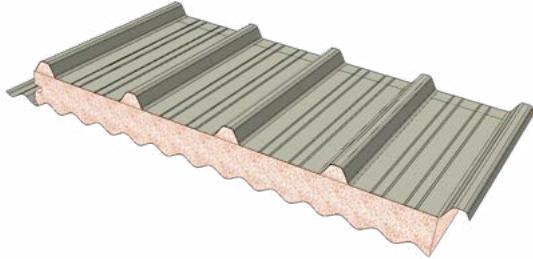


Due to the nature of the manufacturing process the actual dimensions may vary. Please refer to the stated acceptable tolerances allowances.



DeltaTrimCorro-TPC is an Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a thermosetting phenolic composite insulating core.

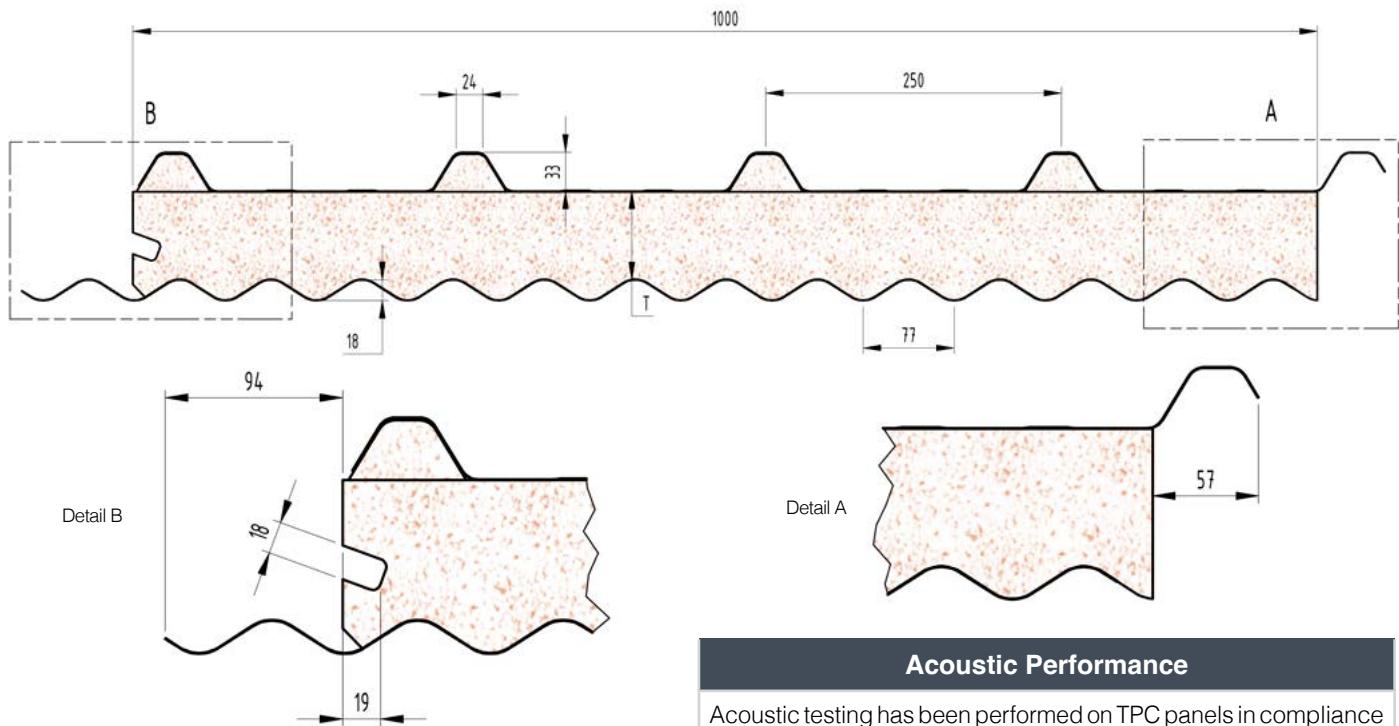
Both skins offer classical corrugated lines with all of the benefits of modern Insulated Panel technologies.

