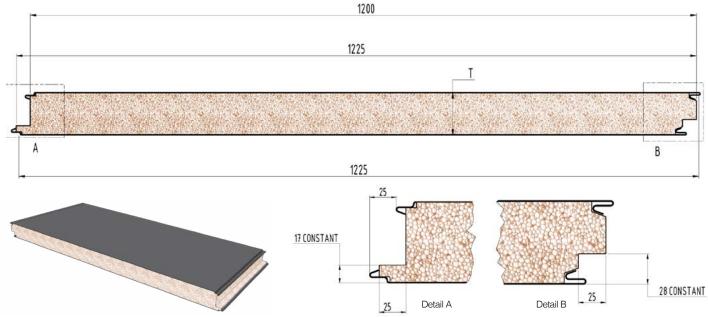
> DeltaSecretFix-TPC **SPECIFICATIONS**







DeltaSecretFix-TPC is an Insulated Wall Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a Thermosetting Phenolic Composite 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

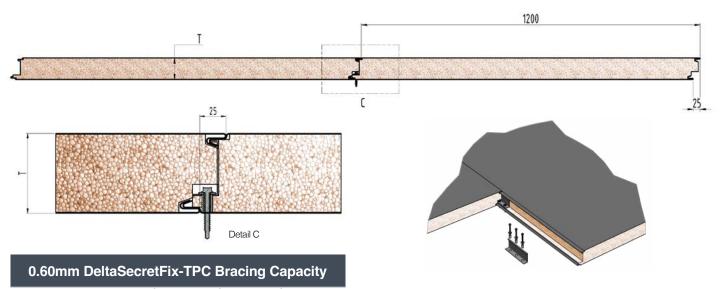
Early Fire Hazard Properties AS 1530.3:1999						
AWTA Test Report 23-000591 20-02-2023						
Index	Test Range	External Top Skin				
Ignitability	0-20	0				
Spread of Flame	0-10	0				
Heat Evolved	0-10	0				
Smoke Developed	0-10	1				

25				
Steel Skin Details	Top Skin	0.40mm / 0.60mm / G300 Z275		
ColorBond®	Bottom Skin	0.40mm / 0.60mm	/ G300 Z275	
Max. Skin Temperature	78°C Dry Heat			
Core Material Details	Thermosetting F	Phenolic Compos	te	
Thermal Conductivity AS 1366.2/ASTM C 518	Average 0.039 W/mK @23°C			
Adhesive	Thermosetting two-part adhesive			
Core Density	36kgs/m3 +/- 4 kgs			
	50mm Panel	11.70		
Panel Weight (kgs/m²)	75mm Panel	12.06		
based on 0.6mm steel skins	100mm Panel	12.43	12.43	
	125mm Panel	12.08	12.08	
	150mm Panel	13.15		
	Thickness	Winter (15°C)	Summer (23°C)	
External Wall	50mm Panel	1.46	1.41	
R Value (m ² .K/W)	75mm Panel	2.11	2.01	
AS/NZS 4859 Parts 1 & 2:2018	100mm Panel	2.76	2.61	
<u> </u>	125mm Panel	3.41	3.26	
	150mm Panel	4.06	3.86	
Sheet Coverage	1200mm			
Length (mm)	Cut to Length Min of 1800mm			
Length Tolerance (mm)	5mm+/-			
Thickness (mm)	50, 75, 100, 125, 150			
	0.40mm 0.60mm Surface deformations can be apparent to the naked eye when observed in certain lighting conditions			
Flatness Standards	0.40mm 0.60mm	" when observe	d in certain	
	0.40mm 0.60mm AU2023266264	when observed lighting condit	d in certain	

> DeltaSecretFix-TPC **SPECIFICATIONS**







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.

0.6mm DeltaSecretFix-TPC Ultimate Load Capacity / Deflection Load Table (kPa)

				<u> </u>		,		
Panel Thickness (mm)								
		50	75	100	125	150		
	1.0							
	1.5							
	2.0							
	2.5	2.75 / 1.32	4.14 / 2.44	5.53 / 1.43				
	3.0	1.90 / 0.97	2.87 / 1.86	3.83 / 2.12	4.40 / 3.49	5.60 / 4.33		
	3.5	1.39 / 0.74	2.10 / 1.45	2.81 / 2.12	3.42 / 2.81	4.11 / 3.51		
	4.0	1.06 / 0.56	1.60 / 1.15	2.14 / 1.71	2.61 / 2.29	3.14 / 2.89		
Span (m)	4.5	0.83 / 0.61	1.26 / 0.92	1.69 / 1.39	2.06 / 1.89	2.47 / 2.41		
	5.0	0.67 / 0.35	1.01 / 0.74	1.36 / 1.14	1.66 / 1.57	2.00 / 2.01		
	5.5	0.54 / 0.27	0.83 / 0.61	1.12 / 0.95	1.37 / 1.32	1.65 / 1.66		
	6.0	0.45 / 0.22	0.69 / 0.50	0.94 / 0.80	1.14 / 1.12	1.38 / 1.39		
	6.5		0.59 / 0.42	0.79 / 0.67	0.97 / 0.95	1.17 / 1.18		
	7.0		0.50 / 0.35	0.68 / 0.57	0.83 / 0.81	1.00 / 1.01		
	7.5			0.59 / 0.30	0.72 / 0.70	0.87 / 0.88		
	8.0			0.51 / 0.41	0.63 / 0.61	0.76 / 0.77		
	8.5				0.55 / 0.53	0.67 / 0.68		

The above table lists ultimate wind load pressures for strength design and the pressure corresponding to a Span/150 single span deflection for 0.6mm G300 steel skins bonded to a Thermosetting Phenolic Composite (TPC) core and in accordance with Serviceability Limit State criteria as per AS1170.0 - Table C1. The designer shall determine if Span/150 deflection ratio is appropriate for intended use. Loads for a more stringent deflection ratio can be determined by linearly proportioning the loads provided. Differential thermal effects are not incorporated in the loads provided.

As at the stated Version Date all of the information contained in this document is correct. Please check on our WebPage to ensure that you're referencing the current version.









