

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.

Fire Test Certificate - AS ISO 9705

Group 1 Classification in accordance with NCC 2022 Volume One Amendment 2 Clause C2D11 & Clause S7C4 determined in accordance with AS 5637.1:2015 as per Jensen Hughes test report 252674 issued 28 November 2025 & Spectra Fire Engineers report 25367 issued 25 November 2025

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)

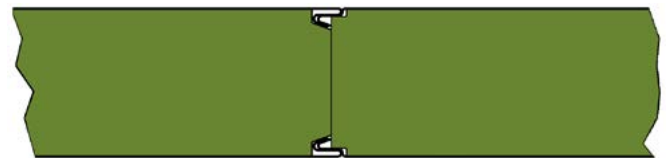
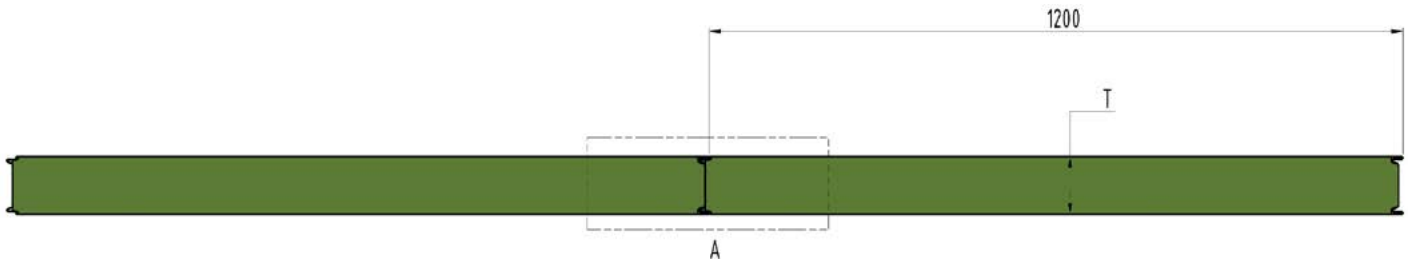
Flameguard FRL Systems Vertical Walls

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	3

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/m³		
Panel Weight (kgs/m²) based on 0.6mm steel skins	75mm Panel	18.50	
	100mm Panel	21.00	
	125mm Panel	23.50	
	150mm Panel	26.00	
External Wall 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	



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.

Acoustic Values

Acoustic Testing has been performed in compliance with the requirements of AS 1191-2002 "Acoustics - Method for Laboratory Measurement of Airborne Sound Insulation of Building Elements".

The procedures specified by AS/NZS ISO 717.1:2024 were used to calculate the Sound Transmission Class (STC) and the Weighted Sound Reduction Index $R_w = 25$ dB.

DeltaCool-MW Internal Application

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

Handling & Installation

DeltaCool-MW core material is fibrous as such it is easy to fracture the mineral wool fibres if handled and installed incorrectly. Please ensure that correct lifting equipment is used when the panels are transported and lifted into position. Refer to the Handling & Installation Manual - Wall Systems for the correct Crane & Sling Procedures.



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.