Recommendations

- Commercial Buildings
- Community Covered Areas
- Schools
- Sporting Complexes
- Covered Walkways
- Wineries
- Architectural Features
- Shopping Centres

| Single Spans (mm) | | | | | |
|-------------------|-----------------|--------------|--------------|-------------|----------------|
| Wind Category | Panel Thickness | 3 Sides Open | 2 Sides Open | 1 Side Open | Fully Enclosed |
| N2 (W33) | 75 | 7380 | 5630 | 4190 | 5250 |
| | 100 | 7500 | 68860 | 4900 | 6330 |
| | 150 | 9000 | 7780 | 5740 | 7230 |
| N3 (W41) | 75 | 5270 | 4070 | 3060 | 3810 |
| | 100 | 6360 | 4740 | 3430 | 4390 |
| | 150 | 7270 | 5570 | 4150 | 5190 |
| N4 (W50) | 75 | 3960 | 3080 | 2330 | 2880 |
| | 100 | 4590 | 3450 | 2510 | 3200 |
| | 150 | 5410 | 4170 | 3130 | 3900 |

| | | |
|---|------------------------------------|---------------------|
| Steel Skin Details | Top Skin | 0.42mm / G550 AZ150 |
| | Bottom Skin | 0.42mm / G550 AZ150 |
| Max. Skin Temperature | 78°C Dry Heat | |
| Core Material Details | Thermosetting Phenolic Composite | |
| Thermal Conductivity AS 1366.2/ASTM C 518 | 0.039 W/mK @23.0°C | |
| Adhesive | Thermosetting two-part adhesive | |
| Core Density | 36kgs/m ³ +/- 4kgs | |
| Panel Weight (kgs/m²) based on 0.6mm steel skins | 75mm Panel | 12.06 |
| | 100mm Panel | 12.43 |
| | 125mm Panel | 12.79 |
| | 150mm Panel | 13.15 |
| | 175mm Panel | 13.51 |
| | 200mm Panel | 13.86 |
| External Roof R Value (m².K/W) AS/NZS 4859 Parts 1 & 2:2018 | Thickness | Winter (15°C) |
| | 75mm Panel | 2.10 |
| | 100mm Panel | 2.75 |
| | 125mm Panel | 3.40 |
| | 150mm Panel | 4.05 |
| | 175mm Panel | 4.75 |
| | 200mm Panel | 5.40 |
| Length Tolerance | 5mm +/- | |
| Sheet Coverage (mm) | 1000mm +/- | |
| Length (mm) | Cut to Length Min of 1800mm +/- | |
| Thickness (mm) | 75, 100, 125, 150, 175, 200 | |
| Minimum Roof Pitch | 2° - Trim/Corro 3° - Corro/Trim | |
| Patent Application No. | AU2023266264 | |



Early Fire Hazard Properties AS 1530.3:1999

AWTA Test Report 23-000591 20-02-2023

| 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 |

DeltaTrimCorro-TPC Acoustic Values

| | 75mm | 150mm |
|------------|-------|-------|
| 100 | 15.41 | 15.00 |
| 160 | 16.40 | 15.09 |
| 200 | 18.81 | 17.70 |
| 250 | 19.70 | 18.51 |
| 315 | 21.39 | 19.40 |
| 400 | 22.31 | 19.69 |
| 630 | 23.40 | 19.10 |
| 800 | 23.69 | 17.31 |
| 1000 | 25.61 | 18.29 |
| 1250 | 21.01 | 30.10 |
| 1600 | 20.00 | 36.19 |
| 2000 | 34.79 | 37.30 |
| 2500 | 41.70 | 37.09 |
| 3150 | 44.10 | 35.69 |
| 5000 | 44.61 | 39.90 |
| STC | 24.00 | 23.00 |
| RW | 25.00 | 24.00 |

Acoustic Performance

Acoustic testing has been performed on TPC panels 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.

Trafficable Status

DeltaTrimCorro-TPC is classified as trafficable when used for maintenance purposes. The following recommendations should be observed at all times.

- Wear flat, rubber soled shoes
- Walk over the roof supporting beams
- Spread your weight over as many roof crests as possible
- Crawl boards should be used when accessing areas not supported by a structure

DeltaTrimCorro-TPC Fixing Details

Crest fixing only. One fixing every second crest

| Panel Thickness (mm) | Fixing into Steel | Fixing into Timber |
|----------------------|-----------------------------|-----------------------------|
| 75 | Tek 14 x 175 Hex Head Screw | T17 14 x 175 Hex Head Screw |
| 100 | Tek 14 x 200 Hex Head Screw | T17 14 x 150 Hex Head Screw |
| 125 | Tek 14 x 230 Hex Head Screw | T17 14 x 230 Hex Head Screw |
| 150 | Tek 14 x 260 Hex Head Screw | T17 14 x 265 Hex Head Screw |
| 175 | Tek 14 x 300 Hex Head Screw | T17 14 x 300 Hex Head Screw |
| 200 | Tek 14 x 300 Hex Head Screw | T17 14 x 300 Hex Head Screw |

Use Cyclone Plate and Neo Washer on each fixing.

Upon Installation the overlap needs to be stitch screwed or riveted every 300mm.



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.



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