

Product Description

Crazy Panels PIR Insulated Roof Panels provide the ideal solution for your roofing needs. Embrace the future of construction with Crazy Panels.

Core:	PIR (Polyisocyanurate) 45kg/m ³
Width (cover mm):	Wall: 1000mm
Thickness (mm):	50, 75.
Length:	Up to 6.0m
External Material:	0.5mm Al-Zn Coated Steel
External Colour:	Surf mist



PIR Wall Panel Properties		
Thickness (mm)	50	75
Mass (kg/m ²)	9.8	13.25
R-value m ² K/W @ 23°C	2.5	4.4
Thermal Conductivity	0.020 W/mK	0.020 W/mK
Pressure Strength	10 N/m ²	10 N/m ²
(1 & 2 Span) Internal Cold Storage - Maximum Span (mm)		
Thickness (mm)	50	75
Ceilings (using roof panels)	3680	4212
(3 or more Span) Internal Cold Storage - Maximum Span (mm)		
Thickness (mm)	50	100
Ceilings (using roof panels)	4578	5127

NOTES:

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

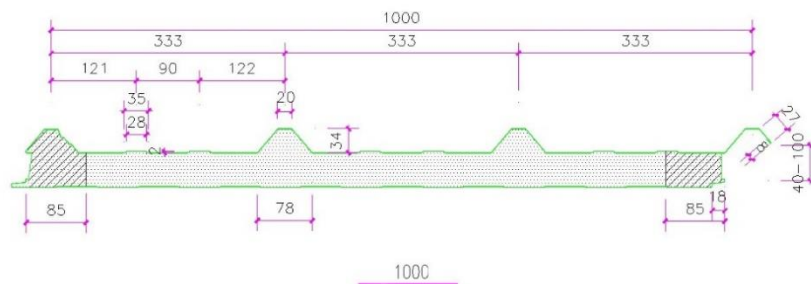
Check 'R' value for insulation requirements.

Self-weight of the panel has been allowed for, plus an allowance of up to 10kg/m² 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.

Ceiling panels fixed with minimum 14g tek screws (x4 off) or mushroom head bolts (x2 off) per fixing point are required.

Roof Panel Profile



Span Tables Roof Panels

PIR Roof panel Spanning table															
Panel thickness	K Value ($K/m^2 \cdot h \cdot ^\circ C$)	Panel weight	Spanning table												
			Single span (mm)							Double span (mm)					
			P=kg/m ²	60	80	100	120	150	200	60	80	100	120	150	200
45	0.36	11.85	L=	4354	3850	3484	3201	2871	2472	4876	4312	3902	3585	3215	2768
50	0.32	12.05	L=	4606	4070	3680	3378	3027	2602	5158	4558	4212	3783	3390	3914
60	0.27	12.45	L=	5088	4489	4054	3716	3323	2848	5698	5027	4540	4161	3721	3189
75	0.21	13.05	L=	5767	5078	4578	4190	3738	3192	6459	5687	5127	4692	4186	3575
100	0.16	14.05	L=	6818	5993	5393	4927	4385	3731	7636	6712	6040	5518	4911	4178
120	0.13	14.85	L=	7616	6690	6017	5494	4886	4152	8529	7492	6739	6153	5472	4650
150	0.11	16.05	L=	8780	7716	6943	6343	5644	4800	9833	8641	7776	7104	6321	5376

- Outer sheet: 0.6mm steel, Inner sheet: 0.5mm steel
- Panel type: Type1000

PIR Technical index

Test Item	Unit	Measured value	Standard value	Test standard
Density/Normal temp	Kg/m ³	≥ 42.9	≥ 30	ASTM, D1622, GB6343, GB/T6343-95 JC/T868-2000
Thermal conductivity	W/m · K	≤ 0.020	≤ 0.027W/m · K	ASTM C518, GB10294
Vapor transmission	Ng/Pa · m · s	≤ 3.34		GB10294-88 GB/T17146
Water absorption	g/100cm ²	≤ 0.5	≤ 4	GB/Z228, GB8810-88
Closed cell rate	%	≥ 97	≥ 90	GB10799
Compressive Strength	kPa	≥ 220	≥ 150	GB8813
Bending strengths	kN	≥ 2450	≥ 1750	GB/T8812
Continuous temp	°C	-190~150		
Fireproof rate		B1		GB8624
Maximum flame spread rate		≥ 15	≥ 25	ASTM E84
Vertical burning	(Average Burning Time)	≤ 7.96	≤ 30	GB8333
	(Average Burning height)	≤ 15	≤ 250	
Dimension stability		≤ 1%	Δ V ≤ 4%	ASTM

FM Global 4881 Certificate



Certificate of Compliance

This certificate is issued for the following:

ColorGem, ColorPod, ColorSpar, and ColorGold

Prepared for:

Shandong Wiskind Architectural Steel Co Ltd
Boxing Economic Development Zone
No. 800 Xingbo Five Road
Shandong Province, Shandong 256500
China

FM Approvals Class: 4881

Approval Identification: PR460577 Approval Granted: 15 September 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com or www.roofnav.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink that reads 'Phillip J. Smith'.

Phillip J. Smith
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