

# Technical Data Sheet

## PIR CN WALL PANELS

Updated: 30.05.2024



### PRODUCT DESCRIPTION

Our PIR wall panels are used in cold storage, food preparation and clean rooms, or any application where superior insulation is required with a FM Global 4881 Fire retardant.

Core:	PIR (Polyisocyanurate) 45km/m <sup>3</sup>
Width (cover mm):	Wall: 1100mm,
Thickness (mm):	50, 100.
Length:	Up to 6.0m
External Material:	0.5mm Al-Zn Coated Steel
External Colour:	Surf mist



#### NOTES:

This span table labelled Internal Cold Storage applies for cold storage constructed wholly within a larger enclosed building.

Panel thicknesses of not less than 100mm are recommended for chillers.

Check 'R' value for insulation requirements.

Self-weight of the panel has been allowed for, plus an allowance of up to 10kg/m<sup>2</sup> for light duty fittings (lights, etc.). No other dead loads permitted.

Non-trafficable maintenance access (concentrated load) of 140kg on any one panel has been allowed for.

#### Wall Panel Properties

Thickness (mm)	50	100
Mass (kg/m <sup>2</sup> )	9.8	13.25
R-value m <sup>2</sup> K/W @ 23°C	2.25	5.0

#### (1 & 2 Span) Internal Cold Storage - Maximum Span (mm)

Thickness (mm)	50	100
Walls (non-load bearing)	3600	5700
walls (load bearing)	3500	5500

#### (3 or more Span) Internal Cold Storage - Maximum Span (mm)

Thickness (mm)	50	100
Walls (non-load bearing)	3500	5500
walls (load bearing)	3400	5350

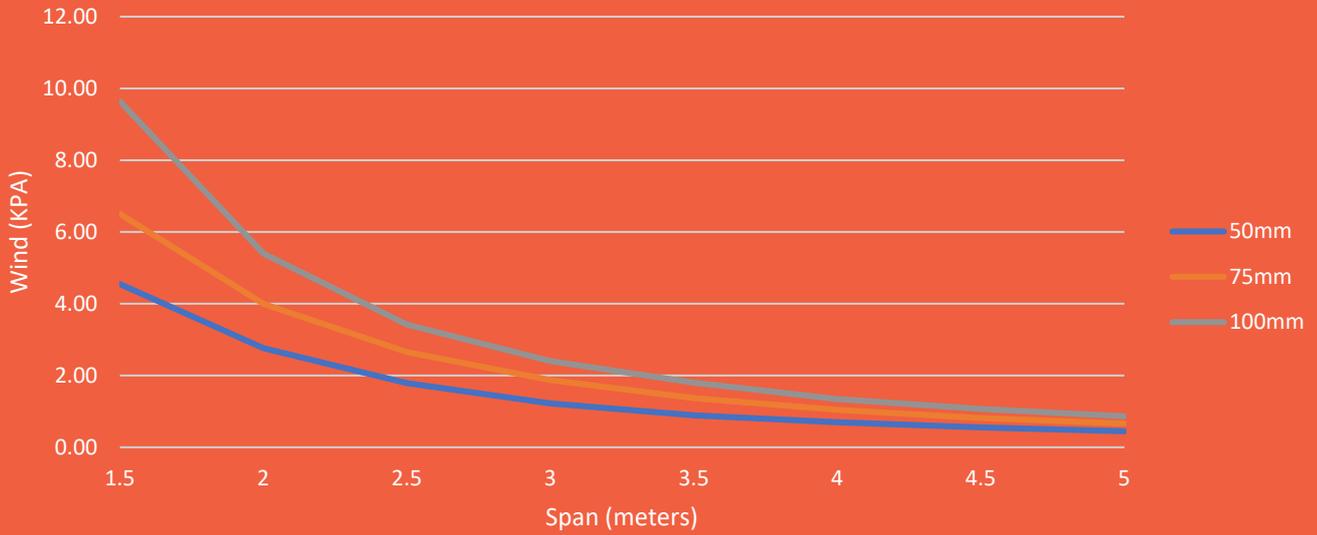
### Span Tables Wall Panels (NON-CYCLONIC REGIONS A&B)

Maximum uniformly distributed ultimate wind load (kPa) for the given span:

