

Product Overview



**Architectural
Insulated
Panels**





Fully customised, insulated roofing solutions.

Custom manufactured to your architectural design requirements, innovative **ARCPANEL** insulated panel systems allow you to design without boundaries, significantly reducing structural elements & labour components, whilst providing excellent thermal properties that reduce energy demands for the life of the building.



Superior 20 Year Warranty

Up to 20 years warranty available - for peace of mind.*



Exceptional Customer Support

Our experienced customer service and support teams are ready to help process your order, coordinate your delivery, and provide support during installation.



Group 1 Fire Rated

ARCPANEL roof systems have been certified up to Group 1 fire rating in accordance with the fire hazard properties of NCC/BCA.



Superior Span & Cantilevers

ARCPANEL can achieve industry leading spans of up to 12.5 metres, cantilevers of up to 4.5 metres and can be faster to install than a conventional roof.



Fast Track Your Construction Project

Fast installation allows the reduction of costly structural items & labour components, saving time and money.



Detailed Drafting Service

Utilise our comprehensive drafting service to ensure your roof system is manufactured to the correct requirements.



Corrosive & Marine Solution

ARCPANEL can offer material options that are suitable for marine or corrosive environments with warranties up to 20 years.



High Thermal Rating

R-value ratings up to R6.6. An **ARCPANEL** roof can reduce heating and cooling requirements providing a higher comfort level, reducing your costs, leading to energy conservation.



Cyclone Rated

Custom Panel & Ecotek Panel cyclone rated up to C4. **ARCPANEL** roof panels are tested in accordance with NCC/BCA requirements.



Sustainable Construction

Prefabricated systems made to order can reduce construction time, waste and embodied energy.

*Terms & conditions apply

**60m minimum radius for Ecotek Panel

COLORBOND® is a registered trademark of BlueScope Steel



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Custom Panel

Designed for roof pitch 5°+ roofing applications. The Custom Panel can be made in straight, curved, multi-curved & bullnose configurations. Thermal performance up to R6.5.



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Aquatek Panel

For aquatic and corrosive environment applications both residential and commercial. Available in a range of profiles & configurations. Thermal performance up to R6.6.



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Ecotek Panel

Designed for both commercial and residential applications where low pitch 2°+ roofing applications are required. Ecotek Panel can be made straight & curved**. Thermal performance up to R6.1.



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Smartek Panel

Contemporary in appearance, the Smartek Panel is formed using the Smartsan® profile on both roof and ceiling side of the panel. Suitable for roof pitch 3°+ applications. Thermal performance up to R4.8.



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Firetek TPC Panel

BAL 29 tested & certified, the Firetek TPC Panel is suited to both residential and commercial applications. Available in a range of profiles & configurations. Thermal performance up to R6.6.



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Custom Panel

The **ARCPANEL** Custom Panel combines aesthetic, innovative design, with high strength, durability and excellent thermal insulation. **ARCPANEL** panels can also be curved to produce an outstanding architectural feature and provide increased interior space.

The **ARCPANEL** Custom Panel can achieve significant cantilevers, in some applications up to half the actual back span and this unique system eliminates the need for complex, expensive roof structures. The lightweight **ARCPANEL** panels are easily handled on site, achieving faster, lower cost installation.

- ▣ Suitable for roof pitch 5°+ applications.
- ▣ Corrugated profile roof & ceiling sheet.
- ▣ Available in a range of classic and contemporary **COLORBOND®** steel colours.
- ▣ Can be customised to your requirements.
- ▣ Panel lengths 1.2m - 20m available. Panels can be joined to achieve longer runs, contact us for details.

Panel Applications



Straight Roof

Straight panels can be manufactured up to 20 metres in length. Longer lengths can be achieved, contact us for details.



Curved Roof

Curved panels are custom manufactured to suit your design requirements (minimum radii 2.5 metres).



Multi-Curved Roof

Multi-curved panels are custom manufactured to suit your design requirements (minimum radii 3 metres).



