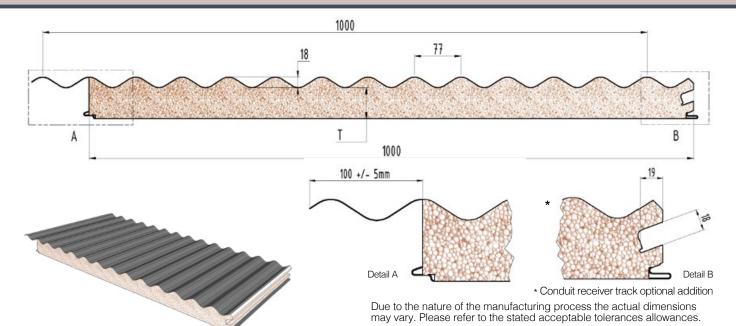
Delta Orb-TPC SPECIFICATIONS







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

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

Profiles Available (Underside Skin)

• Smooth & Elegance

Single Spans (mm)					
Wind Category	Panel Thickness	3 Sides Open	2 Sides Open	1 Side Open	Fully Enclosed
	50	5400	5000	4500	4300
N2 (W33)	75	6500	5500	5000	4700
(1100)	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

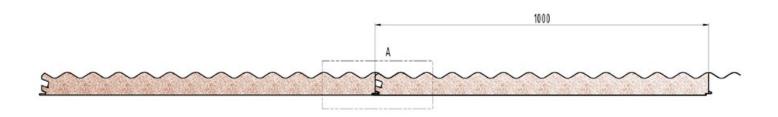
Steel Skin Details	Top Skin Bottom Skir	n	0.42mm / G 0.60mm / G	
Max. Skin Temperature	78°C Dry Heat			
Core Material Details	Thermosett	ting F	Phenolic Co	mposite
Thermal Conductivity AS 1366.2/ASTM C 518	Average 0.0394 W/mK @23°C			8°C
Adhesive	Thermosett	ting t	wo-part adh	nesive
Core Density	36kgs/m³ +/- 4kgs			
Weight (kgs/m²)	50mm Pand 75mm Pand 100mm Pand 125mm Pand 150mm Pand 175mm Pand 200mm Pand	el nel nel nel	12.58 13.88 15.17 16.17 18.23 19.23 21.29	
R Value (m².K/W) AS/NZS 4859 Parts 1 & 2:2018	Thickness 50mm Pane 75mm Pane 100mm Pane 125mm Pane 150mm Pane 175mm Pane 200mm Pane	el nel nel nel	Winter (15°C) 1.60 2.25 2.90 3.55 4.20 4.85 5.50	Summer (30°C) 1.60 2.20 2.85 3.45 4.05 4.70 5.30
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	0.40mm Surface deformations can be apparent to the naked eye when observed in certain lighting conditions			

Patent Application No. 2022903579

> Delta Orb = TPC SPECIFICATIONS







Early Fire Hazard Properties AS 1530.3:1999

AWTA Test Report 18-006076 14-11-2018			
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	2	

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	
Frequency	800	23.69	17.31	
rrequericy	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	

Please refer to the web page for the available colour range, paint finishes and relevant warranty conditions.



Detail A

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) of **DeltaOrb-TPC**.

DeltaOrb-TPC is classed as trafficable when used in a roof application.

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.







