

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

**DeltaCorroCorro-TPC** is an Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to a Thermosetting Phenolic Composite 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

### Bushfire Attack Level - BAL 29

DeltaCool-TPC achieved a Bushfire Attack Level (BAL) of AA29, as per CSIRO report Number FSZ 2411 issued 21-12-2023, when tested in accordance with the test method AS 1530.8.1

### Fire Test Certificate - AS ISO 9705

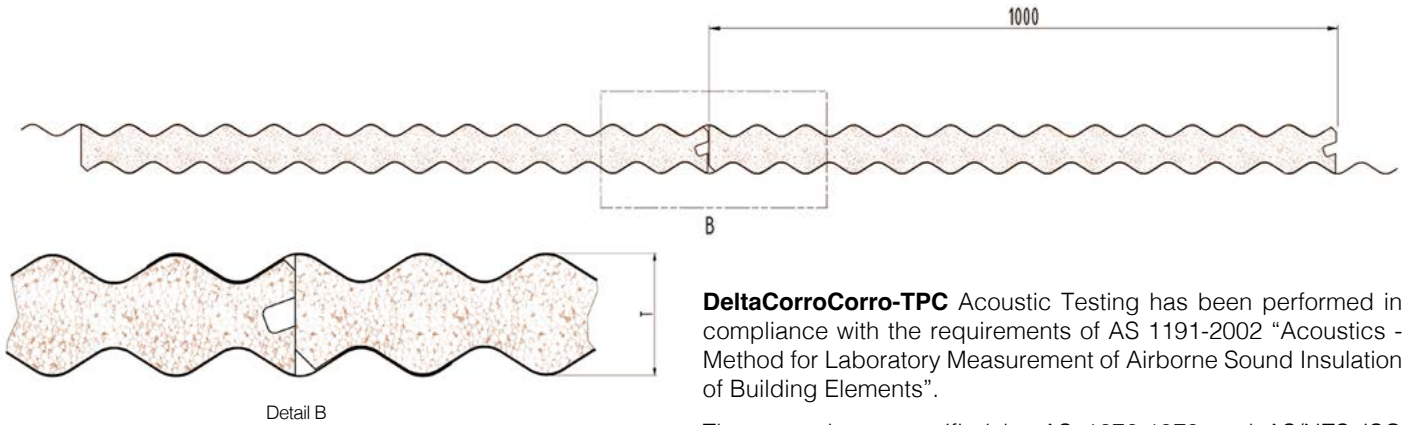
**Group 1** Classification in accordance with NCC Volume One Specification BCA2022 C2D11 & Specification 7, Fire Hazard Properties, Clause S7C4 determined in accordance with AS 5637.1:2015 as per BRANZ test report FI6323-01-2 issued 23rd February 2021

### Early Fire Hazard Properties AS 1530.3:1999

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

<b>Steel Skin Details</b>	Top Skin	0.42mm / G550 AZ150	
	Bottom Skin	0.42mm / G550 AZ150	
<b>Max. Skin Temperature</b>	78°C Dry Heat		
<b>Core Material Details</b>	Thermosetting Phenolic Composite		
<b>Thermal Conductivity AS 1366.2/ASTM C 518</b>	Average 0.039 W/mK @23°C		
<b>Adhesive</b>	Thermosetting two-part adhesive		
<b>Core Density</b>	36kgs/m <sup>3</sup> +/- 4kgs		
<b>Panel Weight (kgs/m<sup>2</sup>) based on 0.6mm steel skins</b>	75mm Panel	12.06	
	100mm Panel	12.43	
	125mm Panel	12.79	
	150mm Panel	13.15	
	175mm Panel	13.51	
	200mm Panel	13.86	
<b>External Roof R Value (m<sup>2</sup>.K/W) AS/NZS 4859 Parts 1 &amp; 2:2018</b>	Thickness	Winter (15°C)	Summer (23°C)
	75mm Panel	2.10	2.05
	100mm Panel	2.75	2.65
	125mm Panel	3.40	3.30
	150mm Panel	4.05	3.90
	175mm Panel	4.75	4.60
	200mm Panel	5.40	5.20
<b>Factory Mutual</b>	FM Approval Class 4880, 4881, 4882 & 4471		
<b>Length Tolerance</b>	5mm +/-		
<b>Sheet Coverage (mm)</b>	1000mm, +/-5mm		
<b>Length (mm)</b>	Cut to Length Min of 1800mm		
<b>Thickness (mm)</b>	75, 100, 125, 150, 175, 200, 225, 250		
<b>Minimum Roof Pitch</b>	Building Classes 1-9	- 5°	
	Building Class 10	- 3°	
<b>Patent Application No.</b>	AU2023266264		



**DeltaCorroCorro-TPC** 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 1276-1979 and AS/NZS ISO 717.1:2004 were used to calculate the Sound Transmission Class (STC) and the Weighted Sound Reduction Index  $R_w = 25$  dB.

**DeltaCorroCorro-TPC** is classed as trafficable when used in a roof application. The following recommendations should be observed at all times.

### Recommendations

- 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

Single Spans (mm)					
Wind Category	Panel Thickness	3 Sides Open	2 Sides Open	1 Side Open	Fully Enclosed
N2 (W33)	75	4900	4900	4900	4900
	100	6300	6300	6300	6300
	125	7600	7600	7600	7600
N3 (W41)	75	4800	4400	4000	4000
	100	6000	5600	5100	5100
	125	7300	6700	6100	6100
N4 (W50)	75	4000	3500	3200	3200
	100	5000	4600	4200	4200
	125	6000	5600	5000	5000

DeltaCorroCorro-TPC Acoustic Values			
Frequency		75mm	150mm
		100	15.41
	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
	<b>STC</b>	24.00	23.00
	<b>RW</b>	25.00	24.00

### DeltaCorroCorro-TPC Fixing Details

Crest fixing only. One fixing every second crest

Panel Thickness (mm)	Fixing into Steel	Fixing into Timber
75	Tek 14 x 115 Hex Head Screw	T17 14 x 125 Hex Head Screw
100	Tek 14 x 135 Hex Head Screw	T17 14 x 150 Hex Head Screw
125	Tek 14 x 150 Hex Head Screw	T17 14 x 175 Hex Head Screw
150	Tek 14 x 175 Hex Head Screw	T17 14 x 200 Hex Head Screw
175	Tek 14 x 200 Hex Head Screw	T17 14 x 230 Hex Head Screw
200	Tek 14 x 230 Hex Head Screw	T17 14 x 265 Hex Head Screw
225	Tek 14 x 260 Hex Head Screw	T17 14 x 265 Hex Head Screw
250	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.