Internal/External (Wall Panels - 1 or 2 Span)		
Span (m)	50mm	100mm
1.5	4.55	9.64
2	2.76	5.40
2.5	1.79	3.42
3	1.22	2.40
3.5	0.89	1.80
4	-	1.34
4.5	-	1.07
5	-	-

Internal/External (Wall Panels - 3 or more Span)		
Span (m)	50mm	100mm
1.5	3.79	8.03
2	2.3	4.5
2.5	1.49	2.85
3	1.02	2
3.5	0.74	1.5
4	-	1.12
4.5	-	0.89
5	-	-

### Internal/External Wall (1 & 2 Span)

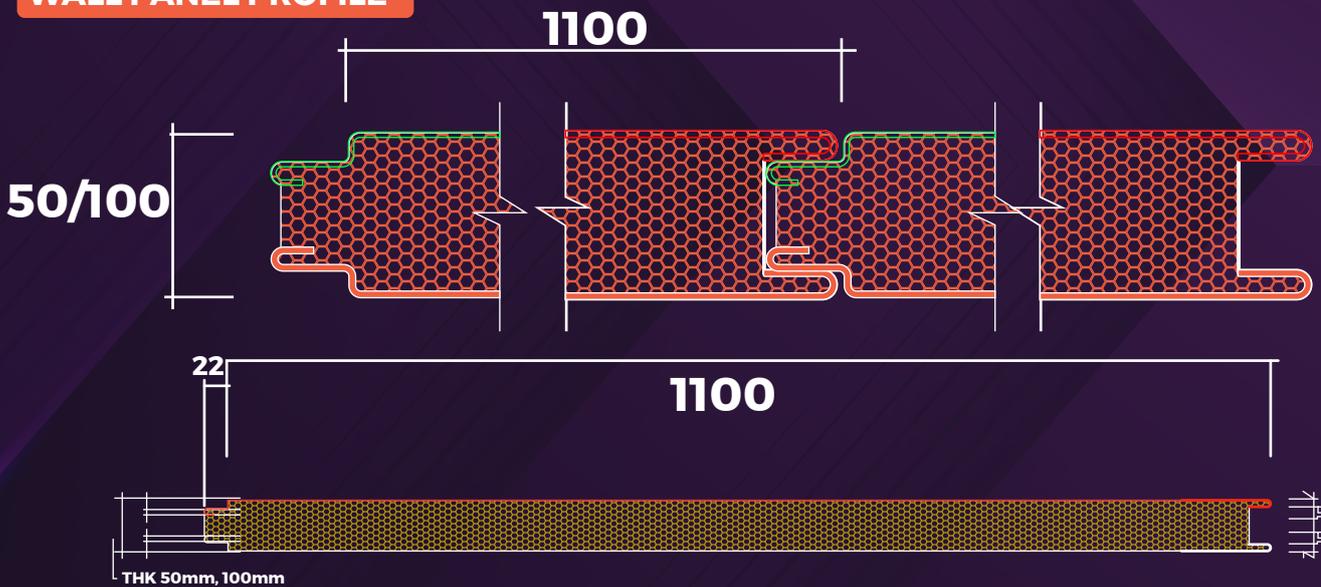


### Internal/External Wall (3 or more Span)



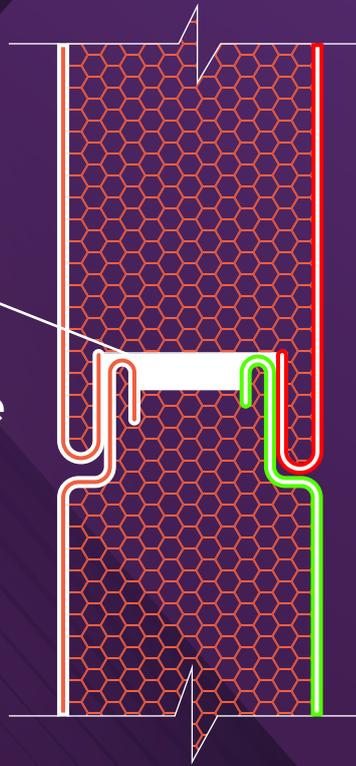
**NOTES:** Self-weight of the panel has been allowed for, plus an allowance of up to 10kg/m<sup>2</sup> for light duty fittings (lights, etc.). No other dead loads permitted. Pressures specified are for wind gusts only per AS/NZS 1170.2

