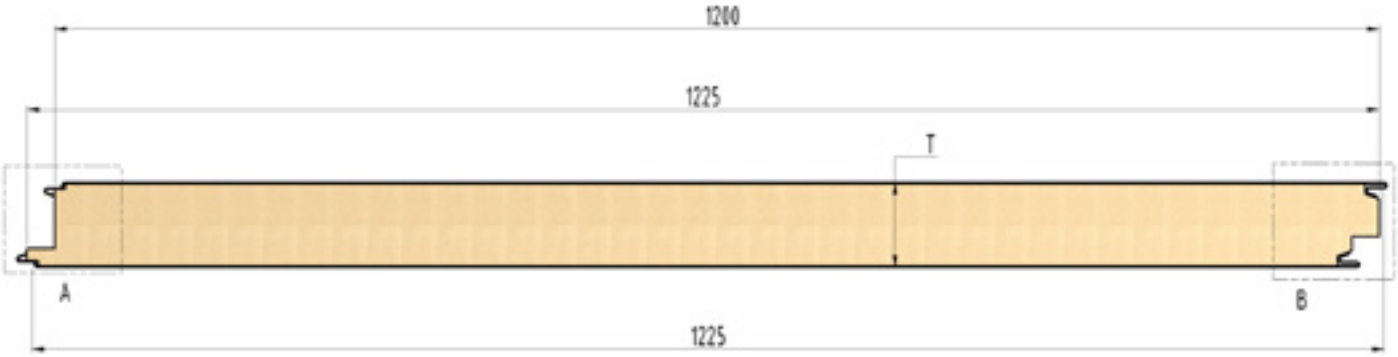
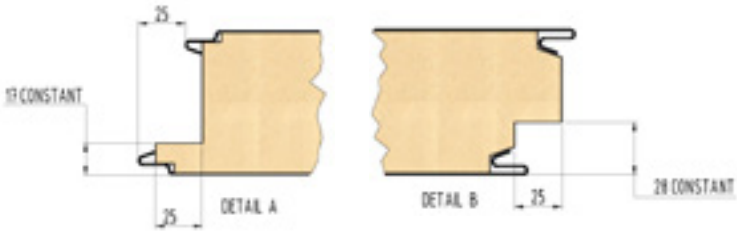
DeltaSecretFix-PIR SPECIFICATIONS

DELTA PANELS & PATIOS





DeltaSecretFix-PIR is an Insulated Wall Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a polyiscocyanurate core.

The top and bottom skins skins are offset by 25mm, this allows for the placement of the Interface locking bracket which has the dual purpose of locking the top and bottom skins together while also offering a method of secretly fixing the panel. The result is a clean exterior finish with no visible fasteners.

Profiles Available

- Smooth - As the top and bottom skins are offset it is recommended that the steel skins are left as smooth. This will ensure a perfect alignment of all skins and joins

Recommendations

- Architectural Structures
- Curtain Walling
- Clean Rooms
- Feature Walls
- Commercial Buildings
- Residential Buildings

Fire Test Certificate - AS ISO 9705

Group 1 Classification in accordance with NCC Volume One Specification BCA2005 CI.10 clause 4 determined in accordance with AS 5637.1:2015 as per BRANZ Test Report FI 6322-TT - issued 18th May 2018

Early Fire Hazard Properties AS 1530.3:1999

AWTA Test Report 18-006077 15-11-2018

Index	Test Range	External Top Skin
Ignitability	0-20	0
Spread of Flame	0-10	0
Heat Evolved	0-10	0
Smoke Developed	0-10	3

Steel Skin Details ColorBond®	Top Skin	0.40mm / 0.60mm / G300 Z275
	Bottom Skin	0.40mm / 0.60mm / G300 Z275
Max. Skin Temperature	78°C Dry Heat	
Core Material Details	Polyisocyanurate	
Thermal Conductivity AS 1366.2/ASTM C 518	0.0232 W/mK at 23°C	Test Report DI10856-001-01
Core Density	38-42kg/m³	
0.6mm Skin Weight (kg/m²)	50mm Panel	10.58
	75mm Panel	10.94
	100mm Panel	11.17
	125mm Panel	16.17
	150mm Panel	18.23
R Value @23.0°C	50mm Panel	2.16
	75mm Panel	3.23
	100mm Panel	4.31
	125mm Panel	5.39
	150mm Panel	6.47
Sheet Coverage	1200mm	
Length (mm)	Cut to Length Min of 1800mm	
Length Tolerance (mm)	5mm+/-	
Thickness (mm)	50, 75, 100, 125, 150	
Flatness Standards	0.40mm 0.60mm	Surface deformations can be apparent to the naked eye when observed in certain lighting conditions

