



SPECIALIST PANELS UK LTD

Data sheet 4

PIR (Polyisocyanurate) Cored Panels

Isowall PIR Cored Panels

Isowall's PIR (polyisocyanurate) panels are made from fully cured foam slabs thereby ensuring they are flat and not subject to further shrinkage when cut.

Besides being a high insulating material ('k' value of 0.024 w/m°C) it is also CFC and HCFC free ensuring an ODP (Ozone Depletion Potential) of zero.

Even though PIR is not non-combustible, it does not burn in the same way as other foams such as polystyrene and polyurethane.

PIR when subject to fire forms a carbonaceous layer which retards further flame spread and penetration.

Isowall PIR Panel Load / Span Tables

'u' values w/m ² °C	Weight (Kg/m ² t)	Thickness (mm)	Max Wall Height (m)	Max 'Walk on' Ceiling Span (m)
0.44	11	50	4.5	3.0
0.27	12	75	6.0	4.5
0.22	13	100	7.0	5.6
0.176	14	125	8.0	6.7
0.146	15	150	10.0	7.8
0.126	16	175	11.0	8.9
0.11	17	200	12.0	10.0
0.09	19	250	13.0	11.0

Isowall™



Typical Physical Properties
Polyisocyanurate

		Unit	
Density	40 (±3)	kg/m ³	EN 1602
Thermal Conductivity 10°C (λ,d)	0,024	w/mk @ 10°C	prEN 13165
ODP	0	-	-
Compressive Strength	> 240	kPa	EN 826
Tensile Strength	> 350	kPa	BS 4370;part 2 method 9
Closed Cell Constant	> 90	%	EN-ISO 4590
Water Absorption	< 2	Vol %	EN-ISO 1609
Fire Behavior	B2 < 30 M3	mm	DIN4102, T.1 ISO 3582 NFP 92.501
Dim Stability 70°C/97% RH -40°C ambient RH 100°C ambient RH	< 2 < 2 < 2	B2 < 30 M3	T1 ISO 35482 NFP 92.501
Linear coefficient	50.10 ⁻⁶	m/mK	
Operating Temperature	-120 to +120	°C	



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