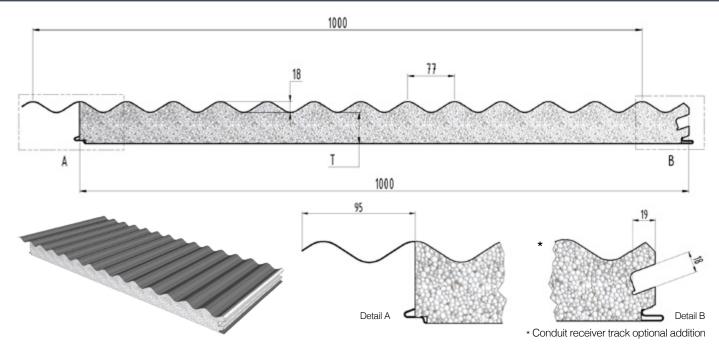
DeltaOrb-EPS-FR







DeltaOrb-EPS-FR is an Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, with a fire retardant grade expanded polystyrene insulating core.

CodeMark Australia Certificate - CM40309 - certifies that DeltaTrim-PIR complies with the stated BCA2019 performance requirements.

The top profile offers striking looks with all of the benefits of modern insulated panel technologies while the bottom skin has a roll-formed tongue and groove joining edge.

Recommendations

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

Profiles Available (Underside Skin)

- Smooth
- SatinLine
- Ribbed
- Mesa

Single Spans (mm)					
Wind Category	Panel Thickness	3 Sides Open	2 Sides Open	1 Side Open	Fully Enclosed
NO	50	5400	5000	4500	4300
N2 (W33)	75	6500	5500	5000	4700
(1100)	100	7200	6200	5700	5500
NO	50	4800	3800	3300	3000
N3 (W41)	75	5500	4300	3900	3700
(** 11)	100	6200	5000	4500	4300
NIA	50	4000	3300	3000	3000
N4 (W50)	75	4600	3600	3400	3300
(**************************************	100	5300	4100	3800	3500

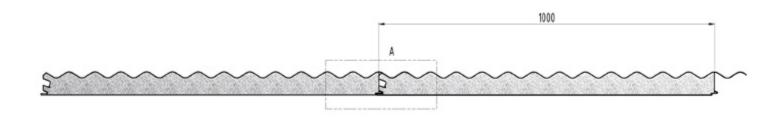
Steel Skin Details	Top Skin	0.42mm / G550 AZ150	
Steel Skill Details	Bottom Skin	0.60mm / G300 Z275	
Max. Skin Temperature	78°C Dry Heat		
Core Material Details	SL Grade Polystyr	ene - Fire Retardant Grade	
Thermal Conductivity AS 1366.2/ASTM C 518	0.037 W/mK @2	22.5°C	
Adhesive	Thermosetting	two-part adhesive	
Core Density	13.5kg/m ³		
	50mm Panel	10.58	
	75mm panel	10.94	
Weight (kg/m²)	100mm Panel	11.17	
	125mm Panel	11.80	
	150mm Panel	12.23	
	50mm Panel	1.4	
	75mm panel	2.1	
R Value @ 22.5°C	100mm Panel	2.7	
	125mm Panel	3.4	
	150mm Panel	4.1	
Certificate of Conformity	CertMark International Certificate - CM40309		
Sheet Coverage	1000mm		
Length (mm)	Cut to Length Min of 1800mm		
Length Tolerance (mm)	5mm+/-		
Thickness (mm)	50, 75, 100, 125, 150		
Minimum Roof Pitch	3°		

Version Date: 05.01.2020

> DeltaOrb-EPS-FR







Exposure to the External Surface - AS 3959-2009

BRANZ Fire Test Certificate 805 - 24-10-2018 - BAL40

Early Fire Hazard Properties AS 1530-1999

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-EPS-FR 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-EPS-FR 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-EPS-FR**.

DeltaOrb-EPS-FR is classed as traficable when used in a roof application.

	DeltaOrb-EPS-FR 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			

Use Cyclone Plate and Neo Washer on each fixing.

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







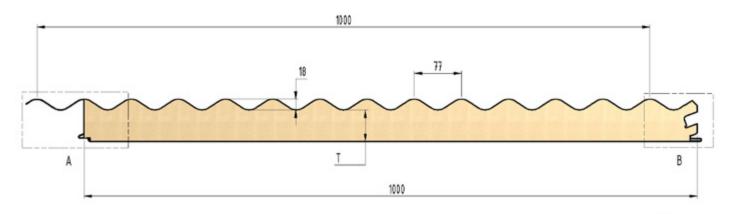
Version Date: 05.01.2020

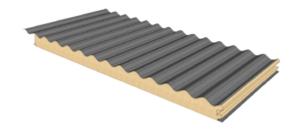
DeltaOrb™-PIR

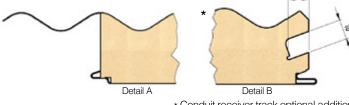












* Conduit receiver track optional addition

DeltaOrb-PIR is a Factory Mutual Approved Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, with a polyisocyanurate core.

CodeMark Australia Certificate - CM40309 - certifies that DeltaTrim-PIR complies with the stated BCA2019 performance requirements.