Version Date: 15.12.2020

Delta Panels Pty Ltd
P: +61 07 3271 2170 E: info@deltapanels.com W: www.deltapanels.com A: 731 Boundary Road, Richlands, Qld 4077 ABN: 11 147 861 292

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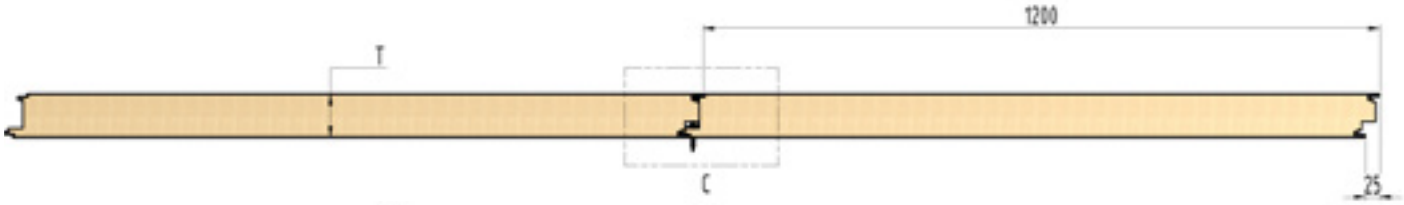

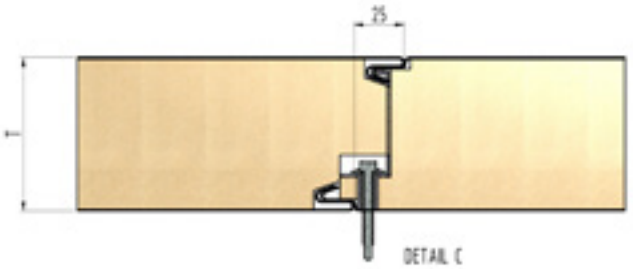

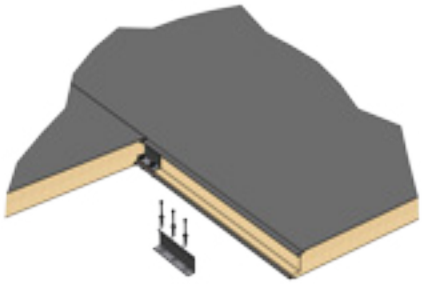

DeltaSecretFix-PIR Single Span Non-Cyclonic Tables			
Span	**Pressure (kPa)**		
mm	**50mm**	**75mm**	**100mm**
2000	1.93	2.52	3.07
2400	1.60	2.10	2.50
3000	1.17	1.62	1.93
3600	0.77	1.19	1.49
4200	0.52	0.89	1.19
4800	0.33	0.68	0.96
5400	0.25	0.55	0.82
6000	0.19	0.47	0.72

DeltaSecretFix-PIR Multi Span Non-Cyclonic Tables			
Span	**Pressure (kPa)**		
mm	**50mm**	**75mm**	**100mm**
2000	1.74	2.22	3.08
2400	1.50	1.90	2.59
3000	1.17	1.57	2.07
3600	0.90	1.27	1.68
4200	0.66	1.00	1.35
4800	0.47	0.77	1.12
5400	0.37	0.60	0.90
6000	0.31	0.48	0.69

0.60mm DeltaSecretFix-PIR Bracing Capacity			
Panel Height (m)	2.4	1.2*	4.8*
Kn/m	5.0	10.0	2.5
Bracing Units (BU)	100	200	50

* Figures for 1.2m & 4.8m high panels are extrapolated. It is acceptable to extrapolate Bracing Capacity heights between 1.2m & 4.8m. For heights outside of this dimension range, Diaphragm Analysis is required to establish Bracing Capacity.

Shear Load Transference - Shear load is transferred by rivets into the floor / ground surface or the perpendicular walls, ceiling & roof at a rate of 1.21 kN per 4.0 mm diameter rivet.

Fixing rivets at 200mm centres complies with the 20-minute flame barrier requirements and delivers 14.5 kN of shear capacity transfer per panel (6 on each side) horizontally, and 12.1 kN per metre in vertical joints. Limited by the ability of the panel to transfer the shear.

If a higher level is required, it is necessary to stitch the joints, with each 4.0mm diameter rivet providing 1.21 kN in shear in the slip joint.

DeltaSecretFix-PIR Acoustic Values			
		50mm	**125mm**
Frequency	**STC**	24.00	23.00
	RW	25.00	24.00

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