



Insulated Panels **Polyisocyanurate**

Functions

Fire rated PIR wall and ceiling panels can be used in all hygienic cold, chill and ambient environments. The panel provides a particularly effective solution in cold environments and can withstand internal temperatures between 0°C and - 40°C, and where fire resistance, excellent thermal insulation and hygiene are essential.

Nucleus

Manufactured from a MDI, polyols and a blowing agent (ODPZero) to produce highly crosslinked polymers with a closed cell structure. PIR is one of the most efficient insulating materials available. It has low density and it's rigid foam exhibits superior thermal stability, resulting in lower combustibility when compared to polyurethane foams. PIR has outstanding thermal conductivity and is ODP0 and does not support the growth of fungi, is moisture resistant and has no airborne fibres, making it an efficient and effective material in high specification food installations.

Fire Performance

PIR is recognised within the industry as being a fire safe alternative to other foam panels including polystyrene and polyurethane. The thickest PIR provides fire resistance for up to 1 hr.

Loss Prevention Certification Board Approved

Tested to LPS Fire Performance standards 1181 & 1208

In order to achieve these standards tests BS476 Part 22E need to be satisfied.30/60 mins

Finishes

There are a wide range of finishes available ranging from foodsafe laminate, polyester, PVF2, HPS200.

Jointing

The panels have high performance male and female interlocking metal facings to provide a secure and consistent joint detail. The interlocking joint, sealed with silicone, encapsulates the core ensuring total parity and a continuous antibacterial barrier.



Technical Specifications

Panel Thickness	50mm – 200mm
Max Panel Length	18m
Max Wall Height (single span)	14m
Max Ceiling Span (unsupported)	11m
Panel Weight	11.2 - 17 kg /m ²
Fire Rating (LPS 1208 / BS476 Part 22E)	30 – 60 mins
U Value (w / m ² k)	0.10 – 0.40