

**DeltaCool-MW** is an Insulated Wall Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a non-combustible mineral wool 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
- MicroRibbed
- 5V
- SingleV

### Recommendations

- Public Access Areas
- Sporting Arenas
- Stadiums and Halls
- Shopping Complexes
- Data Storage Areas
- Clean Room

### 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)

### Flameguard FRL Systems Vertical Walls

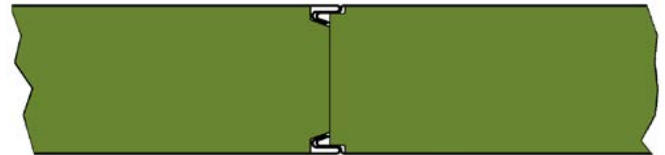
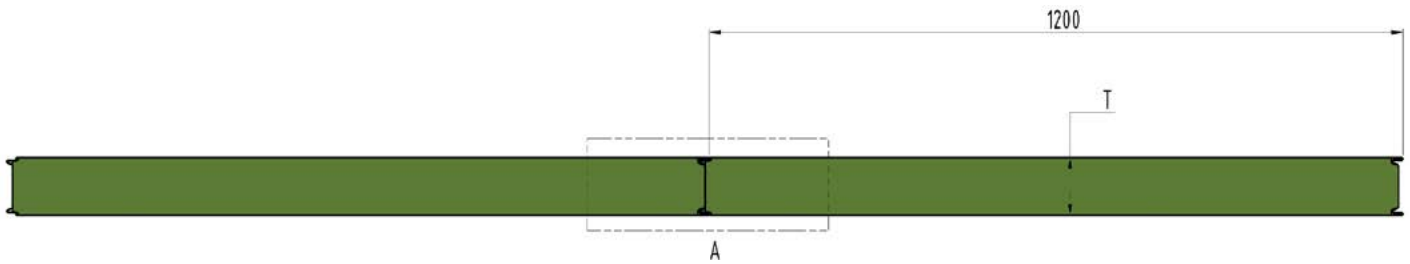
BRANZ Report Number	FR1043-001 30/10/2018
Panel Thickness	100mm
Maximum FRL	-/60/120

### Early Fire Hazard Properties AS 1530.3:1999

AWTA Test Report 18-006075 14-11-20181989

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

<b>Steel Skin Details</b> ColorBond®	Top Skin	0.60mm / G300 Z275	
	Bottom Skin	0.60mm / G300 Z275	
<b>Max. Skin Temperature</b>	78°C Dry Heat		
<b>Core Material Details</b>	Mineral Wool		
<b>Thermal Conductivity</b>	0.0365 W/mK @23.0°C		
<b>Adhesive</b>	Thermosetting two-part adhesive		
<b>Core Density</b>	100kg/m³		
<b>0.6mm Skin Weight</b> (kg/m²)	75mm Panel	18.50	
	100mm Panel	21.00	
	125mm Panel	23.50	
	150mm Panel	26.00	
<b>R Value (m².K/W)</b> 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
<b>Sheet Coverage</b>	1200mm		
<b>Length (mm)</b>	Cut to Length Min of 1800mm		
<b>Length Tolerance (mm)</b>	5mm+/-		
<b>Thickness (mm)</b>	75, 100, 125, 150		
<b>Flatness Standards</b>	0.60mm	Surface deformations can be apparent to the naked eye when observed in certain lighting conditions	



Detail A

### DeltaCool-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

### 0.60mm DeltaCool-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.

### DeltaCool-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

**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.

### DeltaCool-MW Acoustic Values

Frequency		75mm	125mm	
		STC	24.00	23.00
		RW	25.00	24.00

### DeltaCool-MW Internal Application

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



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.

