

Versiclad **INSULATED** PANEL SOLUTIONS

February 2012

Versiclad manufacture and distribute a large range of insulated panel products into the domestic, commercial, and industrial markets. We also manufacture custom designed panels using a variety of different products to suit individual requirements.

An Australian owned and operated business established in 1986, Versiclad has been a market leader in insulated panel technology since 1986, and takes pride in manufacturing some of the most energy efficient and cost effective panels in construction today.

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With a reputation for quality and innovation, our focus is on manufacturing and supplying the best insulated roof, wall and ceiling panels in the market. We pride ourselves on our excellent customer service and industry leading delivery cycles / times.

CUSTOM PANEL INNOVATION

Residential and commercial usage of Versiclad insulated panels range from a simple insulated ceiling through to the cladding of the Rod Laver Arena or the Stadium Mackay roof. Whether you're a professional builder, an architect, or want to do it yourself, our products are easy to install, versatile and fully guaranteed. Contact us directly for advice and assistance.

ROOF PANELS

The following information pack contains Versiclad roof panel specifications from **pages 3 - 13**.

WALL PANELS

The following information pack contains Versiclad wall panel specifications from **pages 15 - 17**.

CEILING PANELS

Summary details of our insulated ceiling panels are included in the attached brochure only.

ROOFING

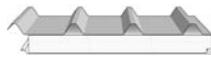


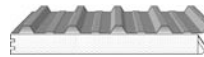

Versiclad is the leading brand of high performance insulated roofing panels used in various architectural, design and industrial applications.

Versiclad insulated roofing products provide a variety of profiled, weather tight covers, outstanding insulation, and a pre-finished maintenance free ceiling. **Versiclad** roof panels will not only keep you cool in summer and warm in winter, but deliver a comfortable atmosphere wherever it is you crave a relaxed environment.

Self-mating easily installed roof panels are available in a range of optional profiles with various thickness cores to suit your desired insulation rating or trafficable free span requirement. Our insulated roof panels provide a clean crisp uninterrupted ceiling finish, reducing the number of unsightly support beams normally associated with traditional roofing methods.

Versiclad insulated roof panels are easily incorporated into all forms of construction, which will meet the building regulations insulation requirements. With its unrivalled sustainability and durability credentials, Versiclad makes it easy to specify roofing for your next project.

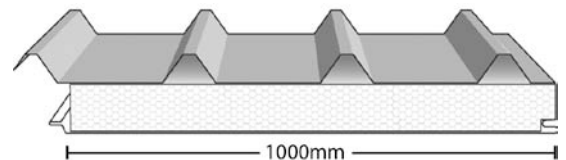
ROOF PANEL SUMMARY TABLE

Roof Profiles	Spacemaker	Corrolink	Double Corrolink	Versalink	Multidek
					
Minimum Pitch	1°	5°	5°	2°	2°
Maximum Free Span	7.24m	9.00m	9.00m	8.01m	9.00m
Maximum Length	15.00m	9.00m	9.00m	9.00m	9.00m
Panel width	1000mm	765mm	765mm	765mm	700mm
Exterior Colours	2	15	15	15	15
Ceiling Colours	1	1	15	1	15
Ceiling Finishes	2	3	1	3	1
Insulation R-value	Up to 2.37	Up to 5.13	Up to 3.56	Up to 3.18	Up to 3.56



SPACEMAKER STRUCTURAL INSULATED ROOF PANEL

FEATURES

- Minimum roof pitch only 1° - lowest roof pitch available
- Long trafficable unsupported span of up to 7.24 m means less unsightly support beams
- Lightweight and easy to install
- Custom 37mm high trapezoidal profile
- Fire retardant EPS insulated core dramatically reduces radiant heat transfer, mould, condensation, and rain noise.



SPACEMAKER SPECIFICATIONS				
WIDTH	CORE	LENGTH	MIN. ROOF PITCH / FALL	CORE K VALUE / THERMAL CONDUCTIVITY
1000 mm cover	M Grade Polystyrene 19.0 kg/m ³	Minimum 1.8 m Maximum 15.0 m Cut to order	1°	0.038 W/mK

SPACEMAKER SKIN DETAILS				
STEEL FACE	THICKNESS	SUBSTRATE	GLOSS LEVEL	PROFILE & COLOUR
Upper skin	0.40 mm	Zincalume coated G300 steel	25%	37mm Trapezoidal profile in Slate Grey OR Birch Grey 
Lower skin	0.40 mm	Zincalume coated G300 steel	10%	Smooth OR Stucco  in Thredbo White only

SPACEMAKER TECHNICAL DATA			
Core Thickness	Overall Thickness	Weight kg/m ²	Mean 'R' value
50 mm	87 mm	7.55	1.32
75 mm	112 mm	7.95	1.98
90 mm	127 mm	8.20	2.37



CANTILEVER / OVERHANG

The maximum cantilever ability of the panels is **25% of the allowable span**.

For Spacemaker 90mm panels that's **up to 1.81m**.

The small print: You only need to make sure that you have double the desired cantilever as a backspan. Eg, for a 1m cantilever your panel needs to be 3m – a 2m backspan + 1m cantilever.

