



AUSTRALIAN MADE FOR AN AUSTRALIAN LIFESTYLE

Delta Panels Pty Ltd

Phone: +61 7 3271 2170

Email: info@deltapanel.com

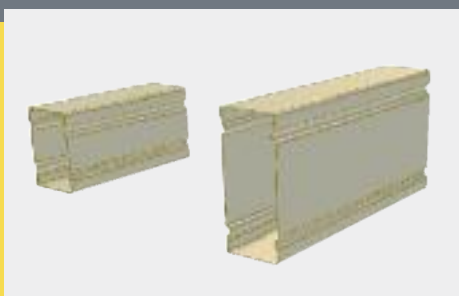
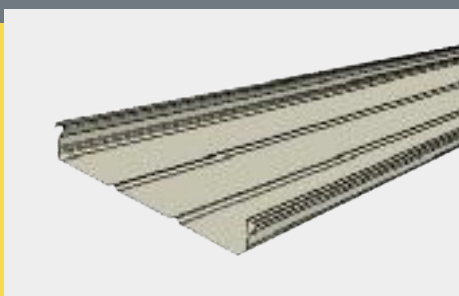
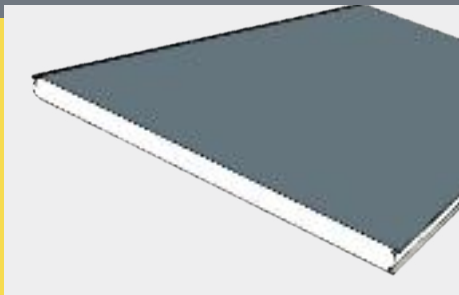
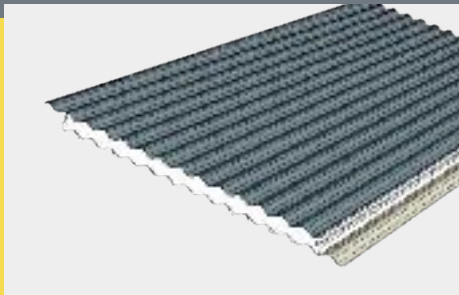
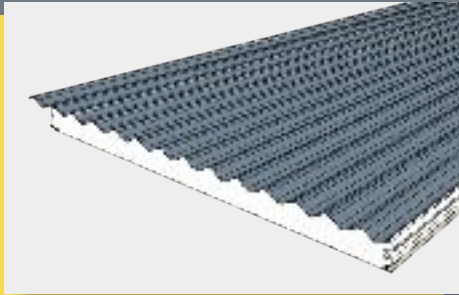
Website: www.deltapanel.com

Address: 2828 Ipswich Road, Darra, Qld. 4076

ABN: 11 147 861 292

Version Date: 09.12.2018





THE DELTA PANELS DIFFERENCE

Delta Panels™ is an ISO 9001:2015 certified manufacturer of Insulated Panel and Patio Systems.

We have a strong focus on outstanding Customer Service and Quality. This is achieved through state of the art machinery and an exceptional team, dedicated to giving you the best solution for your building project.

We manufacture a wide range of Panel solutions, including Roof, Wall and Patio products, plus a wide range of accessories.

Rely on Delta Panels™ for your next project, and discover the Delta Difference.

THE INSULATED ADVANTAGE

- Large spans, reducing the need for expensive framework
- Up to 50% faster installation time compared to traditional roofing methods
- A complete solution for roofing, including roof, insulation and ceiling
- Continue the smooth ceiling look from inside your house, to your outdoor space
- Reduce heat transfer on hot days to improve your comfort
- Walling made easy with both exterior and interior walls, with insulation
- High R Values for thermal efficiency and compliance with the latest building codes
- Durable, long lasting, and low maintenance
- Insulated Cores options available, Expanded Polystyrene Fire Retardant Grade (EPS-FR), Polyisocyanurate (PIR) & Mineral Wool (MW)

PEACE OF MIND FOR YEARS TO COME

When you purchase a Delta Panels™ Roof, or Patio solution, you are purchasing peace of mind for many years to come. That's why Delta Panels™ backs its Roof products with a **Written 15 Year Warranty***.

Now you can build with confidence, knowing that your project will stand the test of time.

* Conditions Apply.

Refer to the Delta Panels™ website for further information.



THE DELTA RANGE

DELTA PATIO & ROOFING RANGE

DeltaTrim™	4-5
DeltaOrb™	6-7
DeltaCorro/Corro™	8-9
DeltaSingle™	10-11
Delta DIY Kits	12-13
DeltaMax™	14
Accessories Flashings and Posts	15
DeltaXtremeBeams™	16-17
Timber Post & Beams	18-19
P/V Solar Panels	20-21
Delta Skylights	22-23
DeltaLowProfile Light™	24-25
DeltaPanel Light	26
DeltaLum LED Light™	27

DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

DeltaCool™ - Coldrooms	28-29
Coldroom Accessories	30-31
DeltaCool™ - Architectural & Housing	32-33
Insulated Core Options	34-35
Joiner & Facer Options	36-37
Testing	38

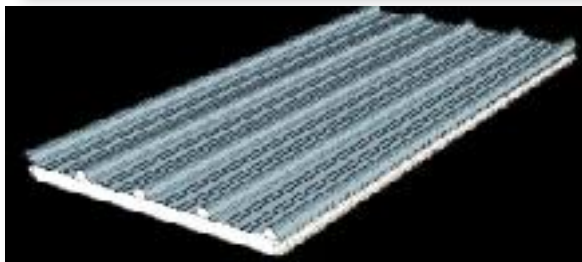
Reference Library	39
-------------------	----

COLOUR SELECTION

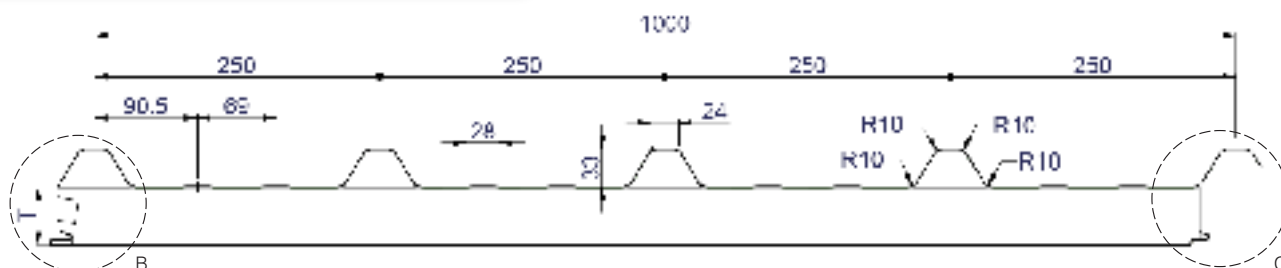
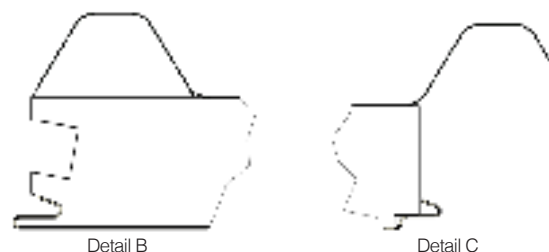
Colour Chart	40
--------------	----

DeltaTrim™

- Longer panel spans and increased strength due to a higher rib height
- Available in 2 Insulated Core options, Expanded Polystyrene Fire Retardant Grade (**EPS-FR**), & Polyisocyanurate (**PIR**), to suit the specific requirements of your project
- Wide 1000mm panel for faster installation and less visible joints
- Smooth ceiling finish extends inside living to the outside world
- Foam filled roof peaks reduce condensation and corrosion
- Angled cable duct holds electrical cables in place during installation
- Certified as BAL-40 as per AS-3959-2009, please refer to Page 38 testing for full certification details.
- Larger radius corners on ribs improve durability and reduce paint cracking
- Wide range of classic and contemporary colours to match any existing structure
- Written 15 Year Warranty for true peace of mind
- Polyisocyanurate - PIR is Factory Mutual Approved



Steel Skin Details	Top Skin	0.42mm / G550 AZ150
	Bottom Skin	0.60mm / G300 Z275
Core Material Options	- SL Grade Polystyrene - Fire Retardant Grade - Polyisocyanurate - PIR	
Thermal Conductivity	- EPS-FR @ 22.5c - 0.037 W/mK - PIR @ 23.0c - 0.232 W/mK	
Adhesive	Thermosetting two-part adhesive	
EPS-FR Panel Weight (kg/m²)	50mm Panel	10.58
	75mm panel	10.94
	100mm Panel	11.17
	150mm Panel	12.23
PIR Panel Weight (kg/m²)	50mm Panel	12.58
	75mm Panel	13.88
	100mm Panel	15.17
	150mm Panel	18.23
EPS-FR R Value @ 22.5°C	50mm Panel	1.4
	75mm panel	2.1
	100mm Panel	2.7
	150mm Panel	4.1
PIR R Value @ 23.0°C	50mm Panel	2.16
	75mm panel	3.23
	100mm Panel	4.31
	150mm Panel	6.47
Sheet Coverage	1000mm	
Length (mm)	Cut to length. Min. of 1500mm	
Thickness (mm)	50, 75, 100, 125, 150, 200, 225, 250	
Minimum Roof Pitch	2°	

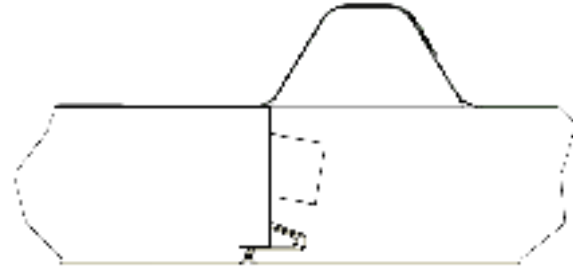


DELTA PATIO & ROOFING RANGE



DeltaTrim™ Acoustic Values

Frequency		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
	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
	STC	24.00	23.00
	RW	25.00	24.00



Detail A

**Early Fire Hazard Properties AS 1530.3 1989
EPS-FR Panel**

Index	Test Range	External Top Skin	Exposed Core
Ignitability	0-20	0	12
Spread of Flame	0-10	0	9
Heat Evolved	0-10	0	7
Smoke Developed	0-10	1	7

DeltaTrim™ Fixing Details

Crest fixing only. One fixing every second crest

Panel Thickness (mm)	Fixing into Steel	Fixing into Timber
50	Tek 14 x 135 Hex Head Screw	T17 14 x 125 Hex Head Screw
75	Tek 14 x 150 Hex Head Screw	T17 14 x 150 Hex Head Screw
100	Tek 14 x 175 Hex Head Screw	T17 14 x 175 Hex Head Screw
125	Tek 14 x 200 Hex Head Screw	T17 14 x 200 Hex Head Screw
150	Tek 14 x 230 Hex Head Screw	T17 14 x 230 Hex Head Screw
175	Tek 14 x 260 Hex Head Screw	T17 14 x 265 Hex Head Screw

DeltaTrim™ 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 **DeltaTrim™**.

DeltaTrim™ is classed as traficable when used in a roof application.

* Use Cyclone Plate and Neo Washer on each fixing

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

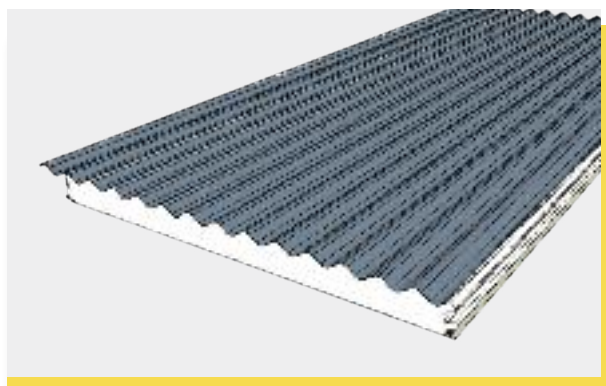
DELTA PATIO & ROOFING RANGE



DeltaOrb™ offers classical corrugated lines, with all of the benefits of modern Insulated Panel technologies.

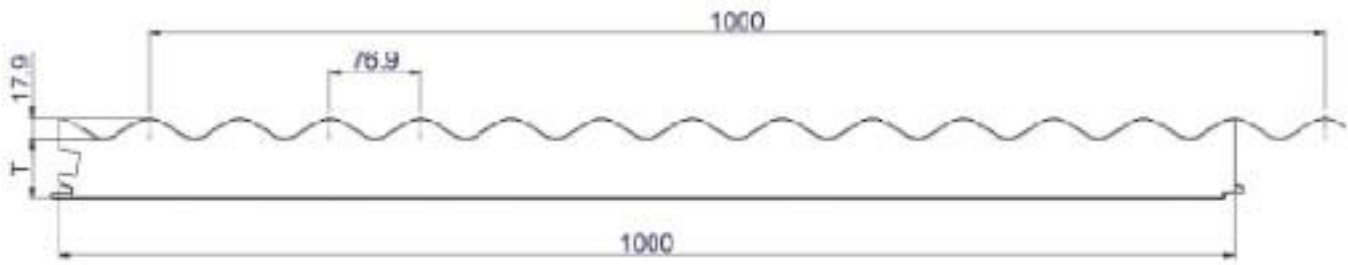
- Longer panel spans and increased strength due to a deeper profile
- Available in 2 Insulated Core options, Expanded Polystyrene Fire Retardant Grade (**EPS-FR**), & Polyisocyanurate (**PIR**), to suit the specific requirements of your project
- Wide 1000mm panel for faster installation and less visible joins
- Smooth ceiling finish extends inside living to the outside world
- Foam filled roof corrugations reduce condensation and corrosion
- Angled cable duct holds electrical cables in place during installation
- Certified as BAL - 40 as per AS -3959-2009, please refer to Page 38 testing for full certification details.
- Maintain the traditional character of Australian roofing
- Wide range of classic and contemporary colours to match any existing structure
- Written 15 Year Warranty for true peace of mind

* Download technical data information from the Delta Panels™ website



Steel Skin Details	Top Skin	0.42mm / G550 AZ150
	Bottom Skin	0.60mm / G550 AZ150
Core Material Options	- SL Grade Polystyrene - Fire Retardant Grade - Polyisocyanurate - PIR	
Thermal Conductivity	- EPS-FR @ 22.5c - 0.037 W/mK - PIR @ 23.0c - 0.232 W/mK	
Adhesive	Thermosetting two-part adhesive	
EPS-FR Panel Weight (kg/m²)	50mm Panel	10.58
	75mm panel	10.94
	100mm Panel	11.17
	150mm Panel	12.23
PIR Panel Weight (kg/m²)	50mm Panel	12.58
	75mm Panel	13.88
	100mm Panel	15.17
	150mm Panel	18.23
EPS-FR R Value @ 22.5°C	50mm Panel	1.40
	75mm panel	2.10
	100mm Panel	2.70
	150mm Panel	4.10
PIR R Value @ 23.0°C	50mm Panel	2.16
	75mm panel	3.23
	100mm Panel	4.31
	150mm Panel	6.47
Sheet Coverage	1000mm	
Length (mm)	Cut to length. Min. of 1500mm	
Thickness (mm)	50, 75, 100, 125, 150	
Minimum Roof Pitch	3°	

DELTA PATIO & ROOFING RANGE



DeltaOrb™ Acoustic Values

Frequency		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
	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
	STC	24.00	23.00
	RW	25.00	24.00

DeltaOrb™ 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™**.

