

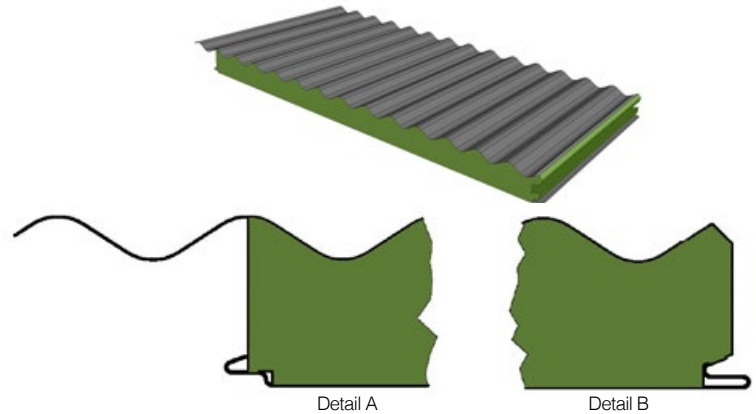
**DeltaOrb-MW** is an Insulated Roof Panel System, comprising of two pre-painted, roll-formed steel skins, with a roll-formed steel skins bonded to a non-combustible mineral wool core.

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.

CodeMark Australia Certificate CM40345 DeltaFireX Car Port System incorporating DeltaOrb-MW panels certifies compliance with the stated performance provisions of the NCC2019. Please refer to the certificate, as displayed on our web page, for the exact details of the compliance.

CodeMark Australia Certificate CM40346 Class 10a Awning and Patio Roof System incorporating DeltaOrb-MW and DeltaOrb-EPS panels certifies compliance with the stated performance provisions of the NCC2019. Please refer to the certificate, as displayed on our web page, for the exact details of the compliance.



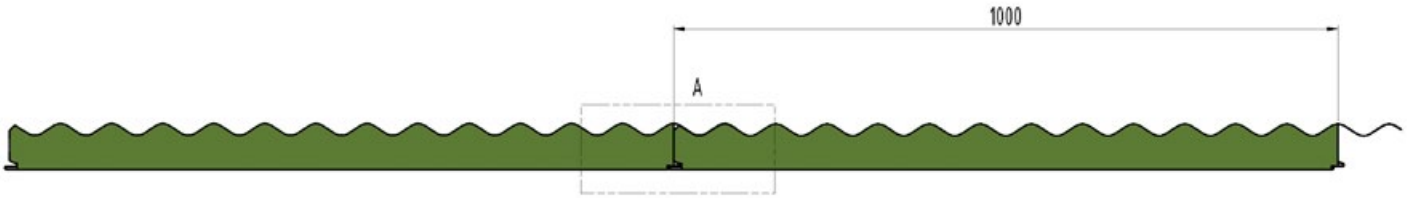
Early Fire Hazard Properties AS 1530.3:1999		
AWTA Test Report 21-003529 19/07/21		
Index	Test Range	External Top Skin
Ignitability	0-20	0
Spread of Flame	0-10	0
Heat Evolved	0-10	0
Smoke Developed	0-10	3

Combustibility Test AS 1530.1-1994	
CSIRO Report no. FNC12604 dated 8/7/2020 tested five (5) samples of the Delta Panels supplied mineral wool sample and certified that the material is NOT deemed combustible according to the criteria specified in clause 3.4 of AS 1530.1-1994.	

Sotera - FireX™ Car Port System	
The Sotera report A21007 J005 - DeltaFireX Car Port System FER dw rev 1-3 (NOTE REV 1-3) confirms that the FireX™ Car Port System meets the performance requirements of P2.3.1(a) Volume 2, NCC 2019 Amendment 1 when installed in accordance with the DeltaFireXRoof Brochure version v15.10.21 and section 4.4 of their report as a Class 10a structure (car port) attached or adjacent to a Class 1a building positioned directly adjacent to the site boundary (i.e.) less than 900 mm from the site boundary)	

Sotera - Delta MW and EPS-FR Awning & Patio Roof System	
The Sotera report A21007 J004 - Delta MW and EPS-FR Awning and Patio Roof System FER dw rev 1-3, confirms that the Mineral Wool & EPS-FR Awning & Patio Roof System meets the performance requirements of P2.3.1(a) Volume 2, NCC 2019 Amendment 1 when installed in accordance with the Delta Mineral Wool Panels Brochure version V20.10.21 and section 4.4 of their report as a Class 10a structure (car port) attached or adjacent to a Class 1a building positioned directly adjacent to the site boundary (i.e.) less than 900 mm from the site boundary)	

<b>Steel Skin Details</b>	Top Skin	0.42mm / G550 AZ150
	Bottom Skin	0.55mm / G300 Z275
<b>Max. Skin Temperature</b>	78°C Dry Heat	
<b>Core Material Details</b>	Mineral Wool	
<b>Thermal Conductivity AS 1366.2/ASTM C 518</b>	0.0363 W/mK @23.0°C	
<b>Core Density</b>	100kg/m <sup>3</sup>	
<b>0.6mm Skin Weight (kg/m<sup>2</sup>)</b>	75mm Panel	18.50
	100mm Panel	21.00
	125mm Panel	23.50
	150mm Panel	26.00
<b>R Value</b>	75mm Panel	2.08
	100mm Panel	2.78
	125mm Panel	3.48
	150mm Panel	4.17
<b>Certificate of Conformity</b>	CM40435 & CM40436	
<b>Sheet Coverage</b>	1000mm	
<b>Length (mm)</b>	Cut to Length Min of 1800mm	
<b>Length Tolerance (mm)</b>	5mm+/-	
<b>Thickness (mm)</b>	75, 100, 125, 150	
<b>Minimum Roof Pitch</b>	Building Classes 1-9	- 5°
	Building Class 10	- 3°
<b>Flatness Standards</b>	0.40mm	Surface deformations can be apparent to the naked eye when observed in certain lighting conditions
	0.60mm	



Detail A

### DeltaOrb-MW Single & Multi Span Non-Cyclonic Tabs

Span mm	Pressure (kPa)			
	75mm	100mm	125mm	150mm
1800	2.29	3.27	4.24	5.49
2400	1.44	2.09	2.74	3.63
3000	0.94	1.34	1.73	2.33
3600	0.63	0.93	1.22	1.61
4200	0.46	0.67	0.91	1.16
4800	0.36	0.53	0.70	0.91
5400	0.28	0.43	0.56	0.74
6000		0.33	0.43	0.59

**DeltaOrb-MW** 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-MW**.

### Handling & Installation

**DeltaOrb-MW** core material is fibrous as such it is easy to fracture the mineral wool fibres if handled and installed incorrectly. Please ensure that correct lifting equipment is used when the panels are transported and lifted into position. Refer to the Handling & Installation Manual - Roof Systems for the correct Crane & Sling Procedures. When installing Mineral Wool panels only step onto the section of the panels that are supported by the underneath roof structure. **Do not step on unsupported spans.** Once installed it is classified as trafficable for maintenance purposes only and all traffic should only be on the supported roof sections.

### DeltaOrb-MW Acoustic Values

Frequency		50mm	125mm
		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

### DeltaOrb-MW Fixing Details

Crest fixing only. One fixing every second crest

Panel Thickness (mm)	Fixing into Steel	Fixing into Timber
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.



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