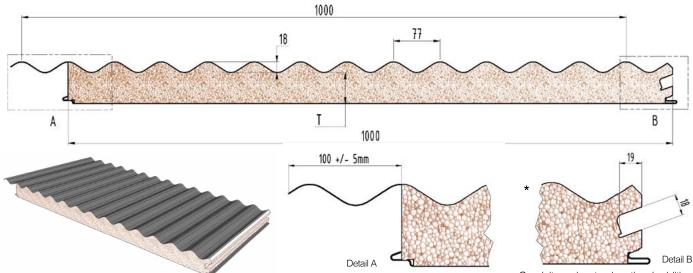
> DeltaOrb-TPC SPECIFICATIONS





DeltaOrb-TPC is an Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, wbonded 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

- PatiosPergolas
- Commercial Buildings
- Residential Buildings
- Carports
- WineriesSpray Booths
- Portable BuildingsHome Extensions

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 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	

* 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.

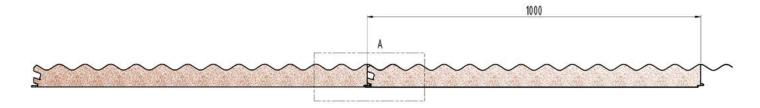
Steel Skin Details	Top Skin Bottom Sk	kin	0.42mm / G5 0.60mm / G3	
Max. Skin Temperature	78°C Dry Heat			
Core Material Details	Thermosetting Phenolic Composite			
Thermal Conductivity AS 1366.2/ASTM C 518	Average 0.039 W/mK @23°C			
Adhesive	Thermosetting two-part adhesive			
Core Density	36kgs/m³ +/- 4kgs			
Panel Weight (kgs/m²) based on 0.6mm steel skins	50mm Par 75mm Par 100mm Pa 125mm Pa 150mm Pa 175mm Pa 200mm Pa	nel anel anel anel anel	11.70 12.06 12.43 12.79 13.15 13.51 13.86	
External Roof R Value (m ² .K/W) AS/NZS 4859 Parts 1 & 2:2018	Thickness 50mm Par 75mm Par 100mm Pa 125mm Pa 150mm Pa 175mm Pa 200mm Pa	nel nel anel anel anel anel	Winter (15°C) 1.45 2.10 2.75 3.40 4.05 4.75 5.40	Summer (23°C) 1.45 2.05 2.65 3.30 3.90 4.60 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	Building Classes 1-9 - 5° Building Class 10 - 3°			
Flatness Standards	0.40mmSurface deformations can be apparent to the naked eye when observed in certain lighting conditions			
Patent Application No.	AU2023266264			

Delta Panels Pty Ltd - ABN: 11 147 861 292

E: info@deltapanels.com W: www.deltapanels.com Head Office: 731 Boundary Road, Richlands, Qld 4077 P: +61 7 3271 2170 Sydney Depot: 11 The Old Northern Road, Narellan, NSW 2567 P: +61 2 4611 7712

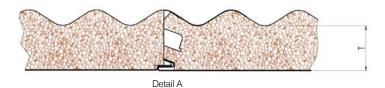






Single Spans (mm)					
Wind Category	Panel Thickness	3 Sides Open	2 Sides Open	1 Side Open	Fully Enclosed
N2 (W33)	50	5400	5000	4500	4300
	75	6500	5500	5000	4700
	100	7200	6200	5700	5500
N3 (W41)	50	4800	3800	3300	3000
	75	5500	4300	3900	3700
	100	6200	5000	4500	4300
N4 (W50)	50	4000	3300	3000	3000
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

DeltaOrb-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	
Froquonov	800	23.69	17.31	
Frequency	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	



DeltaOrb-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 Rw = 25 dB.

DeltaTrim-TPC is classified as trafficable when used for maintenance purposes. 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

DeltaOrb-TPC Fixing Details Crest fixing only. One fixing every second crest		
Panel Thickness (mm)	Fixing into Steel	Fixing into Timber
50	Tek 14 x 115 Hex Head Screw	T17 14 x 125 Hex Head Screw
75	Tek 14 x 135 Hex Head Screw	T17 14 x 150 Hex Head Screw
100	Tek 14 x 150 Hex Head Screw	T17 14 x 175 Hex Head Screw
125	Tek 14 x 175 Hex Head Screw	T17 14 x 200 Hex Head Screw
150	Tek 14 x 200 Hex Head Screw	T17 14 x 230 Hex Head Screw
175	Tek 14 x 230 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.



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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E: info@deltapanels.com W: www.deltapanels.com Head Office: 731 Boundary Road, Richlands, Qld 4077 P: +61 7 3271 2170 Sydney Depot: 11 The Old Northern Road, Narellan, NSW 2567 P: +61 2 4611 7712