

Certificate number: CM40309 Rev1

**Certification Body:**

  
 ABN: 80 111 217 568  
 JAS-ANZ Accreditation  
 No. Z4450210AK  
 PO Box 7144, Sippy  
 Downs Qld 4556  
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[www.CertMark.org](http://www.CertMark.org)

**Certificate Holder:**

  
 Delta Panels Pty Ltd  
 ABN: 11 147 861 292  
 2828 Ipswich Road,  
 Darra, QLD 4076  
 Ph: 07 3271 2170  
[www.deltapanel.com.au](http://www.deltapanel.com.au)

**THIS IS TO CERTIFY THAT**

**Delta Panels**

**Type and/or use of product:**

Insulated roof panel.

**Description of product:**

Two pre-painted, roll-formed steel skins bonded to either a retardant grade Expanded Polystyrene core (EPS) or a Polyisocyanurate core (PIR). Refer A2 for more information.

**COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) BCA 2019 (Amdt. 1)**

	Volume One	Volume Two
<b>Performance Requirement(s):</b>	BP1.1(a),(b) Structural reliability (i),(ii) & (iii)	P2.1.1(a),(b) Structural stability and resistance (i),(ii) & (iii)
<b>Deemed-to-Satisfy Provision(s):</b>	C1.10(a)(ix) Fire resistance - Fire hazard properties - Other materials – Limited to the 100mm EPS core panels – Refer A3.  J1.3 Energy efficiency – Roofs - Restricted to core - Refer Limitation and Condition 9	3.12.1.2 Energy Efficiency – Roofs - Restricted to core – Refer Limitation and Condition 9
<b>State or territory variation(s):</b>	C1.10(a)(ix) Spec C1.10(7) (NSW)	Part 3.12 (NSW, NT, Qld, Tas, ACT)

**SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B**

**Limitations and conditions:**

- This certificate excludes compliance with part 3.5.1 Roof Cladding in relation to satisfying P2.2.2 Weatherproofing. A site-specific performance assessment is required for installations on buildings other than Class 10a.
- This product has not been tested in accordance with AS 1530.1-1994 for non-combustibility.
- In the absence of a site-specific performance solution, this system is not suitable for use in or on Class 2 to 9 buildings where BCA requires roof coverings to be non-combustible.
- In the absence of testing to AS 1562.1:2018, roof panels installation must be treated as non-trafficable roofs.
- In the absence of a site-specific performance solution, this product or system must not be used to facilitate the exemptions for a carport specified in Part 3.7.2.6 Open carports of Volume 2 of the BCA 2019.
- Any penetrations made into the certified products will void all nominated structural performance. The adequacy of the size, location and spacing of any penetrations through the roof panel must be confirmed by a structural engineer.

**Building classification/s:**

Class 1,2,3,4,5,6,7,8,9 & 10

  
 Richard Donarski - CMI

  
 Don Grehan – Unrestricted Building Certifier

**Date of issue:** 18/12/2020

**Date of expiry:** 19/12/2022



# Certificate of Conformity

7. It is the responsibility of the building designer to ensure fitness for purpose including, but not limited to, consideration for the corrosion resistance level of the product and the proximity to breaking surf.
8. Installation must be in accordance with the documents referenced in A5.
9. Thermal Values listed in A3 have been verified as compliant on a contributes to basis, excluding the 100mm, which is deemed compliant.
10. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the Scope of Certification.
11. The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

**Scope of certification:** The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website [www.abcb.gov.au](http://www.abcb.gov.au). This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the Certificate Holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity. This may result in the product being classified as a non-conforming building product.

**Disclaimer:** The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CertMark International has relied on the experience and expertise of external bodies (laboratories and technical experts).

Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

As per page 1.

### A2 Description of product

Delta Panels family of products are as follows.

