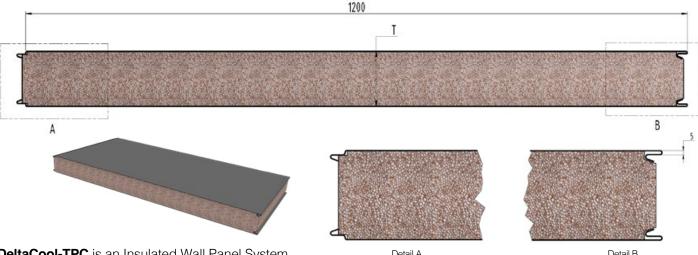
> DeltaCool-TPC









0.6mm Skin Weight

DeltaCool-TPC is an Insulated Wall Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a Thermosetting Phenolic Composite 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.

CodeMark

CodeMark Australia Certificate CM40365 certifies that DeltaCool-EPS-FR complies with the stated performance provisions of the NCC2022. Please refer to the certificate as displayed on our web page for the exact details of the compliance.



Profiles Available

- Smooth
- Ribbed
- MicroRibbed
- SingleV

5V

Recommendations

- Cold Stores
- Commercial Kitchens
- Food Processing Areas
- Portable Buildings
- Home Extensions
- Spray Booths
- Wineries
- Commercial Buildings
- Residential Buildings
- Growing Rooms

Bushfire Attack Level - BAL 29

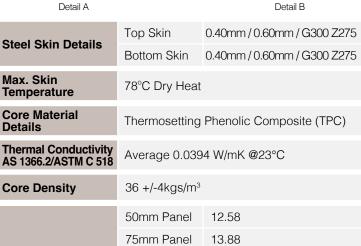
DeltaCool-TPC achieved a Bushfire Attack Level (BAL) of AA29, as per CSIRO report Number FSZ2373 issued 9 June 2023, when tested in accordance with the test method AS 1530.8.1

Fire Test Certificate - AS ISO 9705

Group 1 Classification in accordance with NCC Volume One Specification BCA2022 C2D11 & Specification 7, Fire Hazard Properties, Clause S7C4 determined in accordance with AS 5637.1:2015 as per BRANZ test report FI6323-01-2 issued 23rd February 2021

Early Fire Hazard Properties AS 1530.3 1999

| 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 | 1 | | |



13.88

| (kgs/m²) | 100mm Panel | 15.17 | | |
|--|-------------|---------------|---------------|--|
| (-19) | 150mm Panel | 18.23 | | |
| | 200mm Panel | 21.29 | | |
| | Thickness | Winter (15°C) | Summer (30°C) | |
| | 50mm Panel | 1.40 | 1.35 | |
| R Value (m ² .K/W) AS/NZS 4859 Parts | 75mm Panel | 2.05 | 1.95 | |
| 1 & 2:2018 | 100mm Panel | 2.70 | 2.60 | |
| | 150mm Panel | 4.00 | 3.80 | |
| | 200mm Panel | 5.30 | 5.05 | |
| | | | | |

| | | | 0.00 |
|---------------------------|--------------|-------------------|--------------|
| | 200mm Panel | 5.30 | 5.05 |
| Certificate of Conformity | CodeMark Aus | stralia Certifica | te - CM40365 |
| Sheet Coverage (mm) | 1200mm | | |

| • , | |
|----------------|---|
| Length (mm) | Cut to length. Minimum of 1800mm +/-5mm |
| Thickness (mm) | 50, 75, 100, 150, 200 |

Patent 2022903579 Application No.

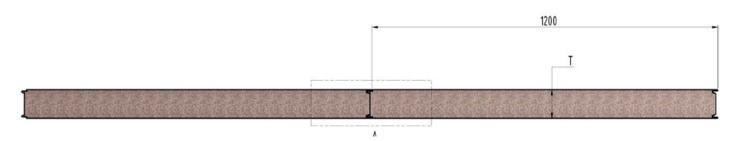
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Detail A

0.60mm DeltaCool-TPC 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 acceptabletoextrapolateBracingCapacityheightsbetween 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.

If a higher level is required, it is necessary to stitch the joints, with each 4.0mm diameter rivet providing 1.21 kN $\,$ in shear in the slip joint.

| Delta Cool TPC Panel Span Tables (mm) | | | | | | | |
|---------------------------------------|-------|--------------|--------|---------|---------|----------|-------|
| | | Freestanding | 1 Wall | 2 Walls | 3 Walls | Enclosed | Walls |
| | 50mm | 5400 | 5300 | 5300 | 4300 | 5200 | 3700 |
| | 75mm | 7100 | 7100 | 5400 | 5100 | 6300 | 4600 |
| N1 | 100mm | 7800 | 7500 | 7000 | 5600 | 7000 | 5500 |
| | 150mm | 9600 | 9600 | 7600 | 6400 | 8000 | 8400 |
| | 200mm | 10500 | 10500 | 8300 | 6900 | 8400 | 10500 |
| | 50mm | 5000 | 5000 | 4600 | 3500 | 4300 | 3700 |
| | 75mm | 7100 | 7100 | 5400 | 4100 | 5000 | 4600 |
| N2 | 100mm | 8000 | 8100 | 5800 | 4300 | 5400 | 5500 |
| | 150mm | 9600 | 9600 | 6700 | 4900 | 6200 | 8400 |
| | 200mm | 10500 | 10500 | 8300 | 6000 | 7100 | 10500 |
| N3 | 50mm | 4600 | 4600 | 3400 | 2750 | 3200 | 3700 |
| | 75mm | 5400 | 5300 | 3900 | 2900 | 3600 | 4200 |
| | 100mm | 6600 | 5700 | 4100 | 3050 | 3800 | 4500 |
| | 150mm | 8700 | 6600 | 4600 | 3400 | 4300 | 5100 |
| | 200mm | 10500 | 8700 | 5700 | 3900 | 5200 | 6600 |
| N4 | 50mm | 3600 | 3500 | 2700 | 2200 | 2500 | 2900 |
| | 75mm | 5100 | 4000 | 3200 | 2200 | 2800 | 3200 |
| | 100mm | 5400 | 4200 | 3000 | 2300 | 2800 | 3300 |
| | 150mm | 6300 | 4900 | 3400 | 2500 | 3300 | 3800 |
| | 200mm | 7800 | 6000 | 3400 | 2500 | 3300 | 4200 |

The above table lists the ultimate wind load pressure for strength design and the pressure corresponding to a Span/150 single span deflection ratio for 0.60mm G300 steel skins bonded to a Thermosetting Phenolic Composite. 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.









