

DeltaSecretFix-MW is an Insulated Wall Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a non-combustible mineral wool core.

The top and bottom 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
- Feature Walls
- Curtain Walling
- Commercial Buildings
- Clean Rooms
- Residential Buildings

Combustibility Test AS 1530.1-1994

CSIRO Report no. FNC12604 dated 8/7/2020 tested five (5) samples of the Delta Panels supplied mineral wool sample and certified that the material is NOT deemed combustible according to the criteria specified in clause 3.4 of AS 1530.1-1994.

Non-Combustibility Building Material - NCC Section C1.9

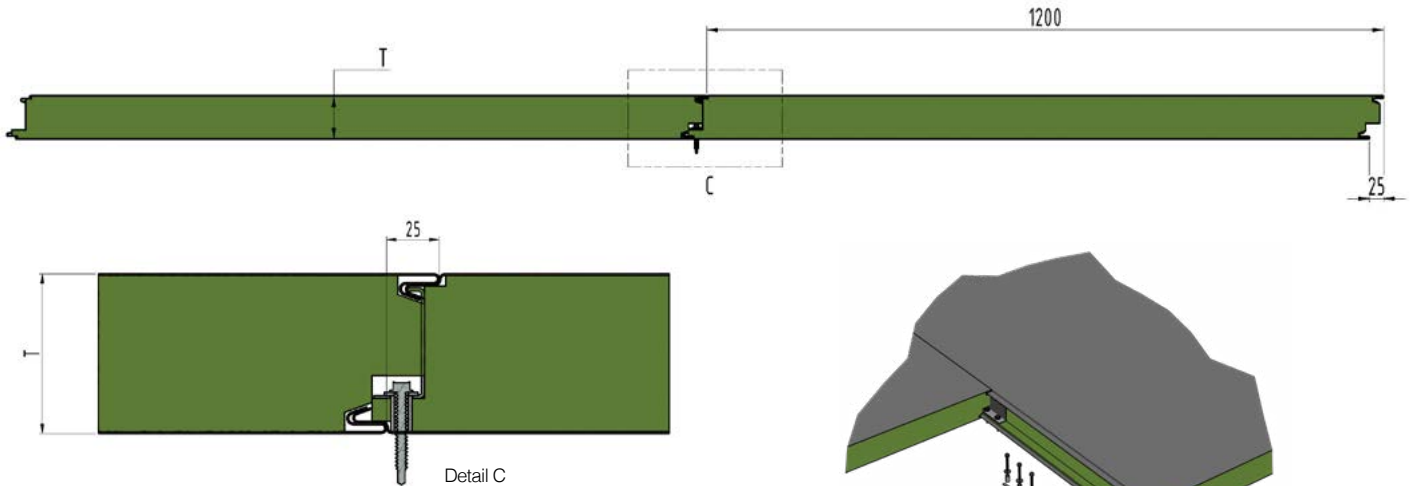
The Delta Panels laminated mineral wool products are certified, by Milanovic Neale Consulting Engineers 28/8/2020, to meet the three performance criteria in the NCC (2019) Section C1.9 (non-combustible building elements)

Early Fire Hazard Properties AS 1530.3:1999

AWTA Test Report 18-006075 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 ColorBond®	Top Skin	0.60mm / G300 Z275	
	Bottom Skin	0.60mm / G300 Z275	
Max. Skin Temperature	78°C Dry Heat		
Core Material Details	Mineral Wool		
Thermal Conductivity	0.0365 W/mK @23.0°C		
Adhesive	Thermosetting two-part adhesive		
Core Density	100kg/m ³		
0.6mm Skin Weight (kg/m ²)	75mm Panel	18.50	
	100mm Panel	21.00	
	125mm Panel	23.50	
	150mm Panel	26.00	
R Value (m².K/W) AS/NZS 4859 Parts 1 & 2:2018	Thickness	Winter (15°)	Summer (23°)
	75mm Panel	2.25	2.15
	100mm Panel	2.95	2.85
	125mm Panel	3.70	3.55
	150mm Panel	4.40	4.20
Sheet Coverage	1200mm		
Length (mm)	Cut to Length Min of 1800mm		
Length Tolerance (mm)	5mm+/-		
Thickness (mm)	75, 100, 125, 150		
Flatness Standards	0.60mm	Surface deformations can be apparent to the naked eye when observed in certain lighting conditions	



DeltaSecretFix-MW Single Span Tables

Span mm	Pressure (kPa)		
	75mm	100mm	150mm
1800	2.47	3.30	5.00
2400	1.93	2.57	4.01
3000	1.43	1.90	2.99
3600	1.18	1.57	2.40
4200	1.02	1.35	2.03
4800	0.85	1.13	1.69
5400	0.71	0.94	1.41
6000	0.60	0.80	1.20

DeltaSecretFix-MW Multi Span Tables

Span mm	Pressure (kPa)		
	75mm	100mm	150mm
1800	1.98	2.64	3.96
2400	1.55	2.06	3.09
3000	1.14	1.52	2.28
3600	0.95	1.25	1.88
4200	0.83	1.09	1.64
4800	0.71	0.94	1.41
5400	0.62	0.82	1.23
6000	0.57	0.76	1.14

DeltaSecretFix-MW Internal Application

Span mm	Pressure (kPa)		
	75mm	100mm	150mm
Walls (Non Load Bearing)	7300	8500	9600
Ceilings	3500	4500	4200

0.60mm DeltaSecretFix-MW 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.

DeltaSecretFix-MW Acoustic Values

Frequency		75mm	125mm
	STC	24.00	23.00
	RW	25.00	24.00



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.