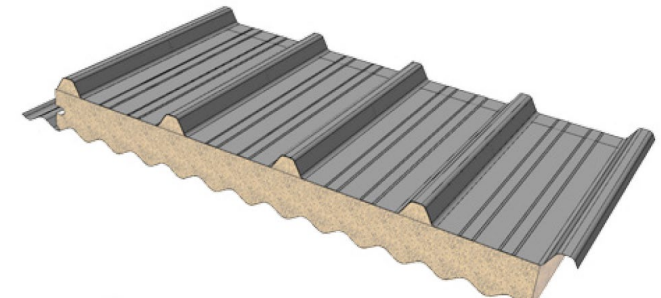
#### DeltaTrim™

	EPS		PIR	
<b>Steel Skin Details</b>	<b>Top Skin</b>	0.42mm / G550 AZ150	<b>Top Skin</b>	0.42mm / G550 AZ150
	<b>Bottom Skin</b>	0.6mm / G300 Z275	<b>Bottom Skin</b>	0.4mm-0.6mm / G300 Z275
<b>Core Material</b>	SL Grade Polystyrene – Fire Retardant Grade		Polyisocyanurate - PIR	
<b>Sheet Coverage</b>	1000mm		1000mm	
<b>Length</b>	Cut to length. Min. of 1800mm		Cut to length. Min. of 1800mm	
<b>Thickness(mm)</b>	50, 75, 100, 125, 150, 175, 200		50, 75, 100, 125, 150, 175, 200	
<b>Minimum Roof Pitch</b>	2°		2°	



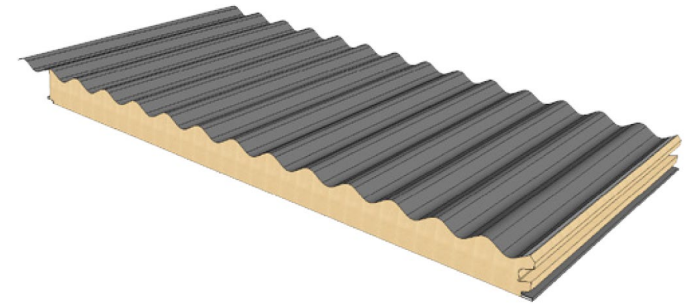
#### DeltaTrimCorro™

	EPS		PIR	
<b>Steel Skin Details</b>	<b>Top Skin</b>	0.42mm / G550 AZ150	<b>Top Skin</b>	0.42mm / G550 AZ150
	<b>Bottom Skin</b>	0.42mm / G550 AZ150	<b>Bottom Skin</b>	0.42mm / G550 AZ150
<b>Core Material</b>	SL Grade Polystyrene – Fire Retardant Grade		Polyisocyanurate - PIR	
<b>Sheet Coverage</b>	1000mm		1000mm	
<b>Length</b>	Cut to length. Min. of 1800mm		Cut to length. Min. of 1800mm	
<b>Thickness(mm)</b>	75, 100, 125, 150, 175, 200, 250		75, 100, 125, 150, 175, 200, 250	
<b>Minimum Roof Pitch</b>	3°		3°	



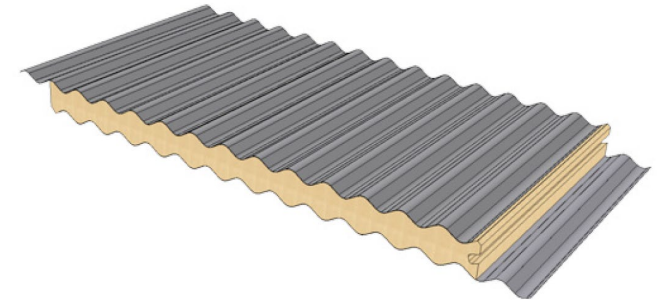
## DeltaOrb™

	EPS		PIR	
<b>Steel Skin Details</b>	<b>Top Skin</b>	0.42mm / G550 AZ150	<b>Top Skin</b>	0.42mm / G550 AZ150
	<b>Bottom Skin</b>	0.6mm / G300 Z275	<b>Bottom Skin</b>	0.4mm-0.6mm / G300 Z275
<b>Core Material</b>	SL Grade Polystyrene – Fire Retardant Grade		Polyisocyanurate - PIR	
<b>Sheet Coverage</b>	1000mm		1000mm	
<b>Length</b>	Cut to length. Min. of 1800mm		Cut to length. Min. of 1800mm	
<b>Thickness(mm)</b>	50, 75, 100, 125, 150		50, 75, 100, 125, 150	
<b>Minimum Roof Pitch</b>	3°		3°	



