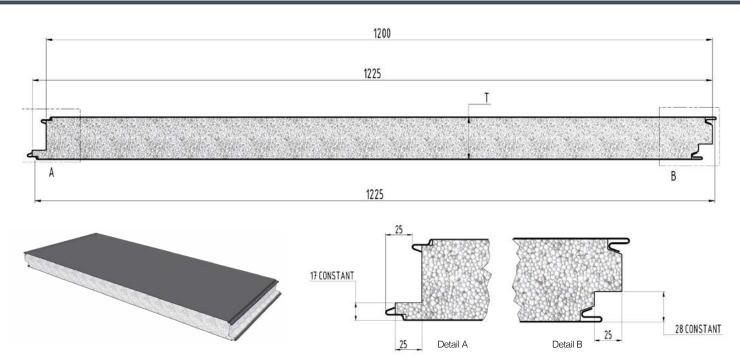
> DeltaSecretFix-EPS-FR



0.40mm / 0.60mm / G300 Z275



DeltaSecretFix-EPS-FR is an Insulated Wall Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a fire retardant grade expanded polystyrene 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 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			

Steel Skin Details	Bottom Skin	0.40mm / 0.60mm / G300 Z275			
Max. Skin Temperature	78℃ Dry Heat				
Core Material Details	Expanded Polystyrene - Fire Retardant Grade				
Thermal Conductivity AS 1366.2/ASTM C 518	Average 0.042 W/mK @23°C				
Adhesive	Thermosetting two-part adhesive				
Core Density	13.5kg/m³				
	50mm Panel	10.58	10.58		
Panel Weight (kgs/m²)	75mm Panel	10.94	10.94		
based on 0.6mm steel	100mm Panel	11.30	11.30		
skins	125mm Panel	11.66	11.66		
	150mm Panel	12.02	12.02		
	Thickness	Winter (15°C)	Summer (23°C)		
	50mm Panel	1.39	1.32		
External Wall R Value (m ² .K/W)	75mm Panel	1.91	1.81		
AS/NZS 4859 Parts 1 & 2:2018	100mm Panel	2.53	2.40		
Q 2.2010	125mm Panel	3.14	2.98		
	150mm Panel	3.70	3.52		
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			

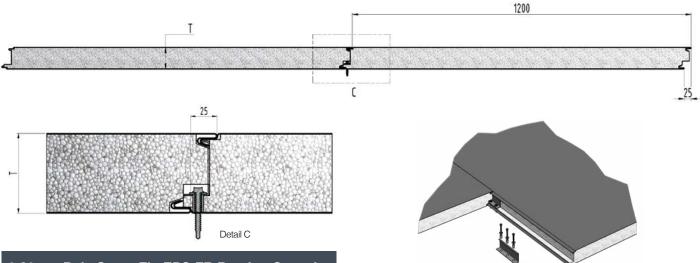
Top Skin

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> DeltaSecretFix-EPS-FR





0.60mm DeltaSecretFix-EPS-FR 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.

0.6mm DeltaSecretFix-EPS-FR Wind Pressure (kPa)								
Span		Panel Thickness (mm)						
(mm)	50mm	75mm	100mm	125mm	150mm	175mm	200mm	250mm
2000	1.84	2.92	6.11	6.11	7.35	8.01	9.21	11.55
2400	1.42	2.54	5.14	5.14	6.28	6.92	7.92	9.67
3000	0.97	1.86	3.73	3.73	4.93	5.35	6.00	7.65
3600	0.70	1.39	2.68	2.68	3.84	4.28	4.77	6.05
4200	0.51	1.06	1.96	1.96	2.87	3.33	3.79	4.81
4800	0.38	0.81	1.49	1.49	2.19	2.57	2.94	3.67
5400	0.29	0.64	1.17	1.17	1.72	2.02	2.31	2.88
6000	0.22	0.50	0.94	0.94	1.38	1.62	1.86	2.32
6600	0.17	0.39	0.77	0.77	1.14	1.34	1.54	1.91
7200	0.12	0.30	0.64	0.64	0.95	1.13	1.29	1.60
7800	0.09	0.24	0.54	0.54	0.80	0.95	1.10	1.36
8400	0.07	0.19	0.43	0.43	0.69	0.82	0.94	1.17
9000	0.06	0.15	0.35	0.35	0.60	0.71	0.82	1.01
9600	0.05	0.14	0.27	0.37	0.48	0.54	0.66	0.82
10200	0.05	0.13	0.18	0.29	0.39	0.40	0.53	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 Expanded Polystyrene Fire Retardant Grade (EPS-FR) 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.



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