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

Early Fire Hazard Properties AS 1530.3 1989

DeltaOrb™ Panel

Index	Test Range	External Top Skin	Exposed Core
Ignitability	0-20	0	12
Spread of Flame	0-10	0	9
Heat Evolved	0-10	0	7
Smoke Developed	0-10	1	7

DeltaOrb™ Fixing Details

Crest fixing only. One fixing every second crest

Panel Thickness (mm)	Fixing into Steel	Fixing into Timber
50	Tek 14 x 135 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

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

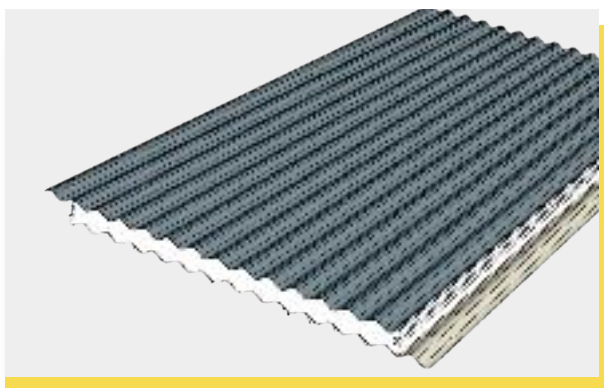
DELTA PATIO & ROOFING RANGE

DeltaCorro-Corro™

DeltaCorroCorro™ offers double-sided classical corrugated lines, with all of the benefits of modern Insulated Panel technologies.

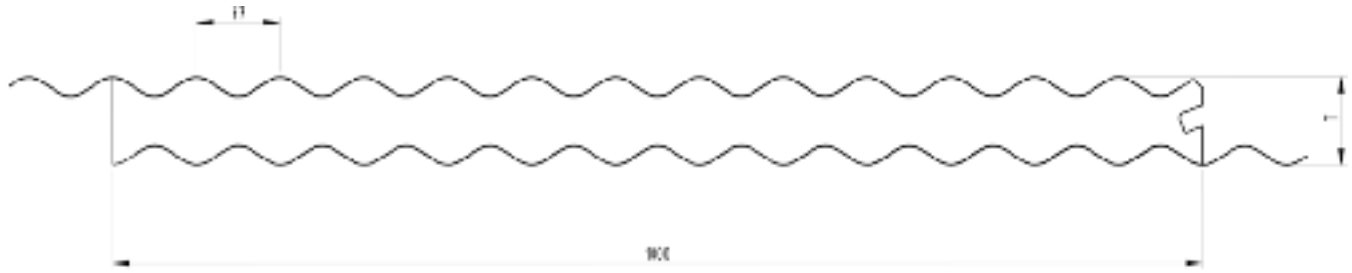
- Incredible spans and increased strength due to a deeper profile
- Available in 2 Insulated Core options, Expanded Polystyrene Fire Retardant Grade (EPS-FR), & Polyisocyanurate (PIR), to suit the specific requirements of your project
- Wide 1000mm panel for faster installation and less visible joints
- Classical corrugated appearance on both sides for a striking aesthetic
- Foam filled roof corrugations reduce condensation and corrosion
- Angled cable duct holds electrical cables in place during installation
- Impressive insulating and sound dampening properties
- Perfect for large multi-residential or commercial applications
- Wide range of classic and contemporary colours to match any existing structure
- Written 15 Year Warranty for true peace of mind

* Download technical data information from the Delta Panels™ website



Steel Skin Details	Top Skin	0.40mm / G550 AZ150
	Bottom Skin	0.40mm / G550 AZ150
Core Material Options	- SL Grade Polystyrene - Fire Retardant Grade - Polyisocyanurate - PIR	
Thermal Conductivity	- EPS-FR @ 22.5c - 0.037 W/mK - PIR @ 23.0c - 0.232 W/mK	
Adhesive	Thermosetting two-part adhesive	
EPS-FR Panel Weight (kg/m²)	75mm Panel	12.85
	100mm panel	13.25
	125mm Panel	13.77
	140mm Panel	14.04
	175mm Panel	14.69
PIR Panel Weight (kg/m²)	75mm Panel	15.3
	100mm panel	16.3
	125mm Panel	17.8
	140mm Panel	19.3
	175mm Panel	24.1
EPS-FR R Value @ 22.5°C	75mm Panel	1.61
	100mm panel	2.26
	125mm Panel	2.66
	140mm Panel	3.56
	175mm Panel	4.10
PIR R Value @ 23.0°C	75mm Panel	3.23
	100mm panel	4.31
	125mm Panel	5.38
	140mm Panel	6.03
	175mm Panel	7.54
Sheet Coverage	1000mm	
Length (mm)	Cut to length. Min. of 1500mm	
Thickness (mm)	75, 100, 125, 140, 175, 200, 225, 250	
Minimum Roof Pitch	3°	

DELTA PATIO & ROOFING RANGE



DeltaCorroCorro™ Acoustic Values

Frequency		75mm	140mm
	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
	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
	STC	24.00	23.00
	RW	25.00	24.00

DeltaCorroCorro™ 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 **DeltaCorroCorro™**.

DeltaCorroCorro™ is classed as traficable when used in a roof application.

**Early Fire Hazard Properties AS 1530.3 1989
DeltaCorroCorro™ Panel**

Index	Test Range	External Top Skin	Exposed Core
Ignitability	0-20	0	12
Spread of Flame	0-10	0	9
Heat Evolved	0-10	0	7
Smoke Developed	0-10	1	7

DeltaCorroCorro™ Fixing Details

Crest fixing only. One fixing every second crest

Panel Thickness (mm)	Fixing into Steel	Fixing into Timber
75	Tek 14 x 115 Hex Head Screw	T17 14 x 125 Hex Head Screw
100	Tek 14 x 135 Hex Head Screw	T17 14 x 150 Hex Head Screw
125	Tek 14 x 150 Hex Head Screw	T17 14 x 175 Hex Head Screw
140	Tek 14 x 175 Hex Head Screw	T17 14 x 200 Hex Head Screw
175	Tek 14 x 200 Hex Head Screw	T17 14 x 230 Hex Head Screw
200	Tek 14 x 230 Hex Head Screw	T17 14 x 265 Hex Head Screw

* Use Cyclone Plate and Neo Washer on each fixing

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



DeltaSingle™

DeltaSingle™ allows you to create the perfect outdoor entertaining area that enhances your lifestyle, and adds value to your property.

- The new DeltaLum™ LED lighting system and DeltaSkylight are easily to install as components of the DeltaSingle™ roofing system
- Kits are available for Single & Double Carports
- Cost effective and stylish patio system when combined with DeltaBeam™
- Clip-together modules make DeltaSingle™ perfect as a DIY project

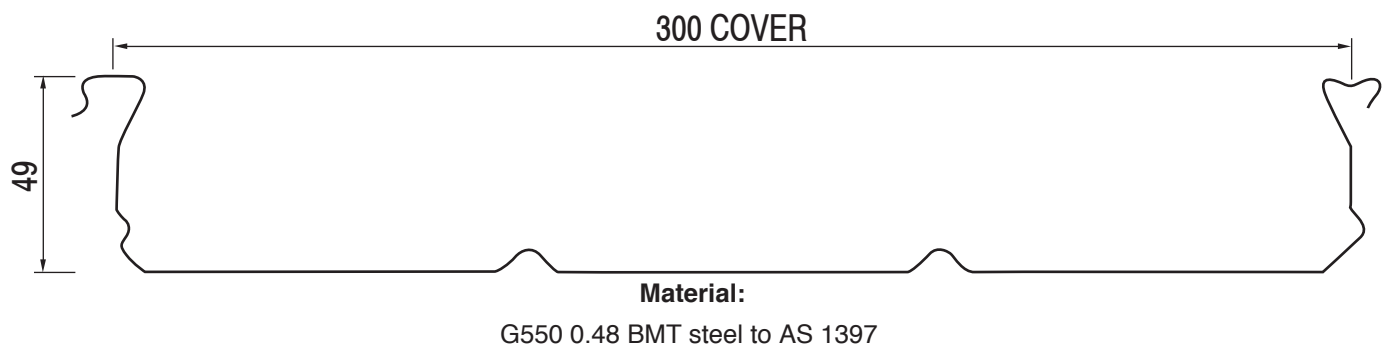
- 300mm wide roof modules allow for easy handling and fast installation
- Deep roofing profile creates strength and allows for greater spans
- Ceiling profile combines the elegance of VJ panelling with a clean, modern appearance
- Available in popular high-gloss colours to complement your house
- Written 15 Year Warranty for true peace of mind

* Download technical data information from the Delta Panels™ website

Colour Range - DeltaSingle™		
Roof Colour	Ceiling Colour	
Off White/Surfmist ®	Off White/Surfmist ®	● *
Smooth CreamClassic Cream™	Smooth CreamClassic Cream™	● *
Merino/Paperbark ®	Merino/Paperbark ®	● *
Slate GreyWoodland Grey ®	Offwhite/Surfmist	● *
Monolith/Monument ®	Offwhite/Surfmist	● *
Birch/Dune ®	Thredbo White	● *

* Note: DeltaSingle™ colours are 80% gloss level on the ceiling, standard gloss level on the roof.

DELTA PATIO & ROOFING RANGE



General Notes

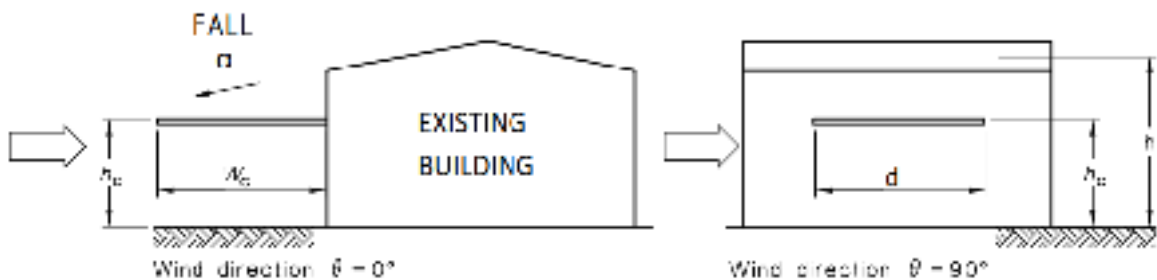
1. DeltaSingle™ sheeting & DeltaBeam™ to be used for external non-habitable applications only.
2. Sheeting & beam spans are not adequate for any additional imposed loads, including foot traffic.
3. Design wind class is to be determined in accordance with AS4055:2012 - Wind loads for housing.
4. Structural adequacy of the structure to which the sheeting and/or beam are attached is to be checked by a qualified engineer.
5. Any side of new roofing with more than 50% of clear area from ground to sheeting blocked is considered to be an enclosing wall.

Single Spans (mm)

Wind Category	Sheet Thickness	3 Sides Open	2 Sides Open	1 Side Open
N2 (W33)	0.48	3920	3280	2990
N3 (W41)	0.48	3130	2620	2390
N4 (W50)	0.48	2570	2150	1960

Steel Skin Details	0.48mm / G550 AZ150
Sheet Coverage	300mm
Length (mm)	Cut to length. Min. of 1500mm
Minimum Roof Pitch	1°

Roof Dimension



DELTA PATIO & ROOFING RANGE



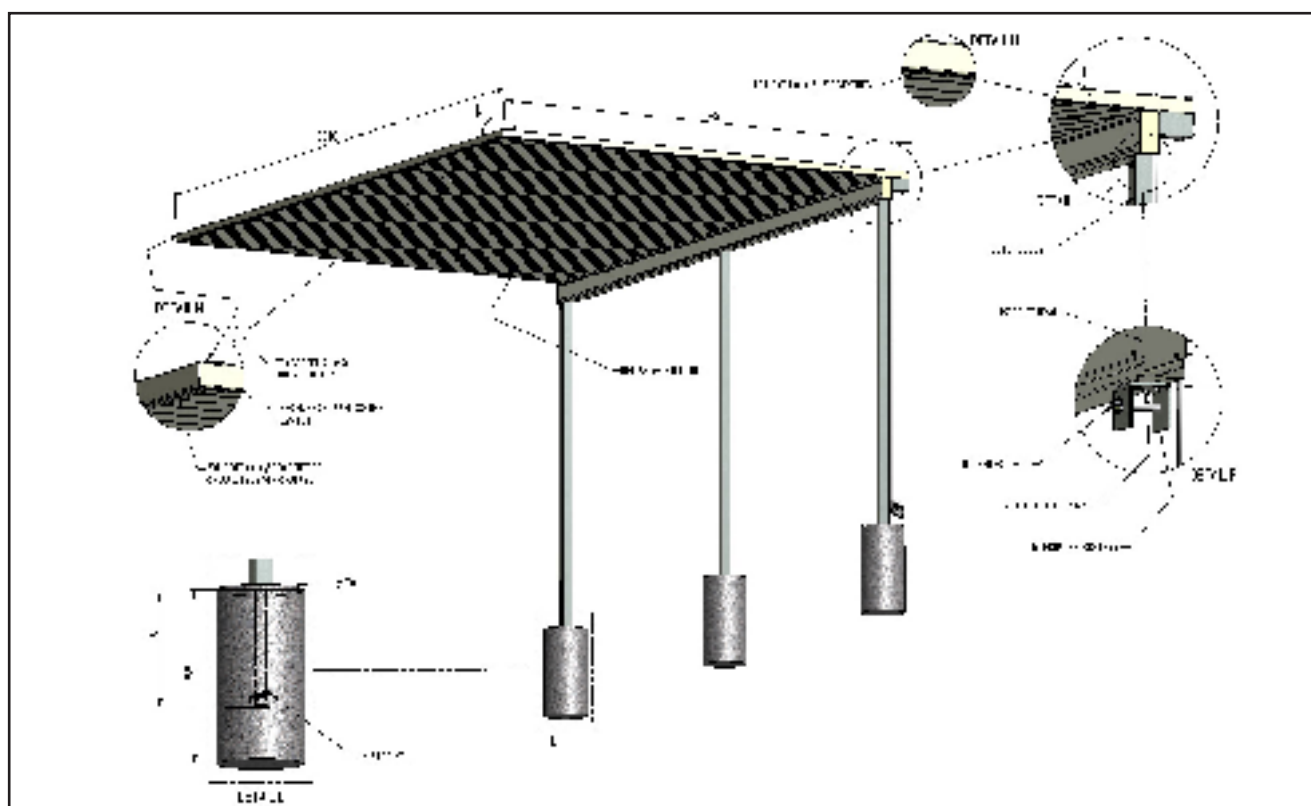
Product Details

Delta Panels™ has an extensive range of fully engineered DIY kits covering stand-alone Carports and Awnings that are attached to an existing structure.

