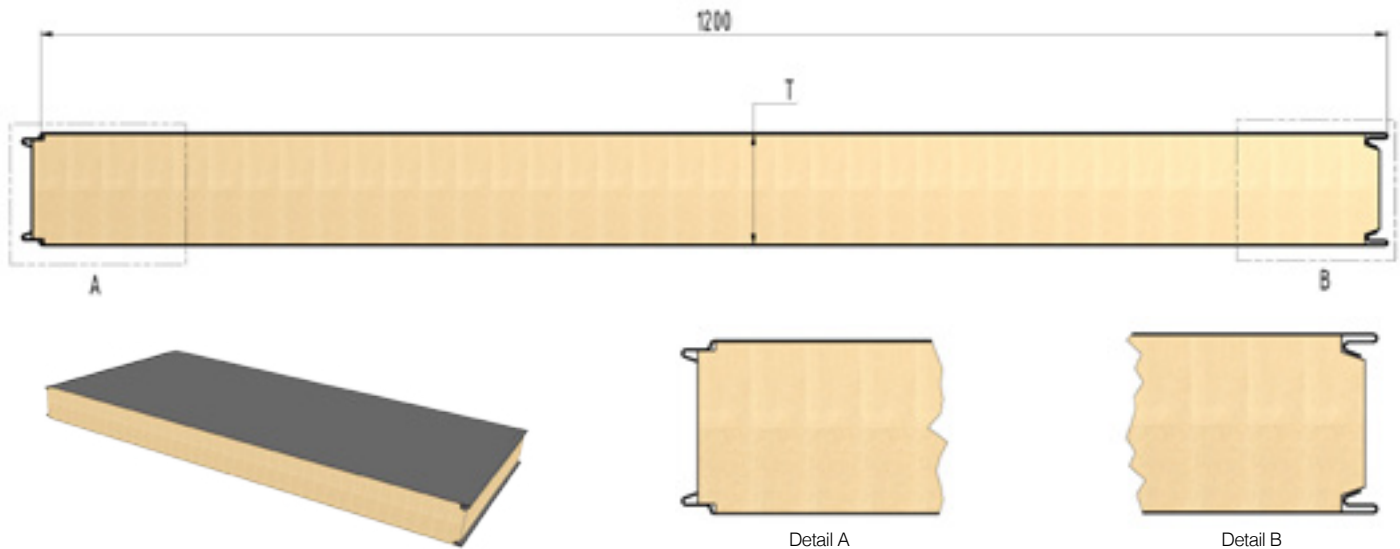




DeltaCool-PIR is a Factory Mutual Approved Insulated Wall Panel Systems, comprising of two pre-painted, roll-formed steel skins, bonded to a polyisocyanurate core.

Both skins have a roll-formed tongue and groove edge. Skins are coated with an anti-bacterial paint that inhibits the growth of bacteria.

Profiles Available

- Smooth
- Ribbed
- 5V
- SatinLine
- Mesa
- SingleV

Recommendations

- Cold Stores
- Commercial Kitchens
- Food Processing Areas
- Portable Buildings
- Home Extensions
- Spray Booths
- Wineries
- Commercial Buildings
- Residential Buildings
- Growing Rooms

Fire Test Certificate - AS ISO 9705

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

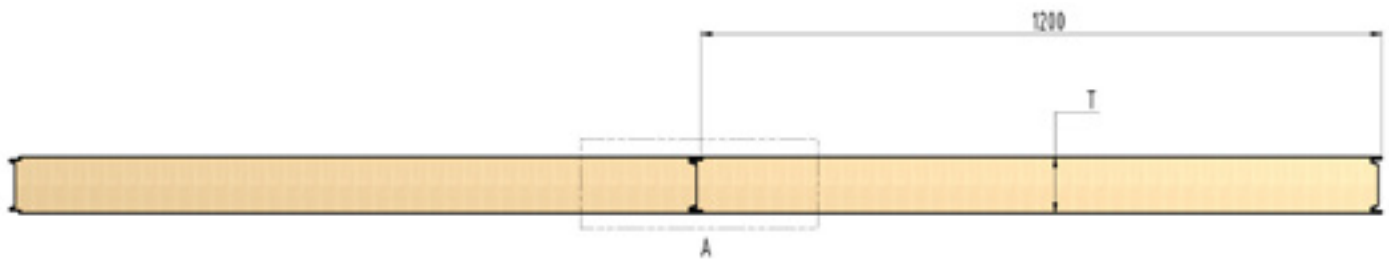
Early Fire Hazard Properties AS 1530.3:1999

