

# Technical Data Sheet

## EPS CN WALL PANELS

Updated: 22.04.22



### PRODUCT DESCRIPTION

Our EPS wall panels are used in cold storage, food preparation and clean rooms. Other applications include transportable offices, wall partitions and many other applications.

Core:	EPS (Expanded Polystyrene) 16kg/m <sup>3</sup>
Width (cover mm):	Wall: 1100mm,
Thickness (mm):	50, 75, 100.
Length:	Up to 6.0m
External Material:	0.5mm Al-Zn Coated Steel
External Colour:	Surf mist



Wall Panel Properties			
Thickness (mm)	50	75	100
Mass (kg/m <sup>2</sup> )	9.25	9.4	9.55
R-value m <sup>2</sup> K/W @ 23°C	1.25	1.8	2.35
(1 & 2 Span) Internal Cold Storage - Maximum Span (mm)			
Thickness (mm)	50	75	100
Walls (non-load bearing)	3600	4750	5700
walls (load bearing)	3500	4500	5500
(3 or more Span) Internal Cold Storage - Maximum Span (mm)			
Thickness (mm)	50	75	100
Walls (non-load bearing)	3500	4550	5500
walls (load bearing)	3400	4400	5350

#### 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.

### 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	75mm	100mm
1.5	4.55	6.50	9.64
2	2.76	4.00	5.40
2.5	1.79	2.65	3.42
3	1.22	1.87	2.40
3.5	0.89	1.37	1.80
4	-	1.04	1.34
4.5	-	-	1.07
5	-	-	-

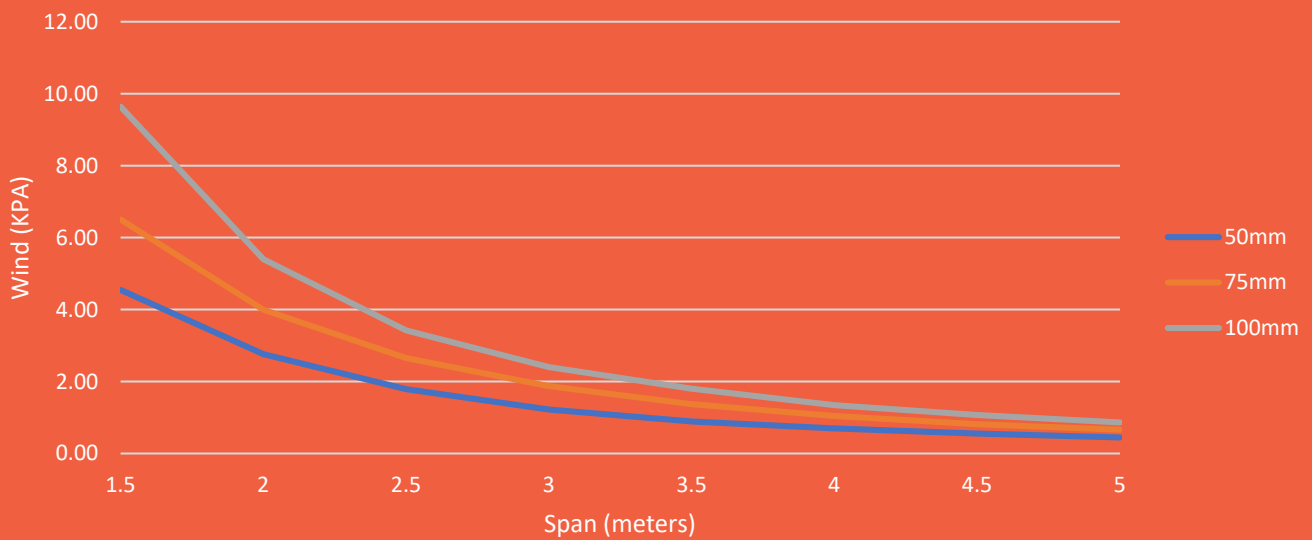
Internal/External (Wall Panels - 3 or more Span)			
Span (m)	50mm	75mm	100mm
1.5	3.79	5.42	8.03
2	2.3	3.33	4.5
2.5	1.49	2.21	2.85
3	1.02	1.56	2
3.5	0.74	1.14	1.5
4	-	0.87	1.12
4.5	-	-	0.89
5	-	-	-