Product Features

- The stand-alone Carport range covers both single and double vehicle size
- A single carport sized awning is available that can be affixed to an existing structure
- Designed to be affixed directly to an existing concrete slab or with posts cemented into the ground.
- Engineered to cover Wind Speed classifications N1-N4 and C1-C3.
- Utilises DeltaSingle™ cladding, the posts and beams are all supplied pre-painted
- All guttering and fixings supplied as part of the Kit

Product Examples

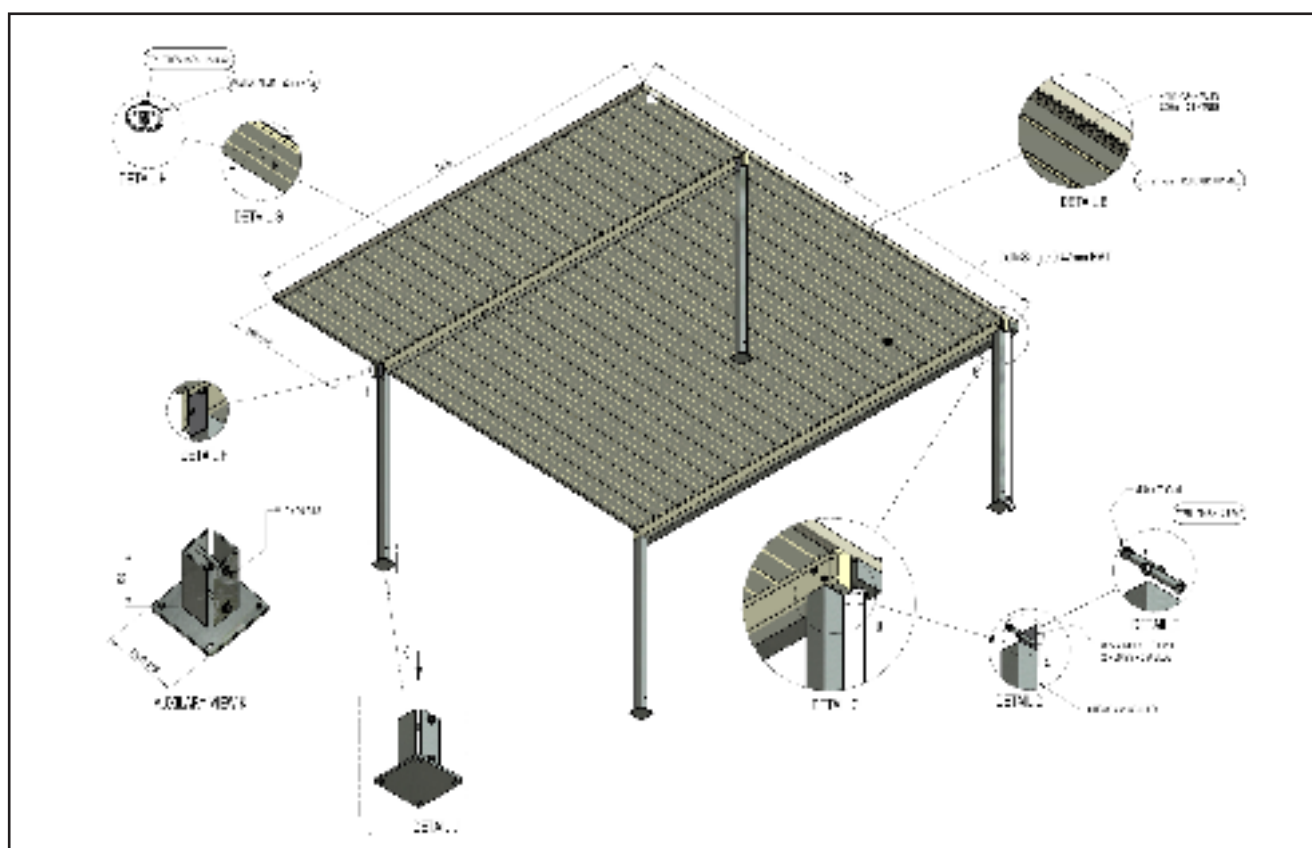
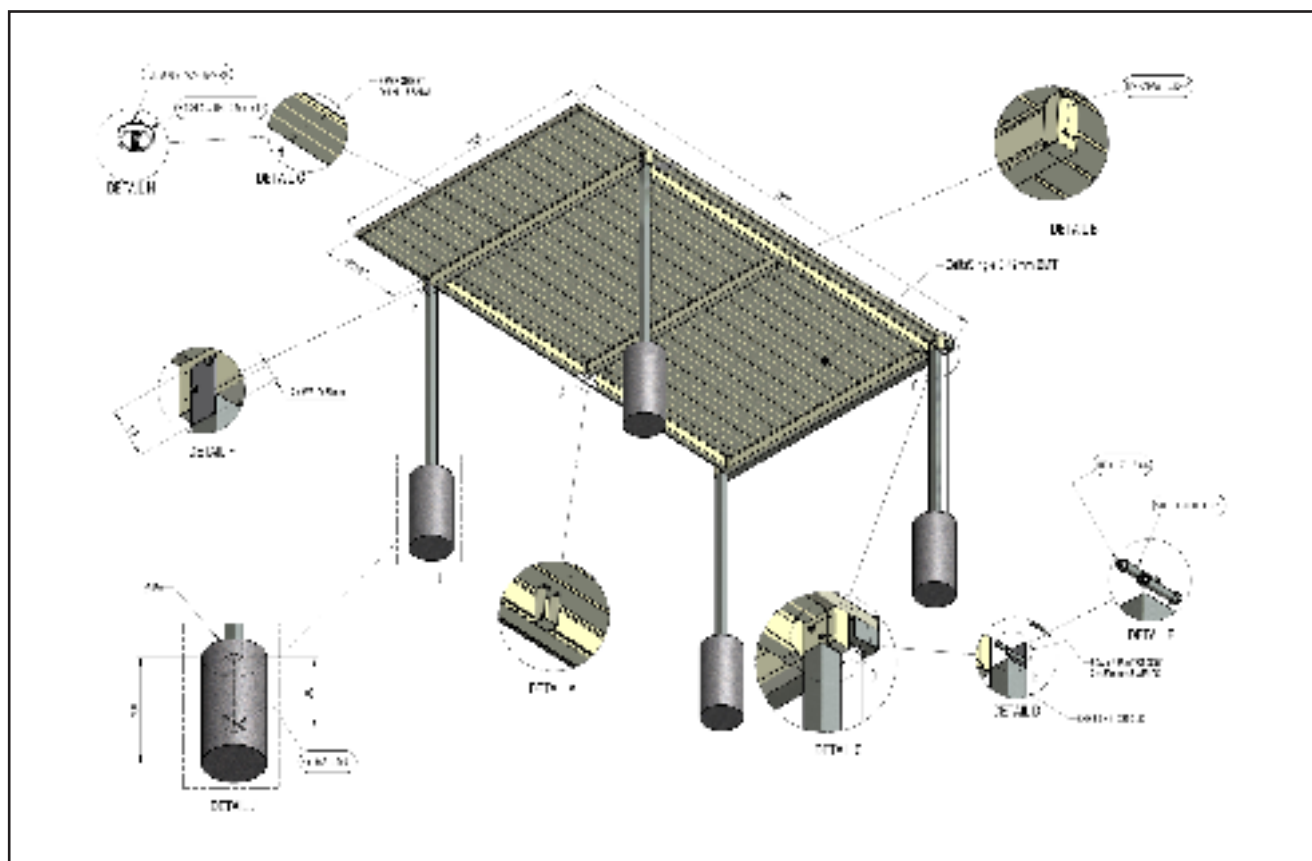


Product Range

Carport/Awning Attached to a Structure		
Wind Zone Classification	Single	Single
	Fixed to Slab	Post Hole
N1/N2/N3	X	X
N4	X	X

Carport Stand-Alone				
Wind Zone Classification	Single	Single	Double	Double
	Fixed to Slab	Post Hole	Fixed to Slab	Post Hole
N1/N2	X	X	X	X
N3	X	X		X
N4		X		X

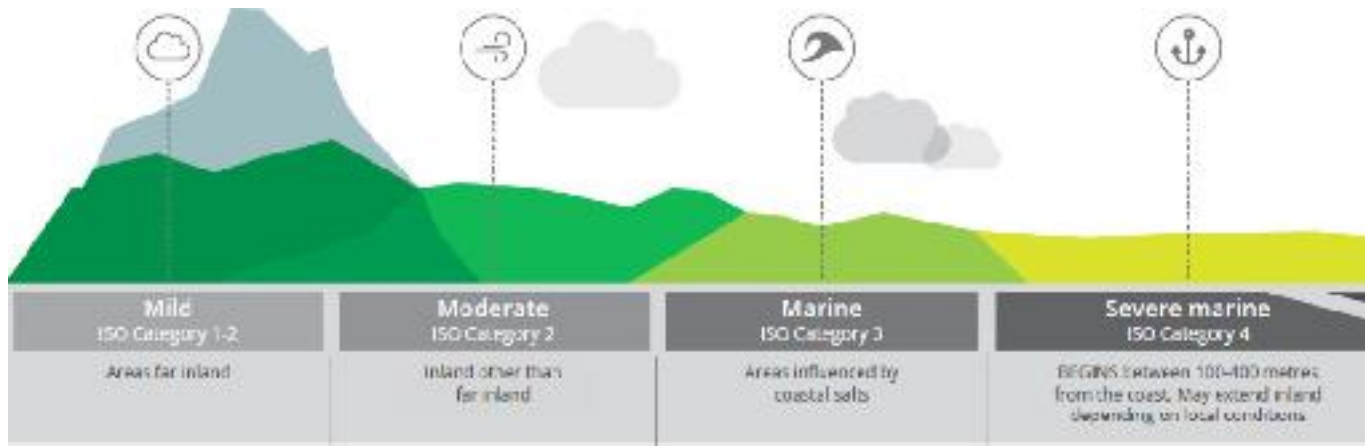
DELTA PATIO & ROOFING RANGE



DELTA PATIO & ROOFING RANGE



SITE SPECIFIC WARRANTIES UP TO
25 YEARS AVAILABLE UPON REQUEST



DeltaMax™ is a steel substrate that provides greater corrosion resistance and a longer working life in demanding environmental conditions.

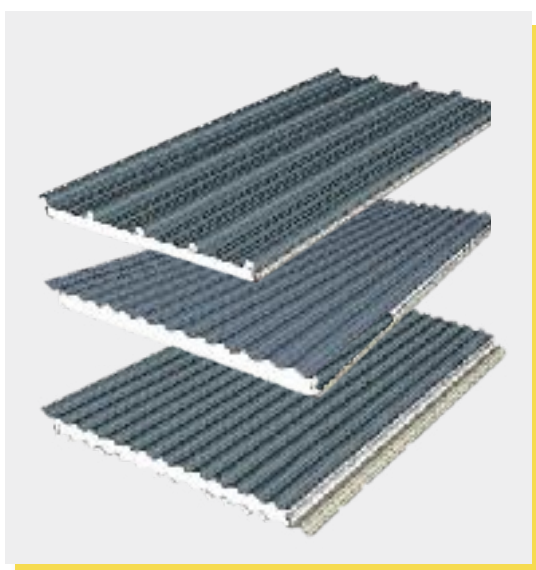
It is available across the DeltaTrim™, DeltaOrb™ and DeltaCorroCorro™ product ranges.

Site specific warranties are available on request.

Recommendations

- Patios, Pergolas and Carports near coastal conditions or canals
- Commercial buildings near coastal conditions
- Portable Buildings
- Spray Booths
- Wineries
- Industrial buildings near corrosive elements

Steel Skin Details	Top Skin	Bottom Skin
DeltaTrim™	0.40mm / G550 ZM275	0.55mm / G300 ZM275
DeltaOrb™	0.40mm / G550 ZM275	0.55mm / G300 ZM275
DeltaCorroCorro™	0.40mm / G550 ZM275	0.40mm / G300 ZM275
ISO Categories	3-5	
Metallic Coating Weight (gms)	275	
Example Warranty (Site Specific)	ISO 4, Calm	
	Perforation	25 Years
	Flake / Peel	20 Years
	Excessive Fade	20 Years



Colorcote® and Magnaflow™ are both trademarks of Fletcher Steel Ltd. Colorcote® imagery and graphics are copyright and intellectual property of Fletcher Building Limited

FLASHING, ACCESSORIES & POSTS

SOLAR PANEL ATTACHMENTS

Delta Panels™ supplies a range of mounting brackets designed to attached P/V Solar panels to our range of insulated roofing panels. The brackets are suitable for use on DeltaTrim™, DeltaOrb™ & DeltaCorro/Corro™ panels and designed to compliment the mounting frames supplies with the Solar Panel kits.

