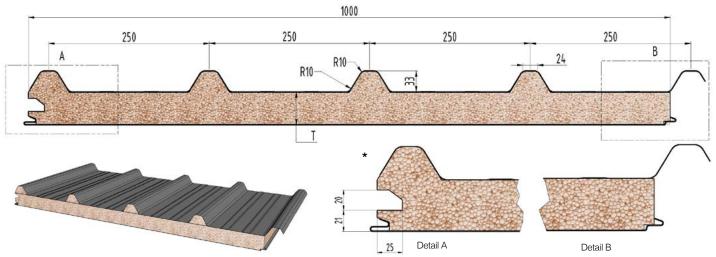
DeltaTrim-TPCSPECIFICATIONS









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

The top profile offers striking looks with all of the benefits of modern Insulated Panel technologies.

The bottom skin has a roll-formed tongue and groove edge.

Recommendations

- Patios
- Pergolas
- Carports
- Portable Buildings
- Home Extensions
- Commercial Buildings
- Residential Buildings
- Wineries
- Spray Booths

Profiles Available (Underside Skin)

• Smooth & Elegance

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 Fl6323-01-2 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	

* Conduit receiver track optional addition

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

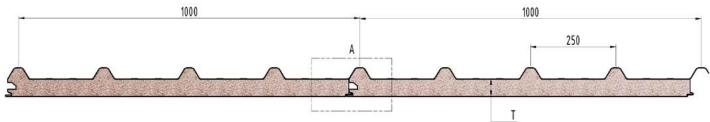
may vary. I loade fold to the diated acceptable tolerances anowarious.					
Steel Skin Details	Top Skin	0.42mm / G550 AZ150		50 AZ150	
Steel Skin Details	Bottom Sk	in	0.60mm / G3	300 Z275	
Max. Skin Temperature	78°C Dry I	Heat			
Core Material Details	Thermosetting Phenolic Composite				
Thermal Conductivity AS 1366.2/ASTM C 518	Average 0.039 W/mK @23°C				
Adhesive	Thermosetting two-part adhesive			ve	
Core Density	36kgs/m³ +/- 4kgs				
	50mm Panel 11.70				
	75mm Par	nel	12.06		
Panel Weight (kgs/m²)	100mm Pa	anel	12.43		
based on 0.6mm steel	125mm Pa	anel	12.79		
skins	150mm Pa	anel	13.15		
	175mm Pa	anel	13.51		
	200mm Panel 13.86				
	Thickness		Winter (15°C)	Summer (23°C)	
	50mm Panel		1.45	1.45	
External Roof	75mm Panel		2.10	2.05	
R Value (m ² .K/W) AS/NZS 4859 Parts 1 &	100mm Panel		2.75	2.65	
2:2018	125mm Panel		3.40	3.30	
	150mm Panel		4.05	3.90	
	175mm Panel		4.75	4.60	
	200mm Panel		5.40	5.20	
Factory Mutual	FM Approval Class 4880, 4881, 4882 & 4471				
Length Tolerance (mm)	5mm +/-				
Sheet Coverage (mm)	1000mm, +/-5mm				
Length (mm)	Cut to Length Min of 1800mm				
Thickness (mm)	50, 75, 100, 125, 150, 175, 200				
Minimum Roof Pitch	2°				
Flatness Standards	0.40mm Surface deformations can be apparent to the naked eye when observed in certain lighting conditions		ked eye		
Patent Application No.	AU2023266264				

DeltaTrim-TPCSPECIFICATIONS









Single Spans (mm)					
Wind Category	Panel Thickness	3 Sides Open	2 Sides Open	1 Side Open	Fully Enclosed
N2 (W33)	50	5400	5000	4500	4300
	75	6500	5500	5000	4700
	100	7200	6200	5700	5500
N3 (W41)	50	4800	3800	3300	3000
	75	5500	4300	3900	3700
	100	6200	5000	4500	4300
N4 (W50)	50	4000	3300	3000	3000
	75	4600	3600	3400	3300
	100	5300	4100	3800	3500

DeltaTrim-TPC Acoustic Values

		50mm	125mm
	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
Frequency	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



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.

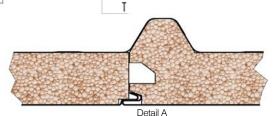












Acoustic Performance

DeltaTrim-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/NZS ISO 717.1:2024 were used to calculate the Sound Transmission Class (STC) and the Weighted Sound Reduction Index $\rm Rw=25~dB$.

Trafficable Status

DeltaTrim-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

Aesthetics

Roll-formed metal sheeting as utilised in DeltaTrim™ Insulated Panels may exhibit waviness, commonly referred to as "oil-canning." The degree of oil-canning will vary depending on factors such as the panel's length, colour and exposure to sunlight. Oil-canning pertains to aesthetics only and has no adverse effect on the structural performance of the panels. Delta Panels is not responsible for oil-canning or aesthetics. Oil-canning shall not be grounds to withhold payment or reject panels.

DeltaTrim-TPC Fixing Details Crest fixing only. One fixing every second crest			
Panel Thickness (mm)	Fixing into Steel	Fixing into Timber	
50	Tek 14 x 135 Hex Head Screw	T17 14 x 125 Hex Head Screw	
75	Tek 14 x 150 Hex Head Screw	T17 14 x 150 Hex Head Screw	
100	Tek 14 x 175 Hex Head Screw	T17 14 x 175 Hex Head Screw	
125	Tek 14 x 200 Hex Head Screw	T17 14 x 200 Hex Head Screw	
150	Tek 14 x 230 Hex Head Screw	T17 14 x 230 Hex Head Screw	
175	Tek 14 x 260 Hex Head Screw	T17 14 x 265 Hex Head Screw	
200	Tek 14 x 260 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.