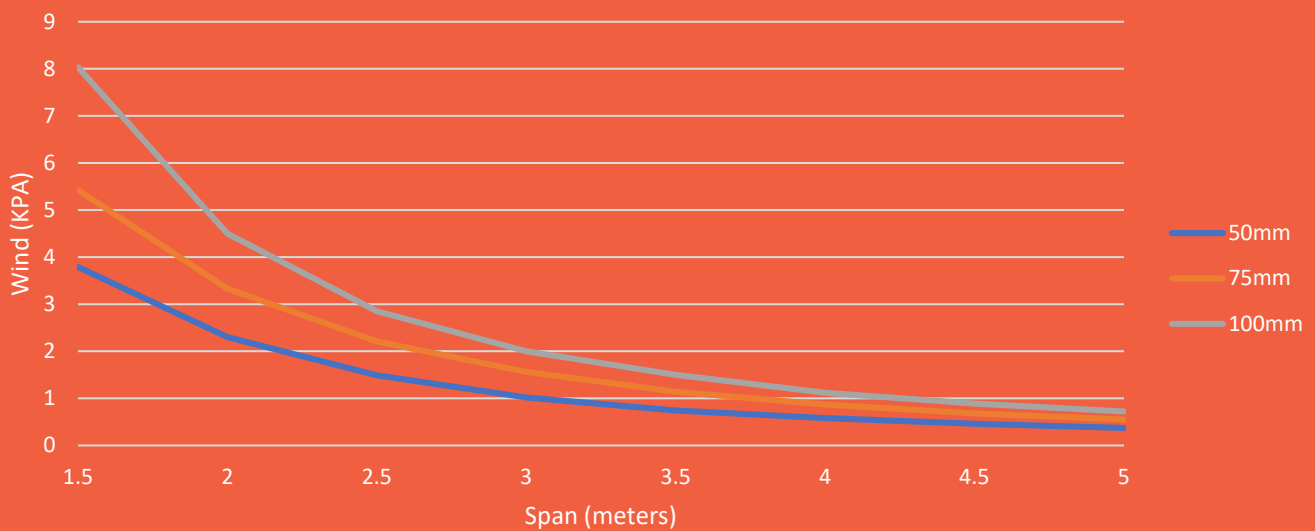
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97 SHEFFIELD ROAD, WELSHPOOL, WA, 6106.

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

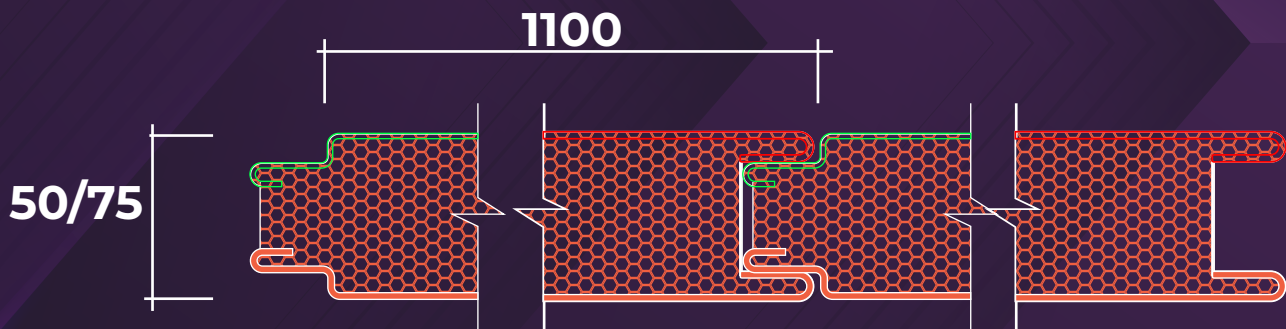


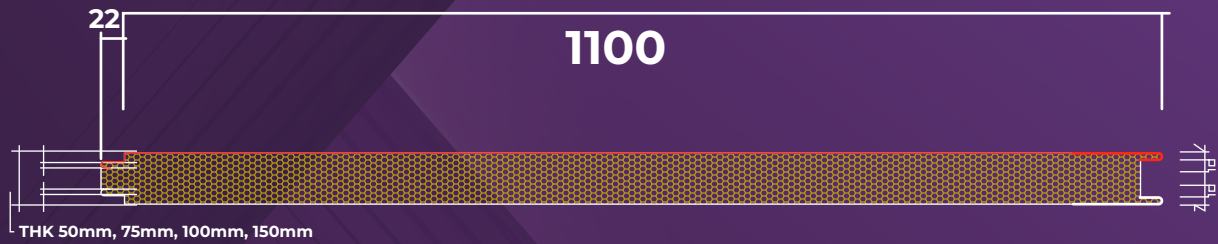
### Internal/External Wall (3 or more Span)