Bull-Nose Roof

Bull-nose panels can be manufactured to suit a bull-nose radii of 750mm to 1200mm. Bull-nose panels can be manufactured in lengths up to 12 metres.



Panel Dimensions

Standard panel thicknesses are available (other panel thicknesses are available upon request):

75 85 100 125 140 160 175 200 250

Overall thickness in mm



Ecotek

The **ARCANEL Ecotek Panel** combines aesthetic, innovative design, with high strength, durability and excellent thermal insulation. **ARCANEL** panels can also be curved to produce an outstanding architectural feature and provide increased interior space. The **ARCANEL Ecotek Panel** can achieve significant cantilevers, in some applications up to 40% of the actual back span and this unique system eliminates the need for complex, expensive roof structures. The lightweight **ARCANEL** panels are easily handled on site, achieving faster, lower cost installation.

- ▣ Suitable for roof pitch 2°+ applications.
- ▣ Trapezoidal profile roof sheet & corrugated ceiling sheet.
- ▣ Available in a range of classic and contemporary **COLORBOND®** steel colours.
- ▣ Can be customised to your requirements.
- ▣ Panel lengths 1.2m – 20m available. Panels can be joined to achieve longer runs, contact us for details.

Panel Applications



Straight Roof

Straight panels can be manufactured up to 20 metres in length. Longer lengths can be achieved, contact us for details.



Curved Roof

Curved panels can be manufactured to radii greater than 60 metres.



Panel Dimensions

Standard panel thicknesses are available (other panel thicknesses are available upon request):

90	110	130	150	175	200	210	250
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Overall thickness in mm

Firetek TPC

The **ARCPANEL Firetek TPC** roof system was introduced in response to the mandatory bushfire attack level ratings; a prefabricated insulated panel that consists of two single **COLORBOND®** steel sheets which are bonded to a fire-retardant TPC core. **ARCPANEL Firetek TPC** roof systems have an excellent thermal insulation and are especially suitable for use in

- ▣ **BAL 29 - tested for bushfire and fire resistance (AS 3959).**
- ▣ **Available panel thicknesses: 85mm, 105mm, 125mm & 150mm**
- ▣ **R-value up to 6.6 allows you to maximise energy efficiency, reduce energy costs and your carbon footprint.**
- ▣ **Suitable for roof pitches from 2°.**
- ▣ **Available in straight, curved and/or multi-curved panels.**
- ▣ **Panel lengths 1.2m – 20m available. Panels can be joined to achieve longer runs, contact us for details.**

Panel Applications



Straight Roof

Straight panels can be manufactured up to 20 metres and are suitable for pitches from 2°.



Curved Roof

Curved panels can be manufactured to suit your design requirements. Please contact us for further information.



Multi-Curved Roof

Multi-curved panels can be manufactured to suit your design requirements. Please contact us for further information.



BAL 29 Compliant

Firetek TPC is a BAL 29 compliant roof panel suitable for bushfire prone areas. Please contact us for further information.



Panel Dimensions

Standard panel thicknesses are available (other panel thicknesses are available upon request):

Corro/Corro	85	105	125	150
Trapezoidal/Corro		105	125	150

Overall thickness in mm

Aquatek

The **ARCPANEL** Aquatek roof panel combines aesthetic, innovative design, with high strength, durability and excellent thermal insulation.

ARCPANEL panels can also be curved to produce an outstanding architectural feature and provide increased interior space. The **ARCPANEL** Aquatek roof panel can achieve significant cantilevers, in some applications up to 40% of the actual back span and this unique system eliminates the need for complex, expensive roof structures. The lightweight **ARCPANEL** panels are easily handled on site, achieving faster, lower cost installation.

- ▣ Aluminium ceiling sheet suitable for aquatic, marine, industrial or harsh environments.
- ▣ Panel thickness range from 75mm to 250mm.
- ▣ Superior span & cantilever capabilities.
- ▣ High durability & low maintenance.
- ▣ Available in a variety of pre-finished & modern appealing colours.
- ▣ Warranty period of up to 20 years, for peace of mind.

