

Polyisocyanurate (PIR) panels

When it comes to all round panel performance, PIR is tough to match. Panels deliver insurer approved levels of fire resistance, an impressive strength to weight ratio, hygiene and temperature control, plus fast build times.



Applications

For over 20 years PIR panels have been used as internal walls, ceilings and linings, as well as for external envelopes. PIR is one of the most efficient insulating materials around. Its low-density rigid foam gives it increased fire performance, lower combustibility and high insulation levels. In fact, temperatures as low as -40° can be maintained.



Core

Specify this system and it will virtually eliminate the risk of mould and bacterial growth thanks to its ability to repel water and vapour. PIR panels are also fibre free, so there's no risk from airborne contamination. Engineered joints give excellent air tightness for further protection. Lengths of up to 18m give you more flexibility in design and can speed up construction.



Facing

Panels are finished with steel facings. A choice of coatings include: Foodsafe laminate/polyester, PVF2 and HPS200.



Fire protection

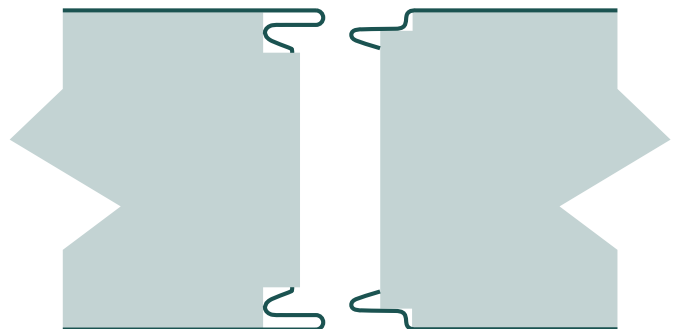
Cores provide fire resistance of up to 1 hour. When exposed to flame, PIR forms a strong, carbonaceous char that protects the core foam from ignition. PIR is recognised by the industry as the fire safe alternative to other foam cores, including polyurethane.

- Approved by the Loss Prevention Board
- LPS Fire Performance Characteristics 1181 and 1208 Issue 2 FR30 – FR60
- BS476 Part 22E 30/60 Minutes



Jointing

The panels have high performance, interlocking metal facings, to provide a secure and consistent joint. These are sealed with silicone for a continuous anti-bacterial barrier.



Technical specifications

Panel thickness	50mm – 200mm
Max panel length	18m
Max wall height (unsupported)	14m
Max ceiling span (unsupported)	11m
Panel weight	10.3 – 17kg/m ²
Fire Rating	LPS1208 30 - 60 minutes
U Value	(W/m ² K) 0.40 – 0.10

Mineral Fibre panels

For leading fire resistance and hygiene, Mineral Fibre panels are the ideal choice for wall applications, especially coldrooms, hygienic environments and firewalls.

Applications

Used regularly for wall and ceiling installations for temperatures above 0°C, they offer the optimum balance between performance, cost and weight.

Core

Mineral Fibre is a high performance, non-combustible bonded Rockwool. With fibres running vertically it provides high shear, compression and tensile strengths. Panels give impressive levels of insulation, excellent fire resistance and soundproofing properties.

The Rockwool core is water repellent, free of (H) CFC's and fully recyclable. Completely vermin and rot proof and virtually eliminates the growth of fungi, mould or bacteria.

Facing

Panels are finished with steel facings. A choice of coatings include: Foodsafe laminate/polyester, PVF2 and HPS200.

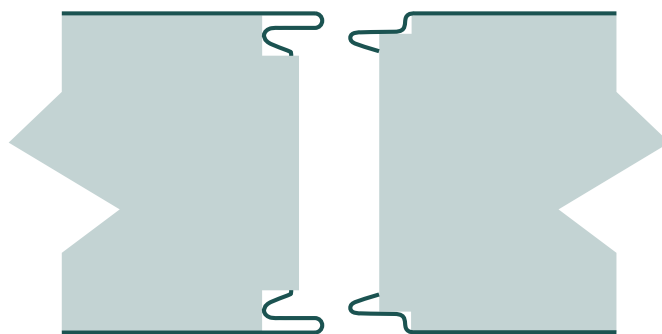
Fire protection

Mineral Fibre is a non-combustible core providing fire resistance of up to 4 hours.

- Approved by the Loss Prevention Board
- LPS Fire Performance Characteristics 1208/1181 Part 2 FR30– FR240
- BS476 Part 22E 30/60/120/240 Minutes

Jointing

The panels have high performance, interlocking metal facings, to provide a secure and consistent joint. These are sealed with silicone for a continuous anti-bacterial barrier.



Technical specifications

Panel thickness	60mm – 200mm
Max panel length	14m
Max wall height (single span)	11.5m
Max ceiling span (unsupported)	8.2m
Panel weight	15.5 – 38kg/m ²
Fire Rating	LPS 1208/1181 Part 2, BS476 30 Part 22E, EN 1364 Part 1, EN 13501-2. 30 - 240 minutes
U Value	(W/m ² K) 0.72 – 0.21
Max acoustic property	30 SR I (db)