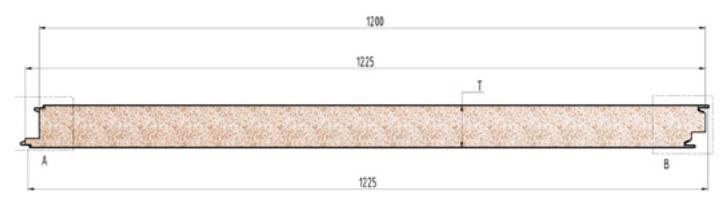
DeltaSecretFix-TPC SPECIFICATIONS



28 CONSTANT





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 Pro	perties AS	1530.3:1999

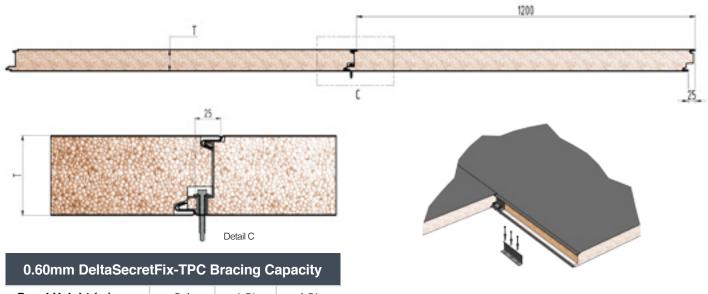
AWTA Test Report 18-006076 14-11-2018				
Index	Test Range	External Top Skin		
Ignitability	0-20	0		
Spread of Flame	0-10	0		
Heat Evolved	0-10	0		
Smoke Developed	0-10	2		

Detail A		Detail B	
Steel Skin Details ColorBond®	Top Skin Bottom Skin	0.40mm / 0.60mm / G300 Z275 0.40mm / 0.60mm / G300 Z275	
Max. Skin Temperature	78°C Dry Heat		
Core Material Details	Thermosetting Phenolic Composite		
Thermal Conductivity AS 1366.2/ASTM C 518	0.0295 W/mK @22.5°C		
Adhesive	Thermosetting two-part adhesive		
Core Density	32/34 kgs/m³		
	50mm Panel	11.5	
	75mm Panel	12.5	
0.6mm Skin Weight (kg/m²)	100mm Panel 13.2		
(9)	125mm Pane	el 14.2	
	150mm Pane	15.2	
	50mm Panel	1.7	
	75mm Panel	2.5	
R Value @ 22.5°C	100mm Panel 3.3		
© 22.0 O	125mm Pane	el 4.2	
	150mm Pane	el 5.0	
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 Surface deformations can be apparent to the naked eye when observed in certain lighting conditions		
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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)						
			Panel Thicknes	s (mm)		
		50	75	100	125	150
	1.0					
Span (m)	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
	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.





Version Date: 15.12.2020