Panel Applications



Straight Roof

Straight panels can be made up to 11.3m. Panels can be joined to achieve longer runs, contact us for details.



Curved Roof

Curved panels can be manufactured to suit your design requirements. Please contact us for further information.



Multi-Curved Roof

Multi-curved panels can be manufactured to suit your design requirements. Please contact us for further information.

Panel Dimensions

Standard panel thicknesses are available (other panel thicknesses are available upon request):

Corro/Corro	75	85	100	125	140	160	175	200	250
Trapezoidal/Corro	90	110	130	150	175	200	210	250	

Overall thickness in mm

Smartek

The **ARCPANEL** Smartek roof panel is a pre-fabricated structural insulated panel in a contemporary looking trapezoidal profile comprising of **COLORBOND®** steel sheeting, which is bonded to both sides of a profiled fire retardant EPS core. The panel's top and bottom sheets are pre-finished in an extensive range of **COLORBOND®** steel colours.

- ▣ Achieves up to 10.2m unsupported span which can reduce expensive support structures eg. roof trusses and support beams
- ▣ The contemporary trapezoidal profile is used on both sides of the panel
- ▣ Fire rated to NCC/BCA Group 1, roof and wall lining material
- ▣ Meets BCA bush fire ratings up to BAL 29
- ▣ Minimum roof pitch as low as 3°
- ▣ Cantilevers of up to 4m
- ▣ Smartek is available in **COLORBOND®** steel, **COLORBOND®** Ultra steel and **ZINCALUME®** steel on both sides of the panel
- ▣ Fast and simple to install, built-in service core
- ▣ High comfort, all in one insulated roof system
- ▣ Peace of mind – up to 20 years warranty (conditions apply)

Panel Applications



Straight Roof

Straight panels can be manufactured up to 20 metres in length. Panels can be joined to achieve longer runs, contact us for details.



Curved Roof

Curved panels can be manufactured to radii greater than 60 metres.



Panel Dimensions

Standard panel thicknesses are available (other panel thicknesses are available upon request):

100 125 140 175 200

Overall thickness in mm

Product Summary

	Custom Panel	Ecotek	Firetek TPC	Aquatek	Smartek
Top Sheet Profile	Corro/Corro	Trapezoidal/Corro	Trapezoidal/Corro Corro/Corro	Trapezoidal/Corro Corro/Corro	Smartspan®/ Smartspan®
Min Roof Pitch	5 deg	2 deg	2 deg / 5 deg	2 deg / 5 deg	3 deg
Max Span	12.5m	12.3m	9.0m	8.8m	10.2m
Max Cantilever	4.5m	3.9m	3.0m	2.3m	4.0m
Max Length	20m	20m	20m	11.3m	20m
Min Length	1.2m	1.2m	1.2m	1.2m	1.2m
Min Curved Radius	3m	60m	16m	16m	60m
Thickness	75 to 250mm	90 to 250mm	85 to 150mm	75 to 250mm	100 to 200mm
R-Value	R1.7 to R6.5	R1.7 to R6.1	R3.4 to R6.6	R1.7 to R6.5	R2.4 to R4.8
Cyclonic Rating	C4	C4	-	-	-
BAL Rating	BAL 29	BAL 29	BAL 29	BAL 29	BAL 29
Group Fire Rating	Group 1	Group 1	Group 2	Group 2	Group 1
Xtreme Option	Yes	Yes	Yes	Yes	No

Colour Range - Classic



Classic Cream™ SA = 0.32 BCA = L	Paperbark® SA = 0.42 BCA = M	Pale Eucalypt® SA = 0.60 BCA = M	Woodland Grey® SA = 0.71 BCA = D	Deep Ocean® SA = 0.75 BCA = D	Cottage Green® SA = 0.75 BCA = D	Manor Red® SA = 0.69 BCA = D	Night Sky® SA = 0.96 BCA = D