All brackets are manufactured from 1.5mm, 304 2B Stainless Steel making them corrosive resistant and suitable for coastal applications.

Please refer to the Delta Panels™ web page for the full P/V Solar Panel Installation Brochure for details regarding appropriate fixings for each wind zone classification.

ATTACHMENT BRACKETS & SUPPORTS

Every house, and every patio – no matter what style of DeltaSingle™ patio you choose, Delta Panels™ has all of the brackets and supports needed to complete your job.

Fully engineered, and available in stock, contact Delta Panels™ today and ask about our attachment brackets, posts and accessories.

FLASHINGS & RAINWATER ACCESSORIES

Delta Panels™ offers a wide range of flashings and rainwater accessories, ready for your next project.

Choose from a huge range of standard flashing designs, or specify your own to suit.

A range of gutter profiles are also available, with a selection of downpipes to suit.

FIXINGS

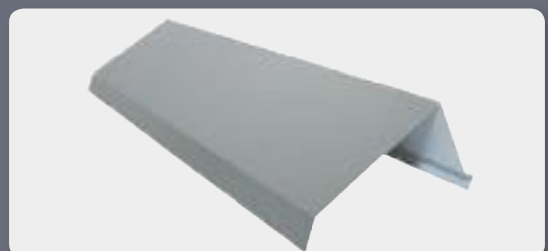
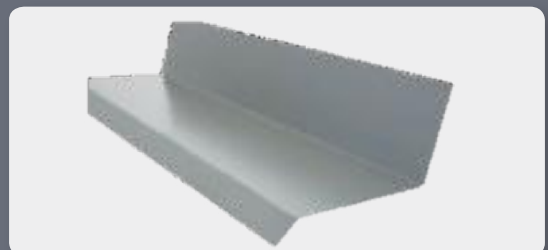
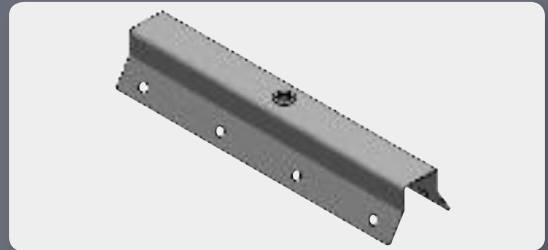
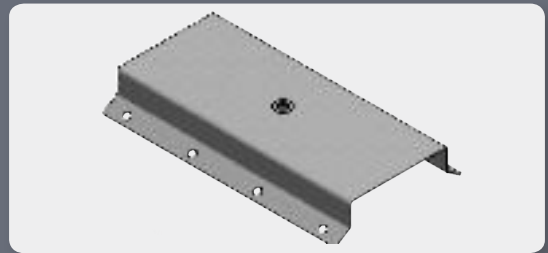
Delta Panels™ stocks all of the fixings required to complete your Insulated Panel job, in a range of colours.

POSTS

A range of posts, with all required fixings are available for your next project. Choose from our standard colour range, or powder-coat your own to meet your requirements.

& MORE!

Delta Panels™ is always adding new products to our range. Contact us today to see how we can help you!





DeltaXtremeBeam

Product Details

DeltaBeams™ are available in 5 sizes allowing for maximum design flexibility. They are engineered and tested to comply with Australian Standard 1397/G550. All DeltaBeams™ are manufactured from strong high tensile steel in a range of contemporary colours allowing for long unsupported spans.

DeltaBeam™ Specifications

Manufactured from high tensile steel, DeltaBeam™ is engineered and tested to comply with Australian Standard 1397/G550. Major components are made from strong high tensile steel, while the fixings and brackets are galvanised for a long, useable life.

DeltaMax™ is now available in 150mm & 200mm SurfMist DeltaBeam™ with site specific warranties up to 25 years.

DeltaBeam™ Specifications					
	100	150	200	250	300
Base Metal Thickness	1.0mm	1.2mm	1.2mm	1.6mm	1.6mm
Yield Strength	550MPa	550MPa	550MPa	550MPa	550MPa
Mass	4.1kg/m	5.7kg/m	7.8kg/m	10.4kg/m	11.7kg/m

** Refer to Delta Span Tables for design and spanning details.*

Product Features

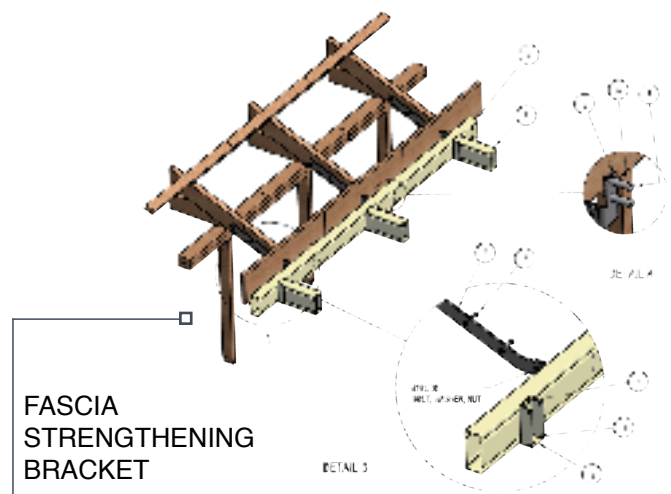
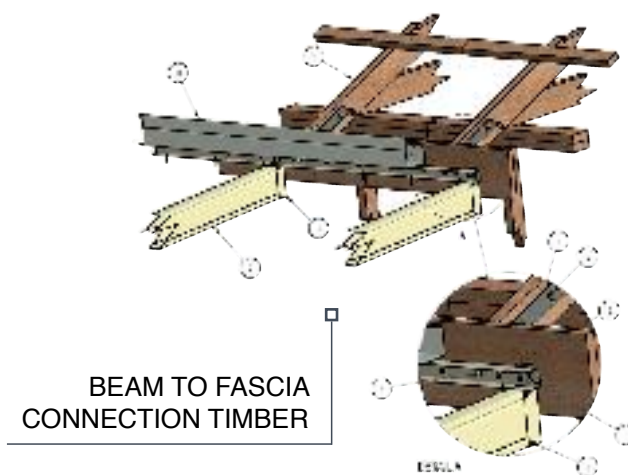
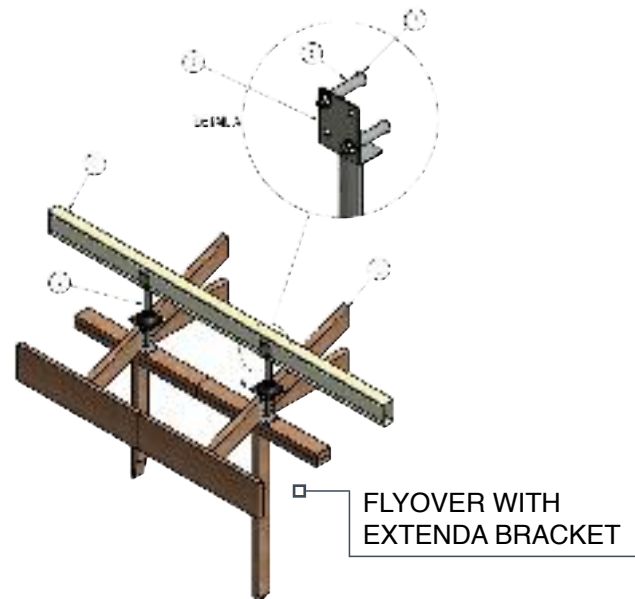
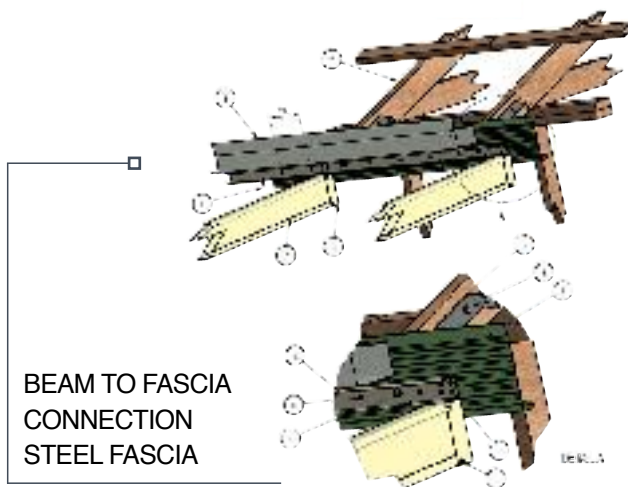
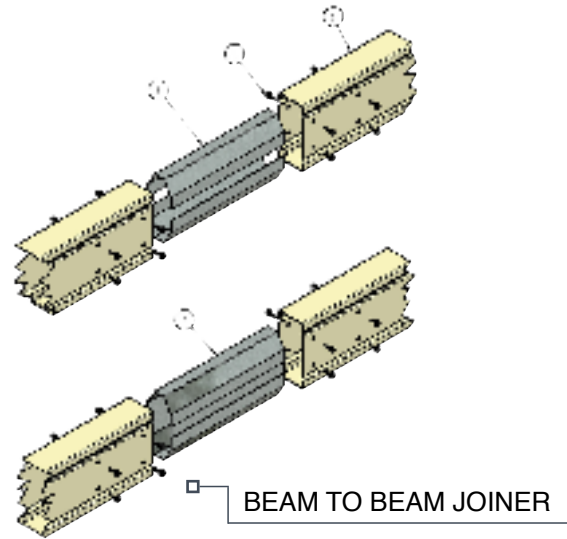
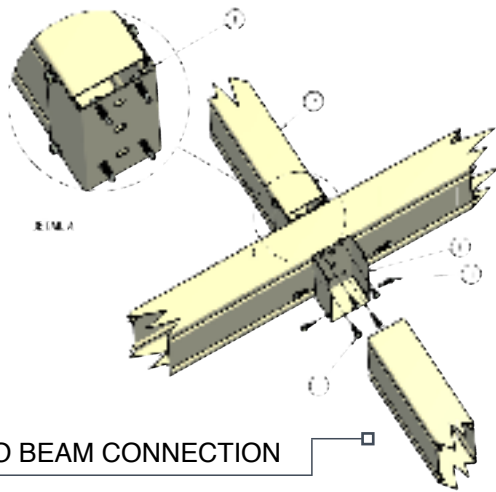
- Wide range of colour finishes available
- 5 different sizes available
- DeltaXtremeBeam™ now available in 250mm and 300mm for extra long unsupported spans
- Two-piece construction giving extra strength and spanning
- Cut to length
- Has a wide range of colour-matched accessories for quick and easy onsite assembly
- 150mm & 200mm SurfMist DeltaBeam™ is now available in DeltaMax™, with site specific warranties up to 25 years.

Colour Availability					
	100	150	200	250	300
SurfMist	•	•	•	•	•
* SurfMist DeltaMax™		•	•		
Smooth Cream	•	•	•	•	•
Merino	•	•	•	•	•
Ebony	•	•	•	•	•
Aluzinc	•	•	•	•	•

** DeltaMax™ is only available in 1.0mm BMT*

DELTA PATIO & ROOFING RANGE

Connection Details



DeltaMax™, DeltaBeam™ & DeltaXtremeBeam™ are all registered trademarks of Delta Panels Pty Ltd.

DELTA PATIO & ROOFING RANGE



TIMBER POST & BEAMS

Product Details

Delta Panels™ have a range of laminated hardwood post & beams that are specifically designed to suit our DeltaTrim™, DeltaOrb™ & DeltaCorro/Corro™ range of insulated roofing panels.

Product Features

- High quality timber products created by end-jointing small pieces of Merbau/Kwila
- Available in lengths up to 8 metres, with predictable strength
- Thicknesses available in 35mm, 42mm 65mm & 80mm
- Beam Depths available in 70mm, 90mm 115mm, 140mm, 165mm, 190mm, 240mm & 290mm
- Engineered for wind zones up to N3 and C2
- Can be used in externally exposed environments
- Termite resistant

Timber Specifications

- Timber: Merbau/Kwila Intsia bijuga
- Moisture: 12-16%
- Strength: GL17
- Adhesive: Phenol Resorcinol Formaldehyde
- Service Class: Suitable for Class 3 environments
- Appearance grade: A
- Durability: Class1. Life expectancy 40 years+

Verandah Posts Sheet Roof N3/C2

Roof & Ceiling - Roof Load Area up to 3.0m²

Size (mm)	Floor Area Supported (m ²)						
	0.0	1.0	2.0	3.0	4.0	6.0	8.0
90x90	5.0	5.0	4.0	3.3	2.9	2.4	2.0
100x100	5.0	5.0	4.8	4.1	3.6	2.9	2.5
115x115	5.0	5.0	5.0	5.0	4.7	3.9	3.4
140x140	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Roof & Ceiling - Roof Load Area up to 6.0m²

Size (mm)	Floor Area Supported (m ²)						
	0.0	1.0	2.0	3.0	4.0	6.0	8.0
90x90	5.0	4.9	3.9	3.2	2.8	2.3	2.0
100x100	5.0	5.0	4.8	4.0	3.5	2.9	2.5
115x115	5.0	5.0	5.0	5.0	4.7	3.9	3.4
140x140	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Roof & Ceiling - Roof Load Area up to 9.0m²

Size (mm)	Floor Area Supported (m ²)						
	0.0	1.0	2.0	3.0	4.0	6.0	8.0
90x90	5.0	4.3	3.8	3.2	2.8	2.3	2.0
100x100	5.0	5.0	4.6	3.9	3.5	2.9	2.5
115x115	5.0	5.0	5.0	5.0	4.6	3.8	3.3
140x140	5.0	5.0	5.0	5.0	5.0	5.0	5.0

* Post height values are in metres

DELTA PATIO & ROOFING RANGE

Verandah Beams - Light Sheet Roofing N1/2

Supporting Light Sheet Roofing Only

Size (mm)	Single Span - Roof Load Width (m)					
	0.6	1.2	1.8	2.4	3.0	3.6
90x42	2.7	2.7	2.6	2.3	2.1	1.9
115x42	3.6	3.6	3.3	2.9	2.7	2.5
140x42	4.4	4.4	4.0	3.6	3.3	3.0
165x41	5.1	5.0	4.5	4.1	3.8	3.5
190x42	5.9	5.5	5.0	4.6	4.3	4.0
240x42	7.3	6.4	5.9	5.4	5.1	4.8
265x42	7.7	6.9	6.3	5.8	5.5	5.2
290x42	8.2	7.3	6.7	6.2	5.8	5.5
140x65	5.0	4.8	4.4	4.0	3.7	3.4
190x65	6.6	5.9	5.4	5.0	4.7	4.5
240x65	7.6	6.9	6.4	5.9	5.6	5.3
290x65	8.5	7.8	7.2	6.8	6.4	6.1
140x80	5.4	5.0	4.6	4.2	4.0	3.7
190x80	6.8	6.1	5.6	5.2	4.9	4.7
240x80	7.8	7.1	6.6	6.2	5.8	5.5
290x80	8.7	8.0	7.5	7.0	6.6	6.3

