprint** registration.





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