Colour Range - Contemporary

Surfmist® SA = 0.32 BCA = L	Evening Haze® SA = 0.43 BCA = M	Shale Grey™ SA = 0.45 BCA = M	Dune® SA = 0.47 BCA = M	Cove® SA = 0.54 BCA = M	Windspray® SA = 0.58 BCA = M	Gully® SA = 0.63 BCA = D	Mangrove® SA = 0.64 BCA = D
Wallaby® SA = 0.64 BCA = D	Jasper® SA = 0.68 BCA = D	Basalt® SA = 0.69 BCA = D	Ironstone® SA = 0.74 BCA = D	Terrain® SA = 0.69 BCA = D	Monument® SA = 0.73 BCA = D		

Colour Range - Matt Finish

Basalt®	Dune®	Monument®	Shale Grey™	Surfmist®

COLORBOND® Ultra Steel

Dune®	Monument®	Surfmist®	Wallaby®	Windspray®	Woodland Grey®

SUPERDURA™ Stainless Steel

Surfmist®

Colour Range ARCPANEL Xtreme

STANDARD	SPECIAL ORDER	
Off White	Light Grey	Dark Grey

Aquatek Aluminium (Ceiling Side)

STANDARD	SPECIAL ORDER	
Off White	Light Grey	Dark Grey

IMPORTANT NOTES: USE OF DARK COLOURS FOR EXTERNAL FINISHES, LIMITED WARRANTY APPLIES, PLEASE CONTACT ARCPANEL FOR FURTHER INFORMATION.

* Galv, ZINCALUME®, COLORBOND® Matt and COLORBOND® dark colours may show minor visible roll forming process marks, this is a characteristic of roll forming process and not a defect.
 ** Colours with a NCC / BCA 'Dark' classification having a solar absorbance of greater than 0.68 are not recommended to be used as a top roof or outer wall sheeting. Increased surface temperature, expansion, deflection and thermal movement can be expected of an insulated panel when using dark colours exposed to direct sunlight. The building designer is responsible for colour selection, acknowledges and accepts any associated design risks. Arcpanel warranty does not cover structural damage to the building or to the panels caused by extreme or concentrated dry heat loads and surface temperatures in excess of 78 degrees Celsius.



Fully customised insulated roofing solutions
using COLORBOND® steel

Benefit from an **ARCPANEL** Roof System

- ▣ Pre-finished high durability & low maintenance.
- ▣ Reduction of costly structural items & labour components, saving time & money.
- ▣ Superior low pitch - suitable for roof pitch 2°+ applications.
- ▣ Achieve up to 12.5 metres unsupported spans - reduce expensive support structures e.g. roof trusses & support beams.
- ▣ Large cantilevers of up to 50% of the actual back span can be achieved (dependant on the design).
- ▣ Pre-finished top and bottom sheet - extensive range of COLORBOND® steel colours available.
- ▣ Compatible with most architectural designs as multiple configurations are available across the range.
- ▣ Cyclone tested up to C4 in accordance with NCC/BCA.
- ▣ ARCPANEL roof panels are available in COLORBOND® steel, COLORBOND® steel Matt, COLORBOND® Ultra steel, COLORBOND® Metallic steel, SUPERDURA™ Stainless steel & ZINCALUME® steel.
- ▣ Rapid installation makes the ARCPANEL roof panel a clear winner over traditional roof construction.
- ▣ Fire rated up to Group 1 - roof and wall lining.
- ▣ Superior thermal – ratings up to R6.6 reduce heating & cooling demand & cost for the life of the building.

Some of our projects...



Kiama Residence



Waverley Pavilion



Toolern Station



Malua Bay Weekender



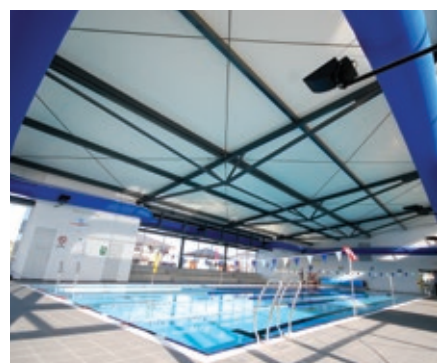
St Ives Residence



St Pauls High School



Melbourne Library



Club Googong



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