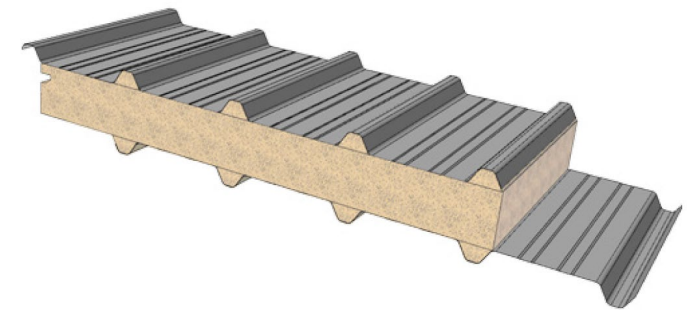
## DeltaCorroCorro™

	EPS		PIR	
<b>Steel Skin Details</b>	<b>Top Skin</b>	0.42mm / G550 AZ150	<b>Top Skin</b>	0.42mm / G550 AZ150
	<b>Bottom Skin</b>	0.42mm / G550 AZ150	<b>Bottom Skin</b>	0.42mm / G550 AZ150
<b>Core Material</b>	SL Grade Polystyrene – Fire Retardant Grade		Polyisocyanurate - PIR	
<b>Sheet Coverage</b>	1000mm		1000mm	
<b>Length</b>	Cut to length. Min. of 1800mm		Cut to length. Min. of 1800mm	
<b>Thickness(mm)</b>	75, 100, 125, 150, 175, 200, 250		75, 100, 125, 150, 175, 200, 250	
<b>Minimum Roof Pitch</b>	3°		3°	



## DeltaTrimTrim™

	EPS		PIR	
<b>Steel Skin Details</b>	<b>Top Skin</b>	0.42mm / G550 AZ150	<b>Top Skin</b>	0.42mm / G550 AZ150
	<b>Bottom Skin</b>	0.42mm / G550 AZ150	<b>Bottom Skin</b>	0.42mm / G550 AZ150
<b>Core Material</b>	SL Grade Polystyrene – Fire Retardant Grade		Polyisocyanurate - PIR	
<b>Sheet Coverage</b>	1000mm		1000mm	
<b>Length</b>	Cut to length. Min. of 1800mm		Cut to length. Min. of 1800mm	
<b>Thickness(mm)</b>	75, 100, 125, 150, 175		75, 100, 125, 150, 175	
<b>Minimum Roof Pitch</b>	2°		2°	



## A3 Product specification

**Fire Hazard Properties** **Delta CorroCorro** - EPS-FR, pre-painted steel skins bonded to an EPS core with fire retardant.  
Nominal Density 13.5kgm<sup>3</sup> | Nominal Thickness 100mm

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-1

**Delta Trim** - EPS-FR, pre-painted steel skins bonded to an EPS core with fire retardant.  
Nominal Density 13.5kgm<sup>3</sup> | Nominal Thickness 100mm.

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	2

**Delta TrimTrim** - EPS-FR, pre-painted steel skins bonded to an EPS core with fire retardant.  
Nominal Density 13.5kgm<sup>3</sup> | Nominal Thickness 100mm.

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	3

**Delta TrimCorro**- EPS-FR, pre-painted steel skins bonded to an EPS core with fire retardant.  
Nominal Density 13.5kgm<sup>3</sup> | Nominal Thickness 100mm.

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-1

**Delta Orb** - EPS-FR, pre-painted steel skins bonded to an EPS core with fire retardant.  
Nominal Density 13.5kgm<sup>3</sup> | Nominal Thickness 100mm.

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	2

## Thermal Properties

### Core Only

#### EPS Core

Test thickness	mm	102
Specimen dimension	mm	600 x 600
Density	Kg/m <sup>3</sup>	17.3
Thermal resistance	m <sup>2</sup> K/W	2.63
Thermal conductivity	W/mK	0.0388

Source: BRANZ Test Report DI11642-001 dated 29/05/2019

#### PIR Core

		Sample 1	Sample 2
Test thickness	mm	98.2	98.7
Specimen dimension	mm	600 x 600	600 x 600
Density	Kg/m <sup>3</sup>	40.2	42.3
Thermal resistance	m <sup>2</sup> K/W	3.96	4.25
Thermal conductivity	W/mK	0.0248	0.0232

Source: BRANZ Test Report DI10856-001-01 dated 04/05/2018.