Verandah Beams - Light Sheet Roofing C1/2

Supporting Light Sheet Roofing Only

Size (mm)	Single Span - Roof Load Width (m)						
	0.6	1.2	1.8	2.4	3.6	4.8	6.0
90x42	2.7	2.3	1.9	1.6	1.3	1.2	1.0
115x42	3.6	2.9	2.4	2.1	1.7	1.5	1.3
140x42	4.4	3.6	3.0	2.6	2.1	1.8	1.6
165x41	5.1	4.2	3.5	3.1	2.5	2.2	1.9
190x42	5.9	4.9	4.1	3.5	2.9	2.5	2.2
240x42	7.3	6.0	4.9	4.2	3.5	3.0	2.7
265x42	7.7	6.4	5.2	4.5	3.7	3.2	2.9
290x42	8.2	6.7	5.5	4.7	3.9	3.4	3.0
140x65	5.0	4.1	3.6	3.2	2.6	2.3	2.0
190x65	6.6	5.6	4.9	4.4	3.6	3.1	2.8
240x65	7.6	6.9	6.2	5.6	4.6	4.0	3.5
290x65	8.5	7.8	7.2	6.8	5.5	4.8	4.3
140x80	5.4	4.4	3.9	3.5	2.9	2.5	2.3
190x80	6.8	6.1	5.3	4.8	4.0	3.5	3.1
240x80	7.8	7.1	6.6	6.1	5.1	4.4	3.9
290x80	8.7	8.0	7.5	7.0	6.1	5.3	4.8

Supporting Light Sheet Roofing Only

Size (mm)	Continuous Span - Roof Load Width (m)					
	0.6	1.2	1.8	2.4	3.0	3.6
90x42	3.1	3.1	3.0	2.6	2.4	2.2
115x42	4.0	4.0	3.9	3.4	3.0	2.8
140x42	4.9	4.9	4.8	4.1	3.7	3.4
165x41	5.8	5.8	5.7	4.9	4.4	4.0
190x42	6.6	6.6	6.3	5.7	5.1	4.7
240x42	8.4	8.1	7.4	6.8	6.2	5.7
265x42	9.3	8.7	7.9	7.3	6.8	6.2
290x42	10.1	9.2	8.4	7.8	7.3	6.7
140x65	5.6	5.6	5.5	5.1	4.7	4.3
190x65	7.7	7.5	6.8	6.3	5.9	5.6
240x65	9.6	8.7	8.8	7.5	7.0	6.7
290x65	10.7	9.8	9.1	8.5	8.0	7.6
140x80	6.1	6.1	5.7	5.3	5.0	4.7
190x80	8.2	7.7	7.1	6.6	6.2	5.9
240x80	9.8	8.9	8.3	7.8	7.3	7.0
290x80	10.9	10.1	9.4	8.8	8.4	8.0

Supporting Light Sheet Roofing Only

Size (mm)	Continuous Span - Roof Load Width (m)						
	0.6	1.2	1.8	2.4	3.6	4.8	6.0
90x42	3.1	2.3	1.9	1.6	1.3	1.2	1.0
115x42	4.0	3.0	2.4	2.1	1.7	1.5	1.3
140x42	4.9	3.7	3.0	2.6	2.1	1.8	1.6
165x41	5.8	4.3	3.5	3.1	2.5	2.2	1.9
190x42	6.6	5.0	4.1	3.5	2.9	2.5	2.2
240x42	8.4	6.1	5.0	4.3	3.5	3.1	2.8
265x42	9.3	6.7	5.4	4.7	3.8	3.3	3.0
290x42	10.1	7.2	5.9	5.1	4.2	3.6	3.2
140x65	5.6	4.6	3.7	3.2	2.6	2.3	2.0
190x65	7.7	6.3	5.1	4.4	3.6	3.1	2.8
240x65	9.6	8.0	6.5	5.6	4.6	4.0	3.5
290x65	10.7	9.7	7.8	6.8	5.5	4.8	4.3
140x80	6.1	5.1	4.2	3.6	2.9	2.5	2.3
190x80	8.2	7.0	5.7	4.9	4.0	3.5	3.1
240x80	9.8	8.9	7.2	6.2	5.1	4.4	3.9
290x80	10.9	10.1	8.7	7.5	6.1	5.3	4.8

DELTA PATIO & ROOFING RANGE

Photovoltaic (PV) Solar Panels

Product Details

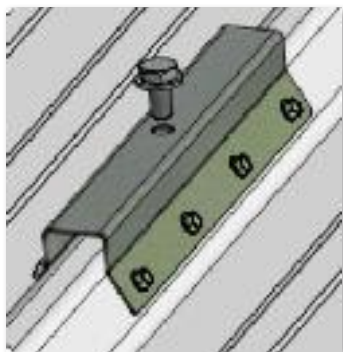
To accommodate the trend in roof mounted PV Solar Panels, Delta Panels™ have designed an engineering certified fixing bracket that is specifically suited for our DeltaTrim™, DeltaOrb™ & DeltaCorro/Corro™ range of insulated roofing panels.

Product Features

- Fully Engineered using 1.5mm hi-tensile steel
- Fixing brackets available to suit DeltaTrim™
- Fixing brackets available to suit DeltaOrb™ & DeltaCorro/Corro™
- Engineered to cover wind zones N1- N5 and C1 - C5
- Suitable for retro-fitting to existing insulated roofs
- Brackets manufactured from Stainless Steel offering durable weathering in all environments



Bracket Specifications



Bracket Details - DeltaTrim™



Bracket Details - DeltaOrb™
& DeltaCorro/Corro™



Bracket Fixing Details - DeltaTrim™ Panel

PV Solar Panel Installation Pitch Angle



Mounting Angle $\geq 40^\circ$

PV Solar Panel Positioning



Portrait Oriented Installation

DELTA PATIO & ROOFING RANGE



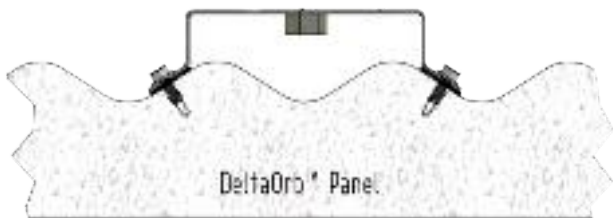
P/V Solar Panel Fixing Requirement Tables

- The fixing tables are specially engineered for PV solar panels of a maximum dimension of 1600mm x 900mm
- Rails must have the load weight of the PV solar cell distributed across numerous brackets

Portrait Solar Panel Fixing Requirements

All brackets to be screwed with 12g class 4 screws with seal.

Wind Class	Limit State Design Pressure (kPa)	Brackets / Panel @ 250mm crs	Screws / Brackets @ 250mm crs	Brackets / Panel @ 500mm crs	Screws / Brackets @ 500mm crs
N2	2.16	6	4	4	4
N3	3.32	6	4	4	4
N4	4.97	6	4	4	4
N5	7.14	6	6	4	8
C1	3.79	6	4	4	4
C2	5.64	6	6	4	8
C3	8.11	6	6	4	10
C4	11.04	6	10	N/A	N/A



Bracket Fixing Details - DeltaOrb™ Panel

Landscape Solar Panel Fixing Requirements

All brackets to be screwed with 12g class 4 screws with seal.

Wind Class	Limit State Design Pressure (kPa)	Brackets / Panel @ 250mm crs	Screws / Brackets @ 250mm crs	Brackets / Panel @ 500mm crs	Screws / Brackets @ 500mm crs
N2	2.16	10	4	6	4
N3	3.32	10	4	6	4
N4	4.97	10	4	6	4
N5	7.14	10	4	6	4
C1	3.79	10	4	6	4
C2	5.64	10	4	6	4
C3	8.11	10	4	6	4
C4	11.04	10	4	6	6



Landscape Oriented Installation

DELTA PATIO & ROOFING RANGE



DeltaSkylight

DeltaLum™ SkyLight lighting incorporates a translucent PVC extruded skylight with a unique patent protected inbuilt LED lighting system. This allows the patio and adjoining rooms to be bright both during the day and at night.

- Available in 5 different configurations that interlocks into the whole range of Delta Panels products namely, DeltaSingle™, DeltaTrim™, DeltaOrb™, DeltaCorro/Corro™ and DeltaCool™.
- Available in a range of light colour options, White, Cool and Soft White and RGB (for a multicolour display)
- Covered by Australian Innovation Patent Application No. 20181010435
- Dimable
- Remote control and wall mounted controller
- Low Voltage LED driver
- Minimal heat generated from the light fittings
- No loose hanging wires and brackets
- Written 5 Year Warranty

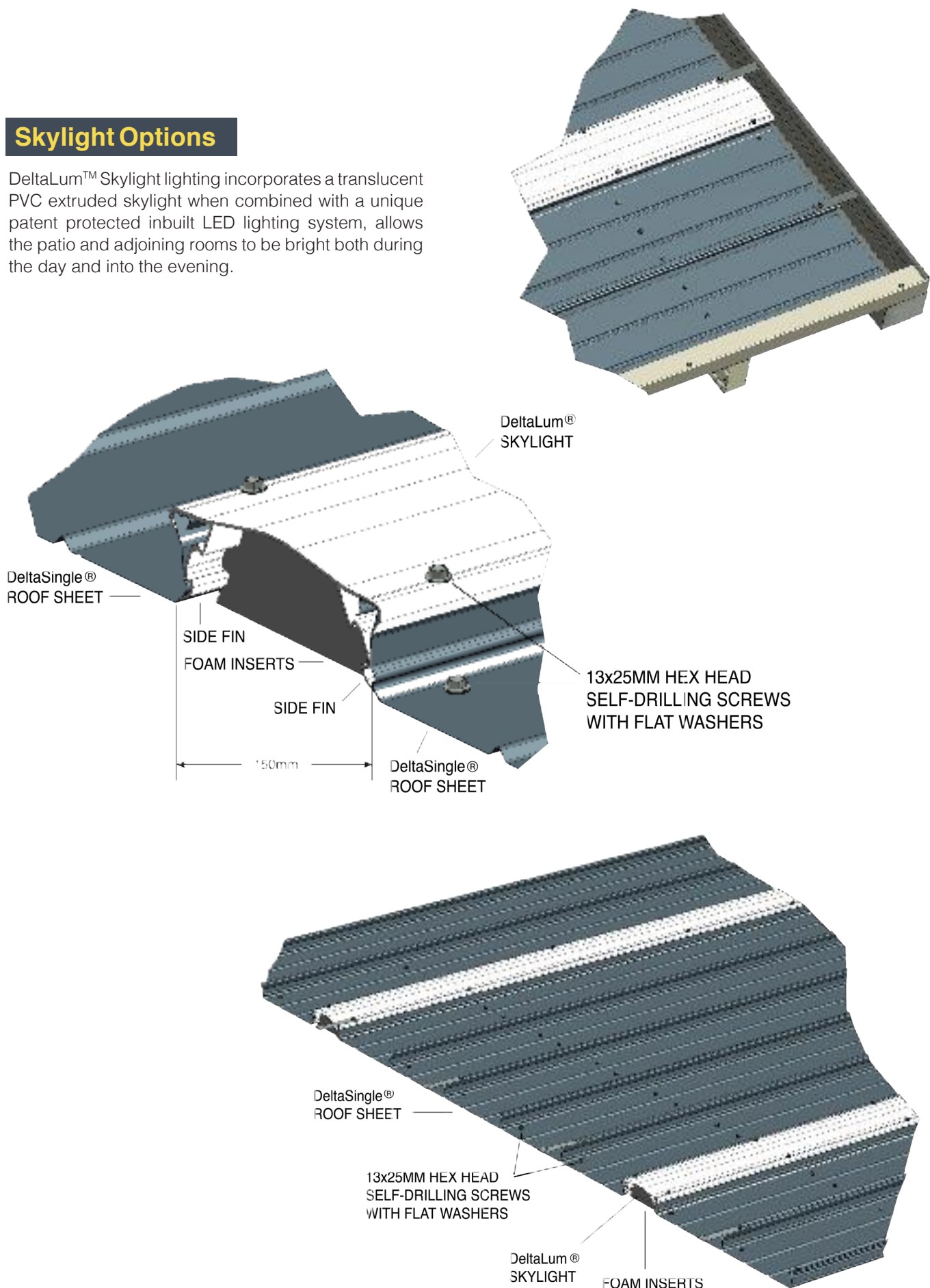
* Download technical data from the Delta Panels website



DELTA PATIO & ROOFING RANGE

Skylight Options

DeltaLum™ Skylight lighting incorporates a translucent PVC extruded skylight when combined with a unique patent protected inbuilt LED lighting system, allows the patio and adjoining rooms to be bright both during the day and into the evening.





DeltaLowProfile Light

Product Details

The DeltaLowProfile™ lights are available in 2 sizes, to allow for maximum design flexibility. The wafer-thin profile measures just 20mm thus creating a minimal recess when mounted into a laminated panel.

Product Features

- Available in 2 sizes 120mm & 170mm
- Aluminum & Acrylic Construction
- Wafer-Thin 12mm low-profile
- Durable Powder Coated exterior trim
- Round feature with integral edge-lit LED strip
- Steel spring clip for easy installation
- Polycarbonate Lens provides even illumination
- Strong thread-lock connectors for various cable length combinations.
- Low Voltage Power source
- Dimmable

DeltaLowProfile Specifications

Manufactured from aluminum and acrylic, and finished with a durable powder coated trim the DeltaLowProfile™ lights are designed for a long, useable lifespan.