**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

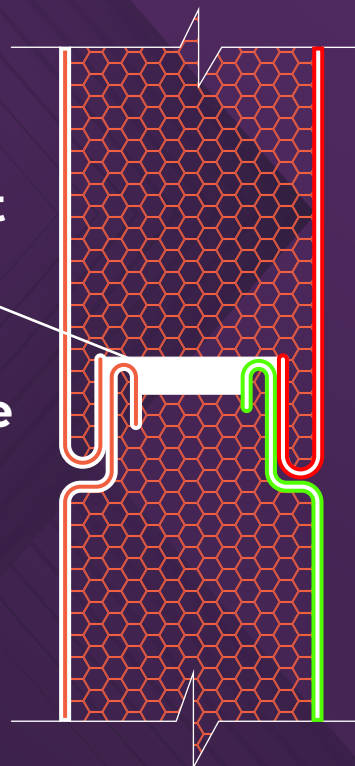
### WALL PANEL PROFILE





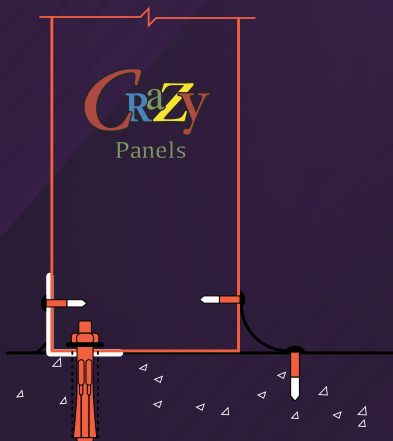
**Service Duct**

**\*Not to Scale**

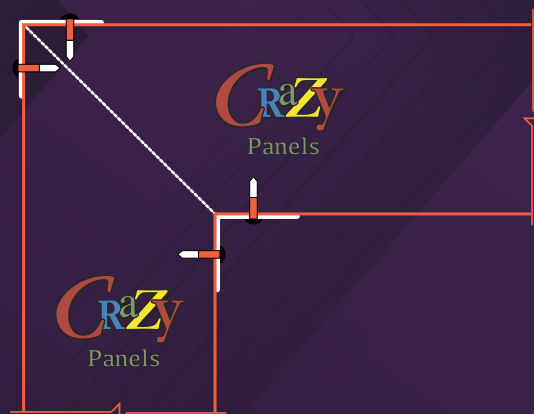


## PANEL JOINS FOR COOL ROOM APPLICATIONS

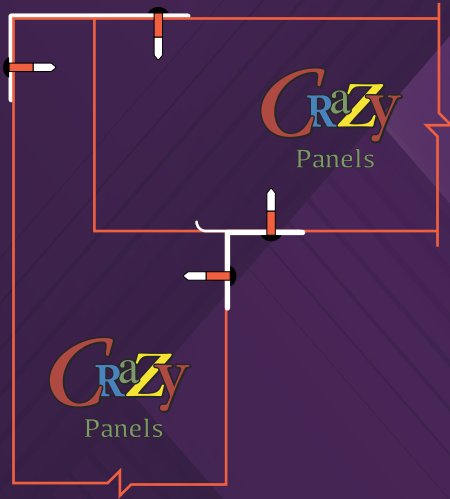
### Floor to Wall Connection



### Wall to Wall Corner



### Ceiling to External Wall



### Panel to Panel Connection

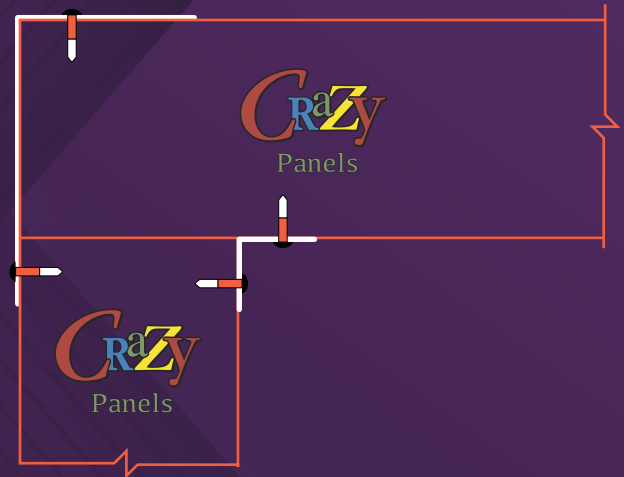


## ALTERNATIVE PANEL JOINS FOR NON-COOL ROOM APPLICATIONS

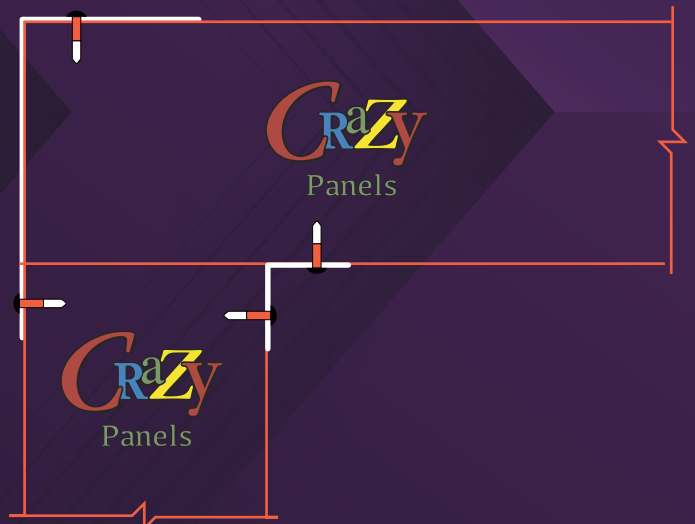
### Floor to Wall



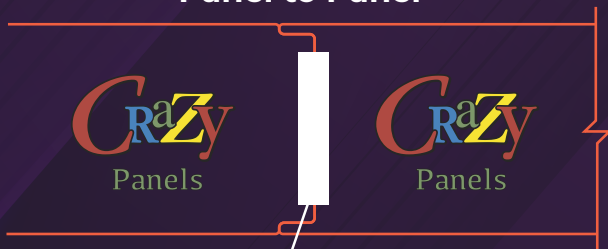
### Wall to Roof (Side View)



### Wall to Roof (Top View)



### Panel to Panel



### Service Duct