### WALL PANEL PROFILE



Service Duct

\*Not to Scale

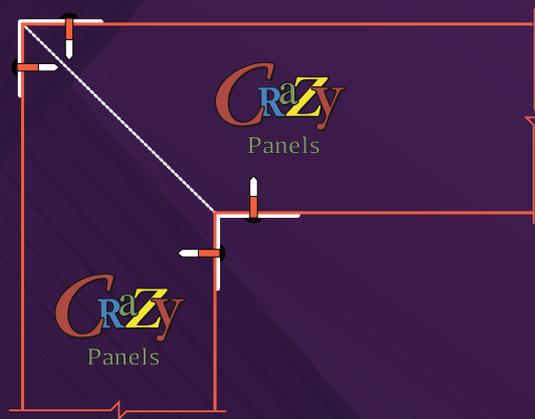


**PANEL JOINS FOR COOL ROOM APPLICATIONS**

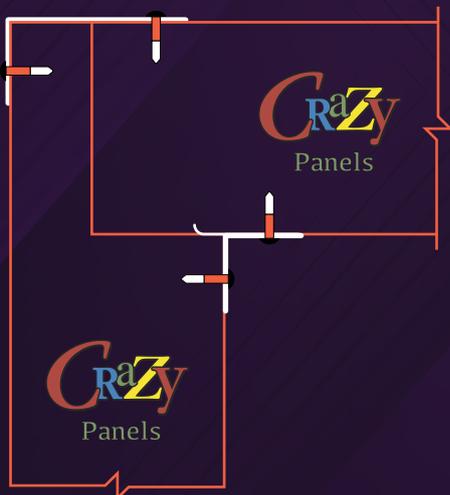
**Floor to Wall Connection**



**Wall to Wall Corner**



**Ceiling to External Wall**



**Panel to Panel Connection**

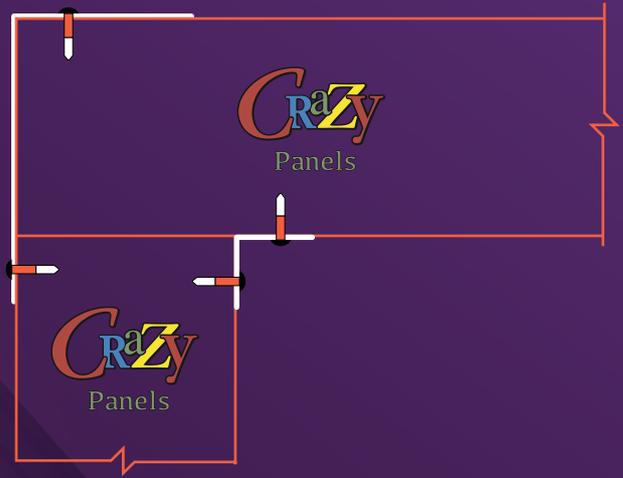


**ALTERNATIVE PANEL JOINS FOR NON-COOL ROOM APPLICATIONS**

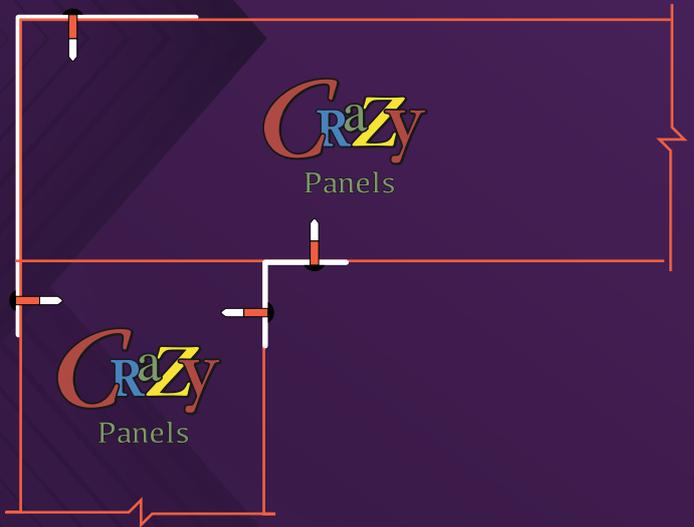
**Floor to Wall**



**Wall to Roof (Side View)**



**Wall to Roof (Top View)**



**Panel to Panel**



**FM Global 4881 Certificate**



1300 543 336  
 admin@crazypanels.com.au

www.crazypanels.com.au  
 97 SHEFFIELD ROAD, WELSHPOOL, WA, 6106.