DELTALOWPROFILE™ LIGHT SPECIFICATIONS

	DLP120	DLP170
Ceiling Cut Out	100mm	150mm
Exterior Diameter	120mm	170mm
Aperture Diameter	83mm	133mm
Height	20mm	20mm
Input Voltage	AC220-240V - Dimmable	AC220-240V - Dimmable
Light Output (Lumens)	50-70 lm/w	50-70 lm/w
Colour Accuracy (CRI)	71 CR(Ra)	71 CR(Ra)
Correlation Colour Temperature (CCT)	6500-7000K	6500-7000K
Protection Class	IP44	IP44
Warranty	3 year limited warranty	3 year limited warranty

DELTALOWPROFILE™ VOLTAGE DRIVER SPECIFICATIONS

	DLDR12 - Trimac Dimmer	
Input Voltage	200-240 VAC, 47-63Hz	
Output Voltage	DLP120	18-25 VDC, 300mA +/-10mA
	DLP170	30-45 VDC, 300mA +/-10mA
Finish	Aluminium Weatherproof Case	
Dimmable Range	Down to 10%	
Warranty	3 year limited warranty	

DELTA PATIO & ROOFING RANGE

Product Dimensions



DLP120



DLP170

Product Components

Each Light set consists of:-

- 2 x DeltaLowProfile Recess Light (either DLP120 or DLP170)
- 2 x 3 meter extension lead
- 2 x Trimac dimmable drivers, with 1 metre power connection lead
- 2 x 6 meter lead



DELTA PATIO & ROOFING RANGE

DeltaPanel Light

Product Details

The DeltaPanel™ lights are available in 3 sizes to allow for maximum design flexibility. The 10mm light panel are inserted into a 50mm frame which allows the LED driver to be conveniently housed behind the light panel.

Product Features

- Available in 3 different sizes
- Powder Coated Aluminum frame
- Pre-drilled holes for an easy installation
- Polycarbonate Lens provides even illumination
- Low Voltage Power source
- Wall mounted and remote controller
- Triac Dimmer
- No attached conduits or Hanging Wires to the panel under-skin.
- NonFlicker

DeltaPanel Light Specifications

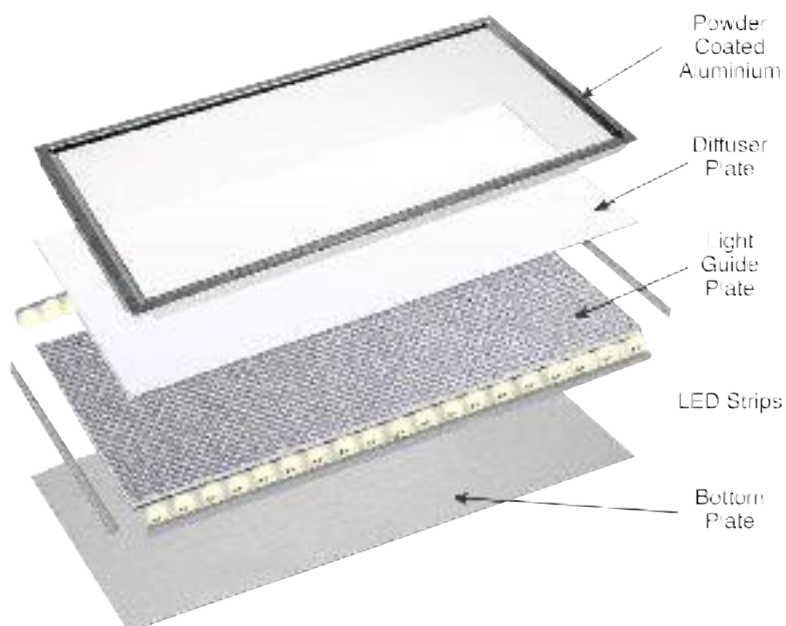
Manufactured with a sealed polycarbonate lens and mounted in a powder coated mounting frame, the Delta Panels lights are designed for easy installation given a clean functional lighting solution. Ideal for a range of Commercial, Industrial and Domestic applications.



DELTAPANEL LIGHT SPECIFICATIONS

	PL595X595TD	PL295X1195TD	PL595X1195TD
Exterior Width	595mm	295mm	595mm
Exterior Length	595mm	1195mm	1195mm
Height - Frame	50mm	50mm	50mm
Light Panel Thickness	10mm	10mm	10mm
Wattage	54W	54W	72W - Dual Driver
Input Voltage	AC220-240V Dimmable	AC220-240V Dimmable	AC220-240V Dimmable
Light Output (Lumens)	80-100 lm/w	80-100 lm/w	80-100 lm/w
Colour Accuracy (CRI)	80 CR(Ra)	80 CR(Ra)	80 CR(Ra)
Correlation Colour Temperature (CCT)	5000k	5000k	5000k
Protection Class	IP44	IP44	IP44
Warranty	3 year limited warranty	3 year limited warranty	3 year limited warranty

Panel light components



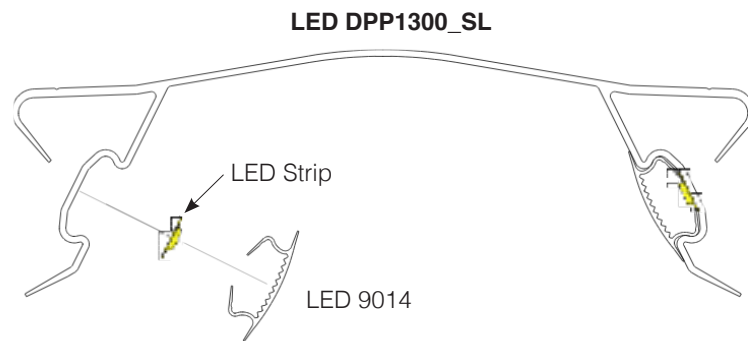
DELTA PATIO & ROOFING RANGE

▶ DeltaLum LED Light

Product Details

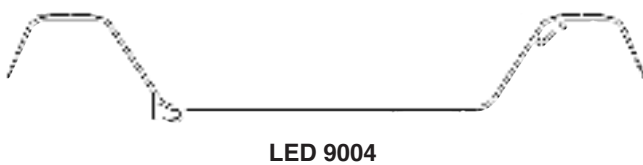
The DeltaLum™ LED Light system in conjunction with the DeltaLum Led Skylight are covered by the Australian Innovation Patent Application No. 20181010435. The uniquely innovated design allows for natural daylight to illuminate the patio area, while at night time the system operates as a fully functioning lighting system.

DeltaSingle™ Skylight



DeltaTrim™ Skylight

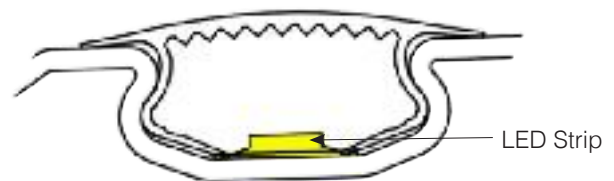
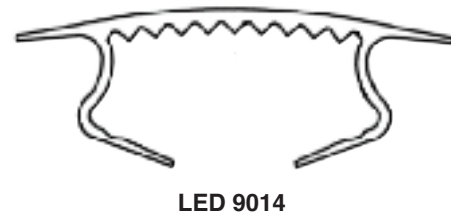
TOP



BOTTOM



Delta Lens Cap

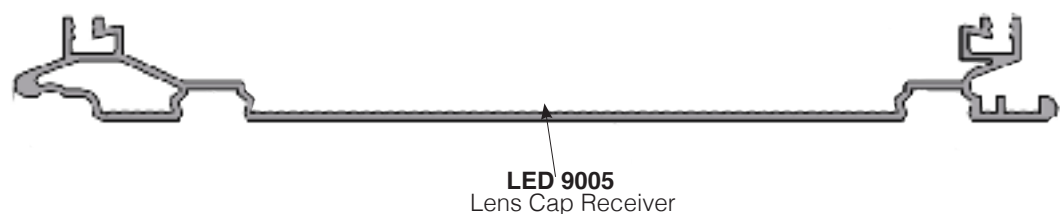


DeltaOrb™ Skylight

TOP



BOTTOM



DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

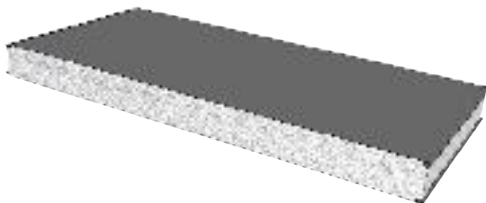


DeltaCool-Coldrooms

DeltaCool™ is the perfect solution for walling applications, utilising modern Insulated Panel technologies.

- An all-in-one walling solution for energy efficient housing or cold-rooms
- Wide 1200mm panel for faster installation and less visible joins
- Impressive insulating and sound dampening properties
- Available in 3 steel thicknesses (0.6mm, 0.5mm & 0.4mm)
- Steel face finishes available in Smooth, Ribbed, Mesa, Mico-Ribbed, 5V and Single V
- Wide range of classic and contemporary colours to match any existing structure
- Written 10 Year Warranty for true peace of mind

* Download technical data information from the Delta Panels™ website



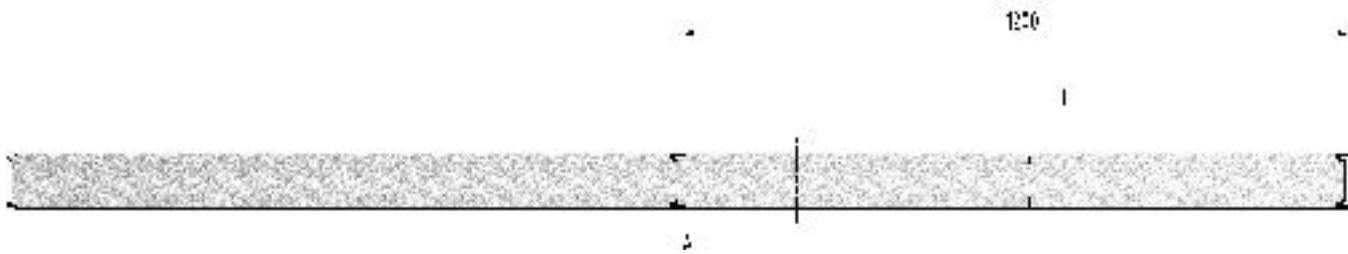
DeltaCool-EPS-FR™ is an Insulated Wall Panel System, comprising of two pre-painted, roll-formed steel skins, bonded to an insulated core of either fire retardant grade polystyrene, polyisocyanurate or mineral wool.

Both skins have a roll-formed tongue and groove edge.

Skins are coated with an anti-bacterial paint that inhibits the growth of bacteria.

Steel Skin Details ColorBond®	Top Skin	0.40mm / 0.60mm / G300 Z275		
	Bottom Skin	0.40mm / 0.60mm / G300 Z275		
Adhesive	Thermosetting two-part adhesive			
Core Material Options	Expanded Polystyrene Fire Retardant Grade		Polyisocyanurate	Mineral Wool
		EPS-FR	PIR	MW
Thermal Conductivity	22.5°C	0.037	0.232	0.042
Core Density	kg/m³	13.5	38/42	100
0.6mm Skin Weight (kg/m²)	50mm Panel	10.58	12.58	16.0
	75mm panel	10.94	13.88	18.5
	100mm Panel	11.17	15.17	21.0
	125mm Panel	11.80	16.78	23.5
	150mm Panel	12.23	18.23	26.0
R Value @ 22.5°C	50mm Panel	1.4	2.16	1.3
	75mm panel	2.1	3.23	1.9
	100mm Panel	2.7	4.31	2.5
	125mm Panel	3.4	5.39	3.2
	150mm Panel	4.1	6.47	4.1
	200mm Panel	5.4	7.54	-
	225mm Panel	6.1	8.62	-
Sheet Coverage	1200mm			
Length (mm)	Cut to length. Min. of 1600mm			
Thickness (mm)	35,50,75,100,125,150,175,200, 225, 250 * MW 50-150 only.			
Flatness Standards	0.40mm 0.60mm	Surface deformations can be apparent to the naked eye when observed in certain lighting conditions		

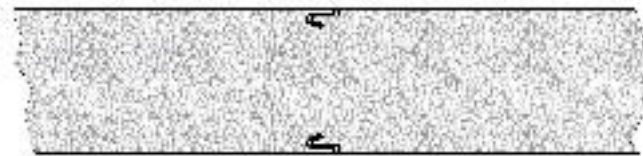
DELTA COLDROOM & ARCHITECTURAL WALLING RANGE



0.60mm DeltaCool-EPS-FR Bracing Capacity

Panel Height (m)	2.4	1.2*	4.8*
Kn/m	5.0	10.0	2.5
Bracing Units (BU)	100	200	50

* Figures for 1.2m & 4.8m high panels are extrapolated. It is acceptable to extrapolate Bracing Capacity heights between 1.2m & 4.8m. For heights outside of this dimension range, Diaphragm Analysis is required to establish Bracing Capacity.



Detail A

Shear Load Transference - Shear load is transferred by rivets into the floor / ground surface or the perpendicular walls, ceiling & roof at a rate of 1.21 kN per 4.0 mm diameter rivet.

Fixing rivets at 200mm centres complies with the 20-minute flame barrier requirements and delivers 14.5 kN of shear capacity transfer per panel (6 on each side) horizontally, and 12.1 kN per metre in vertical joints. Limited by the ability of the panel to transfer the shear.

0.6mm DeltaCool-EPS-FR Wind Pressure (kPa)

Span (mm)	Panel Thickness (mm)							
	50mm	75mm	100mm	125mm	150mm	175mm	200mm	250mm
2000	1.84	2.92	6.11	6.11	7.35	8.01	9.21	11.55
2400	1.42	2.54	5.14	5.14	6.28	6.92	7.92	9.67
3000	0.97	1.86	3.73	3.73	4.93	5.35	6.00	7.65
3600	0.70	1.39	2.68	2.68	3.84	4.28	4.77	6.05
4200	0.51	1.06	1.96	1.96	2.87	3.33	3.79	4.81
4800	0.38	0.81	1.49	1.49	2.19	2.57	2.94	3.67
5400	0.29	0.64	1.17	1.17	1.72	2.02	2.31	2.88
6000	0.22	0.50	0.94	0.94	1.38	1.62	1.86	2.32
6600	0.17	0.39	0.77	0.77	1.14	1.34	1.54	1.91
7200	0.12	0.30	0.64	0.64	0.95	1.13	1.29	1.60
7800	0.09	0.24	0.54	0.54	0.80	0.95	1.10	1.36
8400	0.07	0.19	0.43	0.43	0.69	0.82	0.94	1.17
9000	0.06	0.15	0.35	0.35	0.60	0.71	0.82	1.01
9600	0.05	0.14	0.27	0.37	0.48	0.54	0.66	0.82
10200	0.05	0.13	0.18	0.29	0.39	0.40	0.53	0.68

The above table lists ultimate wind load pressures for strength design and the pressure corresponding to a Span/150 single span deflection for 0.6mm G300 steel skins bonded to a EPS-FR core and in accordance with Serviceability Limit State criteria as per AS1170.0 - Table C1. The designer shall determine if Span/150 deflection ratio is appropriate for intended use. Loads for a more stringent deflection ratio can be determined by linearly proportioning the loads provided. Differential thermal effects are not incorporated in the loads provided.

DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

Coldroom Accessories

Insulated Doors

Delta Panels™ offers a wide range of Insulated Doors to complete your next cold-room project. As the weakest link in a cold-room, it is critical that a quality door is used to maintain thermal efficiency.

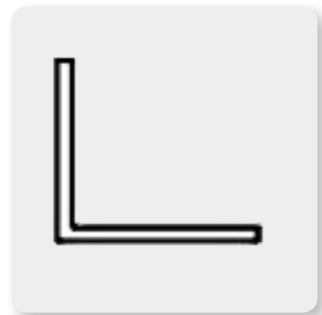
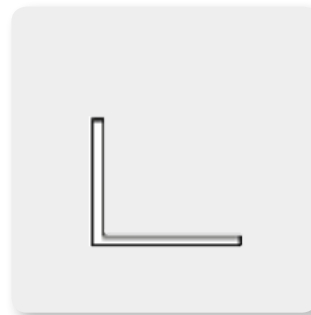
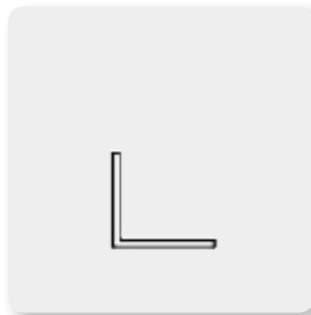
With a range of sizes and styles available, rely on Delta Panels™ for your next Insulated Door solution.

Aluminium Extrusions

Complete your next DeltaCool™ job with a full range of Aluminium Extrusions.

Options include:

- Angles in a range of sizes and finishes
- Channels in a range of styles, sizes and finishes
- Coving, including many styles such as Arrowhead
- Plus more!



Fixings

Delta Panels™ stocks all of the fixings required to complete your next DeltaCool™ job, including revets and embossed washers.

Suspension Kits

A range of suspension kits are available through Delta Panels™. Kits are offered in a range of sizes and styles. Contact us for more information

& More!

Delta Panels™ is always adding new products to our range. Contact us today to see how we can help you!

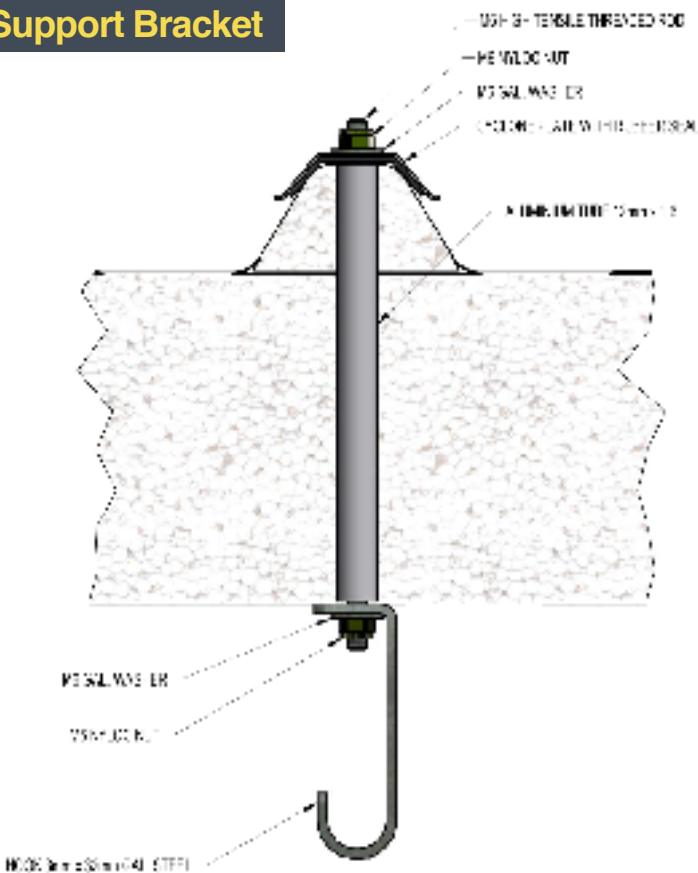
We Are Members of IPCA



Insulated Panel Council
Australia Ltd

DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

All Purpose Service Support Bracket



Delta Coldroom Kits

Delta Panels™ have off-the-shelf coldroom kits available in two (2) sizes. These kits are supplied with all necessary components.

Material Specifications		
Wall/Roof Panels	Floor	Door
Core Material	Core Material	Core Material
100mm PU/PIR core at 38/42kgs/m³	100mm PU/PIR core at 38/42kgs/m³	100mm PU/PIR core at 38/42kgs/m³
Facer Material	Facer Material	Type Sliding style
0.5mm pre-painted off white steel	3mm Aluminium checker plate	2000mm x 1200mm

Kit Sizes Available	Inclusions
Small Room	1 x 2000mm x 1200mm sliding door
3000mm (L) x 3000 (W) X 2500mm (H)	Flashings
Large Room	Pressure relief valves
6000mm (L) x 3000 (W) X 2500mm (H)	PVC curtains
	Silicone
	Rivets

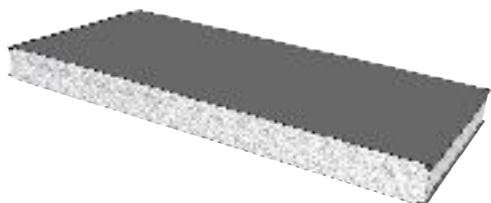
➤ **DeltaCool - Architectural & Housing**



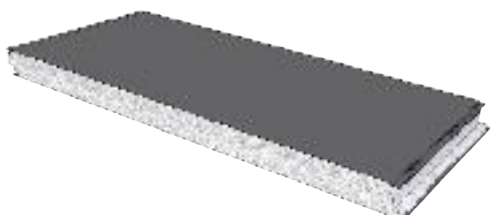
DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

Architectural Panels

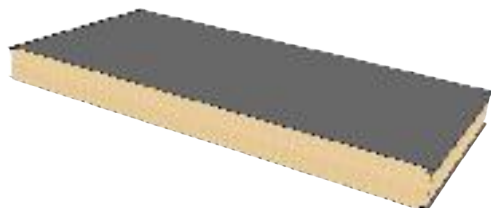
▶ **DeltaCool-EPS-FR**



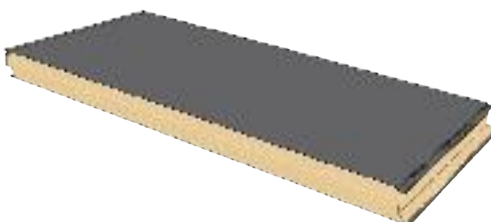
▶ **DeltaSecretFix-EPS-FR**



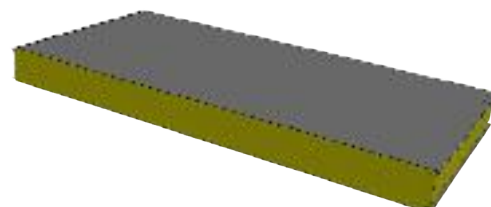
▶ **DeltaCool-PIR**



▶ **DeltaSecretFix-PIR**



▶ **DeltaCool-MW**



Facer Profiles

- Smooth
- Ribbed
- 5V
- SatinLine
- Mesa
- SingleV

Fire Ratings

Fire Test Certificate - AS ISO 9705

Group 1 in accordance with BCA2005 specification Cl.10a as per BRANZ Test Certificate No. 374

Early Fire Hazard Properties AS 1530.3 1989

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

Fire Test Certificate - AS ISO 9705

Group 1 Classification in accordance with NCC Volume One Specification BCA2005 Cl.10 clause 4 determined in accordance with AS 5637.1:2015 as per BRANZ Test Report FI 6322-TT - issued 18th May 2018

Early Fire Hazard Properties AS 1530.3 1989

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

Fire Test Certificate - AS ISO 9705

Group 1 classification in accordance with NCC Volume one Specification BCA20005 Cl.10 clause 4 determined in accordance with AS 5637.1:2015.

Early Fire Hazard Properties AS 1530.3 1989

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

DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

Insulated Core Options

Delta Panels™ range of insulated panels utilises three (3) different core materials. Each of the core options offer different physical properties and are suitable for a range of applications.

Product Details

Expanded Polystyrene-FR (EPS-FR)

EPS-FR has an added fire retardant additive that allows the core to shrink away from any flame source. EPS-FR core allows for strong, light weight panels that are very cost effective in a variety of commercial and residential building applications.



Polyisocyanurate (PIR)

PIR fire retardant core is used in a variety of Delta Panel™ products that have been accredited as FM compliant. PIR combines a high thermal capacity with strong spanning capacity.



Mineral Wool (MW)

Mineral Wool has outstanding non-combustible properties, which makes it an ideal core for applications which required fire rated panels as facades, walls & partitions. As there are no thermal bridges mineral wool possesses good thermal insulation panels. Mineral Wool also has excellent acoustic performance.



DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

Core Material Comparisons

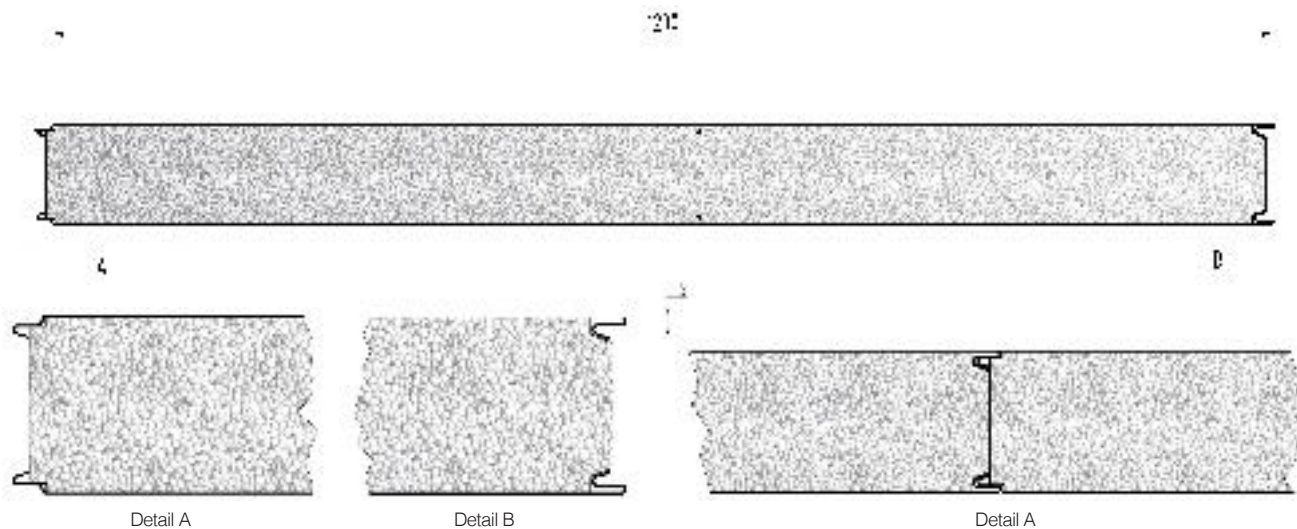
CORE MATERIAL	Expanded Polystyrene with Fire Retardant	Polyisocyanurate	Mineral Wool
	EPS-FR	PIR	MW
ACOUSTIC CHARACTERISTICS			
Frequency: 50mm Panel -STC	24	24	25
Frequency: 125mm Panel -STC	23	25	26
CORE CHARACTERISTICS			
Core Density	13.5kg/m ³	38/42kg/m ³	100kg/m ³
THERMAL CONDUCTIVITY			
W/mK @ 22.5C	0.037	0.232	0.042
ENERGY PERFORMANCE			
R Value: 50mm Panel	1.40	2.16	1.30
R Value: 75mm Panel	2.10	3.23	1.90
R Value: 100mm Panel	2.70	4.31	2.50
R Value: 150mm Panel	4.10	6.47	3.70
FIRE PERFORMANCE INFORMATION			
Early fire hazard properties (A.S. 1530.3 1989)	Ignitability - 0	Ignitability - 0	Ignitability - 0
	Spread of Flame - 0	Spread of Flame - 0	Spread of Flame - 0
	Heat Evolved - 0	Heat Evolved - 0	Heat Evolved - 0
	Smoke Developed - 2	Smoke Developed - 3	Smoke Developed - 2
AS/ISO 9705 classification	Group 1	Group 1	Group 1
Factory Mutual (FM Approved)	-	FM 4880	-
SMORGA (m2/S2 x 1000)	3.8	21.4	N/A
Non Load Bearing Wall (AS 1530.4:2014)	N/A	N/A	-/60/120
PHYSICAL INFORMATION			
Panel Weights: 0.6mm skins at 100mm core	11.6kgs/m ²	14.2kgs/m ²	20.25kgs/m ²
Recyclability	Yes	Yes	Limited
Safety handling requirements	Safety Data Sheet	Safety Data Sheet	Safety Data Sheet
Material Safety Data Sheets	Version 15/8/2018	Version 15/8/2018	Version 15/8/2018

DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

Joiner Options

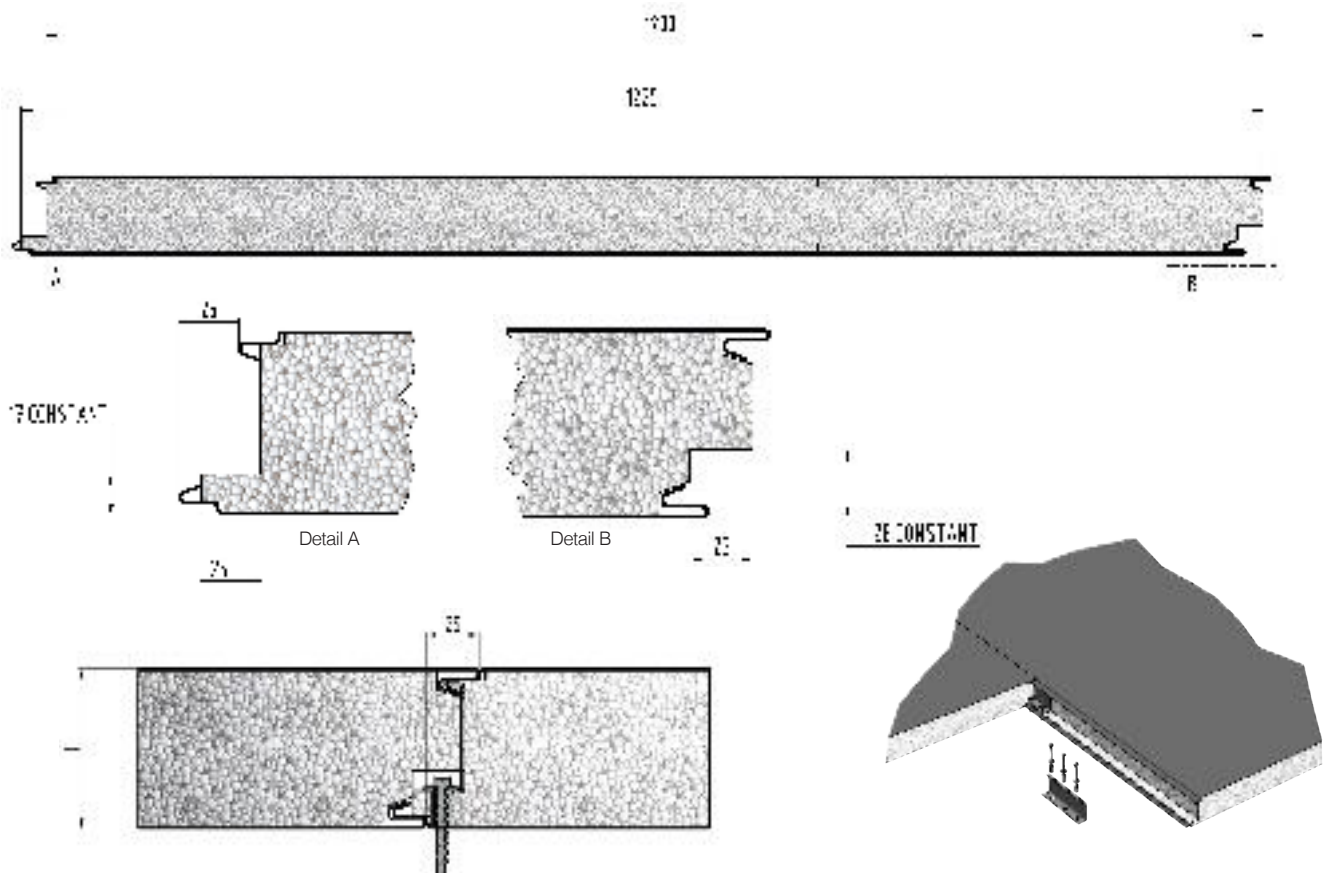
Tongue & Groove Joiner

The edges of the steel facer are roll formed to form a tongue and groove interlocking joining system. This joined seam can be sealed with a sealant to form a waterproof barrier.



SecretFix Joiner

The SecretFix Joiner edges of the steel facer are offset to form a tongue and groove interlocking joining system that can accommodate a fixing plate. This joined seam can be installed with out any visible fixings, making it a ideal for Architectural applications.

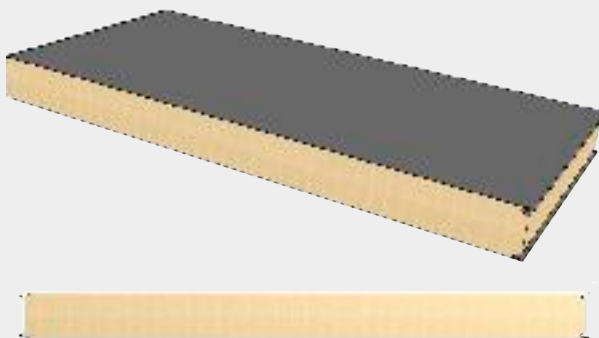


DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

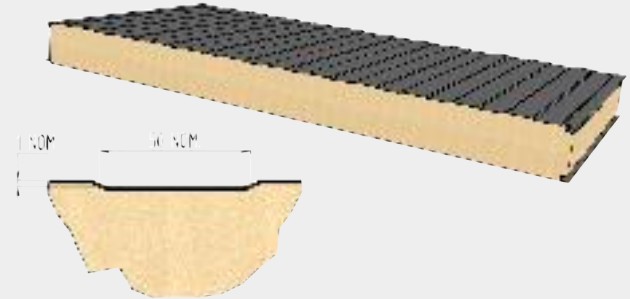
Facer Options

All the Delta Panels™ Architectural Range of Panels are available not only in an extensive range of contemporary colours but also with a various facer profiles. These facer profiles always the panels to be utilised in an wide array of applications

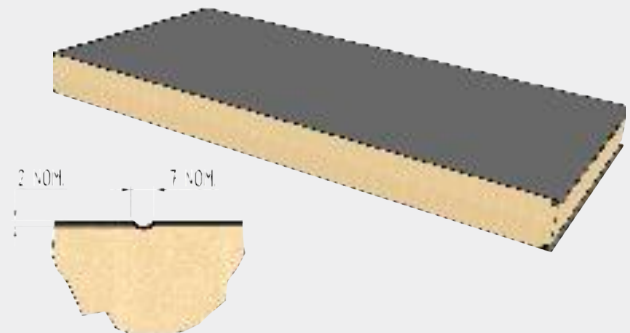
Smooth - Facer Profile



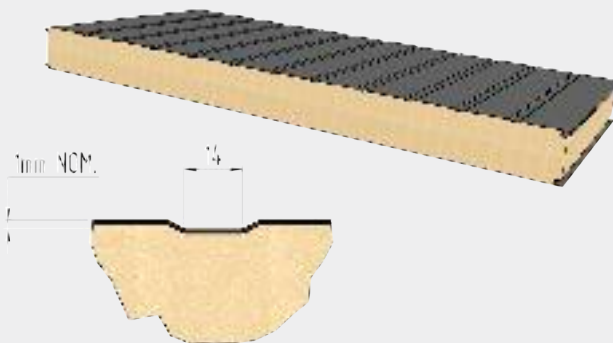
Mesa - Facer Profile



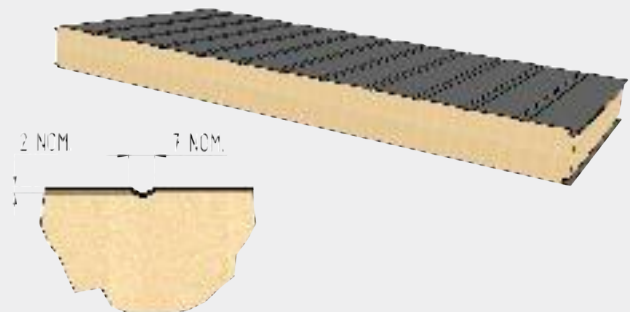
5V - Facer Profile



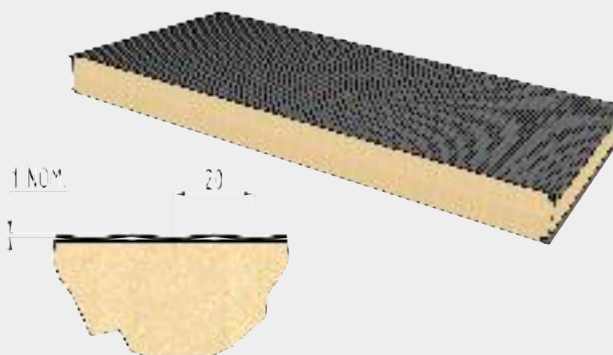
Ribbed - Facer Profile



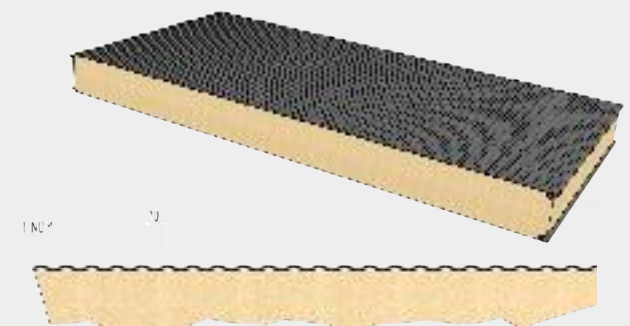
SingleV - Facer Profile



SatinLine - Facer Profile



MicroRibbed - Facer Profile



DELTA COLDROOM & ARCHITECTURAL WALLING RANGE

Testing

Delta Panels™ are engaged with a range of international testing authorities to ensure that their products meet all statutory and building codes. Our testing regime is ongoing and all updated and additional test reports are available on our web page.

Testing Authorities

• Factory Mutual - USA

DeltaCool-PIR™, DeltaTrim-PIR™ & DeltaOrb-PIR™
- FM 4880 Certification

• BRANZ -New Zealand

DeltaCool-PIR™
- AS ISO 9705:2003- Room Test

DeltaCool-MW™
- AS 1530.4:2014 - Fire Resistance of a
Non-Load Bearing Wall

DeltaCool-EPS-FR™
- AS 3959-2009 - Bal29

DeltaCool-PIR™
- AS ISO 9705:2003- Room Test

DeltaTrim-EPS-FR™ & DeltaOrb-EPS-FR™
- AS 3959-2009 - Bal40

EPS-FR , PIR & MW Core material
- ASTM C518 - Thermal Resistance

• AWTa - Australia

DeltaCool-EPS-FR™
- AS/NZ 1530.3 -1999

DeltaCool-PIR™
- AS/NZ 1530.3 -1999

DeltaCool-MW™
- AS/NZ 1530.3 -1999

• Certified Engineers

Delta Panels™ utilises the services of the following
certified Engineers to compile all of our published
engineering data

• S J George Meija

Registered Professional Engineer QLD 742.

• Milanovic Neale

Consulting Engineers



Reference Library

Delta Panels™ Pty Ltd is committed to an ongoing programme of product research and development and reserves the right to update and amend information without prior notice. Reasonable care has been taken to ensure that all published information is correct and accurately reflects the properties of our products and their design applications at the time of publication. However these are a general guide only, it is the customers responsibility to ensure that all products and their stated applications are fit for purpose and complies with all relevant statutory requirements.

To ensure that you keep abreast of all updates in our product range, all current reference material are available on our web page for downloading.

- Engineering Roof – EPS-PR
- Engineering Roof – PIR
- Engineering Walls
- Engineering Racking Tests
- Acoustic Property information
- Fire Test -EPS-FR BAL29/40 -BRANZ
- Fire Test – PIR – BRANZ
- Fire Test MW – BRANZ
- Fire Test -EPS-FR -AWTA
- Fire Test – PIR – AWTA
- Fire Test MW - AWTA
- Factory Mutual – DeltaTrim-PIR™ & DeltaOrb-PIR™
- Factory Mutual – DeltaCool-PIR™
- Safety Data Sheet – EPS-FR
- Safety Data Sheet – PIR
- Safety Data Sheet – MW
- DeltaLum - Installation Manual
- DeltaLum – Data Sheet
- DeltaLowProfile™ – Installation Manual
- DeltaLowProfile™ – Data Sheet
- DeltaPanel Light – Installation Manual
- DeltaPanel Light – Data Sheet
- DeltaMax™ Product Catalogue
- Timber Post & Beam Catalogue
- Delta Skylights Product Catalogue
- DeltaSingle™ – Installation Guideline
- Warranty – Wall, Roof & Lighting Systems
- DeltaXtremeBeam™ – Product Catalogue
- DeltaSingle™ – Product Catalogue
- Wind Speed Calculation Guide
- Installation Guide for P/V Solar Panels

DeltaMax™, DeltaTrim™, DeltaOrb™, DeltaCorro/Corro™, DeltaSingle™, DeltaXtremeBeam™ & DeltaLowProfile™ are all trademarks of Delta Panels Pty Ltd

COLOUR CHART

COLOUR	PRODUCT										
	DeltaTrim™ Top	DeltaTrim™ Bottom	DeltaOrb™ Top	DeltaOrb™ Bottom	Delta CorroCorro™ Top/Bottom	DeltaMax™ Top	DeltaMax™ Bottom	DeltaCool™ 0.40mm	DeltaCool™ 0.60mm	DeltaSingle™	DeltaBeam™
Thredbo White ®									●		
Off White / Surfmist ®	●	●	●	●	●	●	●	●	●	● *	● *
Smooth Cream Classic Cream™	●	●	●	●	●				●	● *	● *
Gull Grey / Shale Grey™	●		●		●				●		
Merino / Paperbark ®	●		●		●				●	● *	● *
Basalt ®	●		●		●						
Birch / Dune ®	●		●		●	●				● ***	
Mist Green Pale Eucalypt™	●		●		●				●		
Armour Grey Windspray ®	●		●		●						
Jasmin Brown / Jasper ®	●		●		●						
Slate Grey Woodland Grey ®	●		●		●					● **	
Iron Grey / Ironstone ®	●		●		●						
Heritage Red Manor Red ®	●		●		●						
Caufield Green Cottage Green ®	●		●		●						
Monolith / Monument ®	●		●		●					● **	
Mountain Blue Deep Ocean ®	●		●		●						
Zinc	●		●		●						● *
Wallaby/Wallaroo ®	●		●		●						
Night Sky / Ebony™									●		● *
Other	● Project Volume Only		● Project Volume Only		● Project Volume Only	● Project Volume Only	● Project Volume Only		● Project Volume Only		● Powder- Coat to Order

* DeltaSingle™ colours are 80% gloss level on the ceiling, standard gloss level on the roof. DeltaBeam™ is manufactured in 80% gloss colours.

** Underneath colour is Off White/Surfmist

*** Underneath colour is Thredbo White

® Colour names are registered trademarks of Bluescope Steel Limited. ™ Colour names are trademarks of Bluescope Steel Limited.