### R-Value Calculations

Panel Thickness (mm)	50	75	100	125	150	175	200	225	250
DeltaTrim-EPS-FR	1.4	2.0	2.7	3.4	4.1	4.7	5.4	-	-
DeltaTrim-PIR	2.16	3.23	4.31	5.39	6.47	7.54	8.62	-	-
DeltaOrb-EPS-FR	1.4	2.0	2.7	3.4	4.1	4.7	5.4	-	-
DeltaOrb-PIR	2.16	3.23	4.31	5.39	6.47	7.54	8.62	-	-
DeltaCorroCorro-EPS-FR	-	1.6	2.3	3.1	3.6	4.3	5.0	5.8	6.4
DeltaCorroCorro-PIR	-	2.59	3.66	4.96	5.82	6.90	7.97	9.27	10.13
DeltaTrimTrim-EPS-FR	-	2.0	2.7	3.4	4.1	4.7	5.4	-	-
DeltaTrimTrim-PIR	-	3.23	4.31	5.39	6.47	7.54	8.62	-	-
DeltaTrimCorro-EPS-FR	-	2.0	2.7	3.4	4.1	4.7	5.4	-	-
DeltaTrimCorro-PIR	-	3.23	4.31	5.39	6.47	7.54	8.62	-	-

The stated R Values are calculated in accordance with AS/NZS 4859.1 & 4859.2:2018 and based on the BRANZ laboratory testing reports DI11642-01 & DI10856-01.

Source: R-Value Calculation conducted in accordance with AS/NZS 4859.1 & 4859.2:2018 dated 18/11/2020.

### A4 Manufacturer and manufacturing plant(s)

Delta Panels Pty Ltd  
2828 Ipswich Road,  
Darra QLD 4076.



# Certificate of Conformity

## A5 Installation requirements

Installation must be in accordance with the following documentation:

- [Handling & Installation Manual Delta Panels Roofing Systems V02.05.19.](#)
- [Module A - Awnings, Patios & Carports Engineering & Construction Manual Non Cyclonic & Cyclonic Regions Doc 180509 V26.06.19.](#)
- [Flashings - Recommended Installation Doc 180520 V.05.06.19.](#)

## A6 Other relevant technical data

No other relevant technical data.

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

1. Fire Safety Provisions A5.2(1)(d). Reports from an Accredited Testing Laboratories.
2. Structural Provisions A5.2(1)(e). Reports from a professional engineer.
3. Thermal Provisions A5.2(1)(d)&(e). Reports from an Accredited Testing Laboratories and professional engineer.

### B2 Reports

1. AWTA; NATA Accreditation No. 1356; Test No. 19-003619; Testing in accordance with AS/NZS 1530.3-1999; Dated 30/07/2019.
2. AWTA; NATA Accreditation No. 1356; Test No. 19-003620; Testing in accordance with AS/NZS 1530.3-1999; Dated 30/07/2019.
3. AWTA; NATA Accreditation No. 1356; Test No. 19-003621; Testing in accordance with AS/NZS 1530.3-1999; Dated 30/07/2019.
4. AWTA; NATA Accreditation No. 1356; Test No. 19-003622; Testing in accordance with AS/NZS 1530.3-1999; Dated 31/07/2019.
5. AWTA; NATA Accreditation No. 1356; Test No. 19-003623; Testing in accordance with AS/NZS 1530.3-1999; Dated 31/07/2019.
6. J S George Meija; Certification of the Delta Products listed to structural clauses for the BCA 2019; Dated 11/11/2019.
7. J S George Meija; R-Values calculated in accordance with AS/NZS 4859.1 & 4859.2:2018 based on BRANZ test reports DI10856-001 and DI11642-001; Dated 18/11/2020.
8. BRANZ; IANZ Accreditation No. 37; DI10856-001-01; Test report on the PIR foam core to the requirements of ASTM C518 for Delta Panels; Dated 04/05/2018.
9. BRANZ; IANZ Accreditation No. 37; DI11642-001; Test report on the EPS foam core to the requirements of ASTM C518 for Delta Panels; Dated 29/05/2019.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.