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	12.58
	75mm Panel	13.88
	100mm Panel	15.17
	125mm Panel	16.17
	150mm Panel	18.23
	175mm Panel	19.23
	200mm Panel	21.29
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
	175mm Panel	7.54
	200mm Panel	8.62
Factory Mutual	Approved	
Sheet Coverage	1200mm	
Length (mm)	Cut to Length Min of 1800mm	
Length Tolerance (mm)	5mm+/-	
Thickness (mm)	50, 75, 100, 125, 150, 175, 200	
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



Detail A

DeltaCool-PIR Single Span Non-Cyclonic Tables

Span mm	Pressure (kPa)						
	50mm	75mm	100mm	125mm	150mm	175mm	200mm
2000	1.89	2.93	3.90	4.89	5.75	6.75	8.05
2400	1.68	2.57	3.43	4.35	5.14	5.97	7.06
3000	1.38	2.07	2.80	3.59	4.28	4.89	5.72
3600	1.13	1.68	2.29	2.94	3.51	4.00	4.68
4200	0.88	1.36	1.86	2.35	2.78	3.25	3.87
4800	0.66	1.04	1.43	1.80	2.13	2.49	2.97
5400	0.52	0.82	1.11	1.41	1.68	1.94	2.29
6000	0.38	0.67	0.89	1.13	1.32	1.55	1.84
6600	0.28	0.54	0.73	0.93	1.10	1.28	1.51
7200	0.16	0.45	0.61	0.78	0.92	1.07	1.27
7800	0.09	0.37	0.51	0.66	0.78	0.91	1.08
8400	0.07	0.26	0.41	0.54	0.66	0.78	0.93
9000	0.06	0.14	0.33	0.46	0.58	0.67	0.80
9600	0.07	0.24	0.39	0.52	0.64	0.76	0.90
10200	0.06	0.14	0.33	0.46	0.58	0.67	0.80

DeltaCool-PIR Multi Span Non-Cyclonic Tables

Span mm	Pressure (kPa)						
	50mm	75mm	100mm	125mm	150mm	175mm	200mm
2000	1.74	2.52	3.33	4.16	4.87	5.68	6.74
2400	1.44	2.14	2.84	3.59	4.23	4.91	5.81
3000	1.09	1.65	2.25	2.90	3.47	3.96	4.64
3600	0.89	1.35	1.85	2.40	2.89	3.28	3.83
4200	0.77	1.17	1.58	2.02	2.40	2.76	3.24
4800	0.65	0.99	1.33	1.71	2.03	2.33	2.73
5400	0.55	0.82	1.11	1.42	1.68	1.95	2.30
6000	0.45	0.65	0.89	1.13	1.34	1.57	1.86
6600	0.35	0.54	0.73	0.93	1.10	1.28	1.51
7200	0.30	0.46	0.61	0.78	0.92	1.06	1.26
7800	0.25	0.38	0.51	0.67	0.80	0.94	1.11
8400	0.20	0.32	0.44	0.59	0.73	0.86	1.02
9000	0.14	0.24	0.36	0.50	0.62	0.76	0.93
9600	0.19	0.31	0.43	0.58	0.72	0.85	1.01
10200	0.14	0.24	0.36	0.50	0.62	0.76	0.93

0.60mm DeltaCool-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.

DeltaCool-PIR Acoustic Values

Frequency		50mm	125mm
	STC	24.00	23.00
	RW	25.00	24.00