The top profile offers striking looks with all of the benefits of modern insulated panel technologies while the bottom skin has a roll-formed tongue and groove joining edge.

Recommendations

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

Profiles Available (Underside Skin)

- Smooth
- SatinLine
- Ribbed
- Mesa

Exposure to the External Surface - AS 3959-2009

BRANZ Fire Test Certificate 805 - 24-10-2018 - BAL40

Early Fire Hazard Properties AS 1530-1999

AWTA Test Report 18-006077 15-11-2018

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	3

	Top Skin	0.42mm	/ G550 AZ150	
Steel Skin Details	Bottom Skin	0.4mm-0	.6mm / G300 Z275	
Max. Skin Temperature	78°C Dry He	eat		
Core Material Details	Polyisocyan	urate		
Thermal Conductivity AS 1366.2/ASTM C 518	0.0232 W/mK at 23°C Test Report DI10856-001		Test Report DI10856-001-01	
Core Density	38-42kg/m ³			
	50mm Pane	el	12.58	
	75mm pane	el .	13.88	
Weight (kg/m²)	100mm Panel		15.17	
	125mm Panel		16.17	
	150mm Panel		18.23	
	50mm Panel		2.16	
	75mm panel		3.23	
R Value @ 22.5°C	100mm Panel		4.31	
	125mm Panel		5.39	
	150mm Panel		6.47	
Factory Mutual	Approved			
Certificate of Conformity	CertMark Inte	rnational C	ertificate - CM40309	
Sheet Coverage	1000mm			
Length (mm)	Cut to Length Min of 18		1800mm	
Length Tolerance (mm)	5mm+/-			
Thickness (mm)	50, 75, 100, 125, 150			
Minimum Roof Pitch	3°			

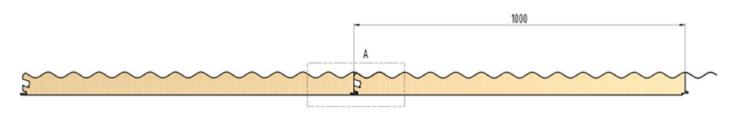
Version Date: 05.01.2020

DeltaOrb™-PIR



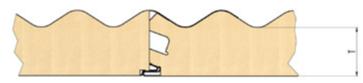






DeltaOrb-PIR Single Span Non-Cyclonic Span Tables						
Wind	Panel	STYLE 1	STYLE 2	STYLE 3	STYLE 4	Maximum Overhang
Category	Thickness	3 or more sides open	2 sides open	1 side open	Fully enclosed	Each end
	50mm	5400	4800	4300	4400	900
N1/N2	75mm	6700	5700	5200	5300	900
(W28/	100mm	7400	6300	5900	6000	1000
W33)	125mm	8000	6700	6200	6300	1200
	150mm	8500	7000	6500	6500	1200
	50mm	5100	4000	3400	3600	900
	75mm	5700	4500	4100	4200	900
N3 (W41)	100mm	6200	4900	4500	4600	1000
(₩41)	125mm	6600	5400	5000	5100	1200
	150mm	6900	5500	5100	5200	1200
	50mm	4000	3100	2600	2700	600
	75mm	4700	3700	3200	3300	600
N4 (W50)	100mm	5100	4300	3600	3700	800
(4430)	125mm	5400	4700	4200	4300	900
	150mm	5600	4900	4300	4400	900

DeltaOrb-PIR Multi Span Non-Cyclonic Span Tables						
Wind	Panel	STYLE 1	STYLE 2	STYLE 3	STYLE 4	Maximum Overhang
Category	Thickness	3 or more sides open	2 sides open	1 side open	Fully enclosed	Each end
	50mm	5900	5280	4730	4840	900
N1/N2	75mm	7200	6200	5700	5800	900
(W28/	100mm	7900	6800	6400	6500	1000
W33)	125mm	8500	7200	6700	6800	1200
	150mm	9000	7500	7000	7000	1200
	50mm	5600	4400	3740	3960	900
NO	75mm	6200	4950	4510	4620	900
N3 (W41)	100mm	6700	5390	4950	5060	1000
(11-11)	125mm	7100	5900	5500	5600	1200
	150mm	7400	6000	5600	5700	1200
	50mm	4400	3410	2860	2970	600
	75mm	5170	4070	3520	3630	600
N4 (W50)	100mm	5600	4730	3960	4070	800
(1100)	125mm	5900	5170	4620	4730	900
	150mm	6100	5390	4730	4840	900



Detail A

DeltaOrb-PIR 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".

DeltaOrb-PIR Acoustic Values				
		50mm	125mm	
Frequency	STC	24.00	23.00	
	RW	25.00	24.00	

	DeltaOrb-PIR 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			

Use Cyclone Plate and Neo Washer on each fixing.

Upon Installation the overlap needs to be stitch screwed or riveted every 300mm. To comply with Delta Panels Factory Mutual Certification, Fixings and Installation must conform with the conditions as outlined in the Factory Mutual approval displayed on our web page.

Tek 14 x 200 Hex Head Screw T17 14 x 230 Hex Head Screw









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