SPACEMAKER SPAN TABLES*				
WIND CLASS	PANEL SIZE	MAX SINGLE SPAN (mm)		
		Fully enclosed	One side open	Two/Three sides open
N1 (W28N)	50 mm	5520	5120	5750
	75 mm	6480	6020	6750
	90 mm	6880	6510	7240
N2 (W33N)	50 mm	4600	4300	4900
	75 mm	5400	5070	5750
	90 mm	5720	5480	6040
N3 (W41N)	50 mm	3670	3390	3900
	75 mm	4320	3990	4600
	90 mm	4520	4310	4740
N4 (W50N)	50 mm	2900	2760	3040
	75 mm	3400	3250	3570
	90 mm	3670	3510	3860
C1 (W41C)	50 mm	3550	2830	3730
	75 mm	4180	3330	4380
	90 mm	4520	3600	4740
C2 (W50C)	50 mm	2900	2300	3030
	75 mm	3400	2710	3570
	90 mm	3670	2930	3860
C3 (W60C)	50 mm	2360	1900	2480
	75 mm	2780	2230	2930
	90 mm	3000	2410	3160

* In accordance with: Wind actions: AS/NZS 1170.2:2002 – Clauses 5.3, 5.4
Imposed load on roof: AS/NZS 1170.1:2002 – Clause 3.5

Fixing detail

- Fixed to support member with 14g self-drilling screws at every crest
- Typically 3 screws to each panel, at each support.

Cyclonic fixing

- Fixed to supporting member with 14g self-drilling screws and cyclone assemblies or washers at every crest
- Typically 3 screws and cyclone assemblies or washers to each panel at each support
- Uplift load capacity of fixing to supporting members shall be based on engineering advice
- Max cantilever is 25% of the allowable span.

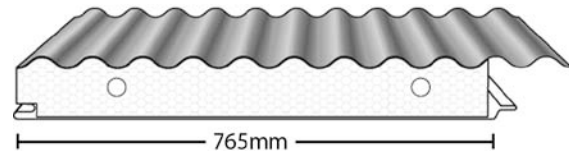
Notes

- All windows included in the building shall be rated N1, N2, N3, N4, C1, C2, C3, in accordance with AS 2047
- All glass included in the building shall be rated, N1, N2, N3, N4, C1, C2, C3, in accordance with AS 1288
- For buildings in cyclonic wind regions, the building envelope (windows, doors and cladding) shall be capable of resisting impact loading equivalent to a 4kg piece of timber of 100 mm x 50 mm cross-section, projected at 15 m/s at any angle in accordance with Clause 5.3.2, AS/NZS 1170.2:2002.

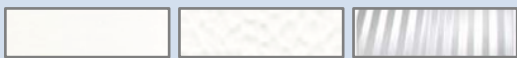
CORROLINK STRUCTURAL INSULATED ROOF PANEL

FEATURES

- Minimum roof pitch only 5°
- Our longest trafficable unsupported span of up to 9.0 m means less unsightly support beams
- Lightweight and easy to install
- Wiring services run through core ducts
- Fire retardant EPS insulated core dramatically reduces radiant heat transfer, mould, condensation, and rain noise.



CORROLINK SPECIFICATIONS				
WIDTH	CORE	LENGTH	MIN. ROOF PITCH / FALL	CORE K VALUE / THERMAL CONDUCTIVITY
765 mm cover	S Grade Polystyrene 16.0 kg/m ³	Minimum 1.2 m Maximum 9.0 m Cut to order	5°	0.0394 W/mK

CORROLINK SKIN DETAILS				
STEEL FACE	THICKNESS	SUBSTRATE	GLOSS LEVEL	PROFILE & COLOUR
Upper skin	0.42 mm	Zincalume AZ150 G550 steel	25%	Corrugated profile in: Bushland – Classic Cream – Dune – Headland – Evening Haze – Wilderness – Pale Eucalypt – Paperbark – Jasper – Shale Grey – Surf Mist – Woodland Grey – Sandbank – Zincalume
Lower skin	0.40 mm	Zincalume coated G300 steel	10%	Smooth OR Stucco OR Micraline  in Thredbo White only

CORROLINK TECHNICAL DATA			
Core Thickness	Overall Thickness	Weight kg/m ²	Mean 'R' value
65 mm	65 mm	7.60	1.66
85 mm	85 mm	8.00	2.16
115 mm	115 mm	8.40	2.93
150 mm	150 mm	8.90	3.81
200 mm	200 mm	9.60	5.13



CORROLINK SPAN TABLES*				
WIND CLASS	PANEL SIZE	MAX SINGLE SPAN (mm)		
		Fully enclosed	One side open	Two/Three sides open
N1 (W28N)	65 mm	4770	4515	5035
	85 mm	5540	5240	5840
	115 mm	6530	6175	6875
	150 mm	7550	7150	7950
	200 mm	9000	9000	9000
N2 (W33N)	65 mm	3975	3805	4195
	85 mm	4610	4415	4860
	115 mm	5425	5195	5725
	150 mm	6250	6000	6600
	200 mm	8685	8305	9000
N3 (W41N)	65 mm	3135	2990	3285
	85 mm	3645	3470	3815
	115 mm	4285	4080	4495
	150 mm	4900	4700	5150
	200 mm	6820	6495	7165
N4 (W50N)	65 mm	2550	2435	2675
	85 mm	2955	2825	3105
	115 mm	3480	3335	3655
	150 mm	4000	3800	4200
	200 mm	5525	5280	5810
C1 (W41C)	65 mm	3000	2385	3145
	85 mm	3485	2770	3650
	115 mm	4100	3265	4300
	150 mm	4740	3750	4980
	200 mm	6815	5410	7165
C2 (W50C)	65 mm	2440	1945	2560
	85 mm	2825	2255	2970
	115 mm	3330	2660	3495
	150 mm	3850	3050	4050
	200 mm	5525	4400	5810
C3 (W60C)	65 mm	2000	1600	2100
	85 mm	2320	1850	2430
	115 mm	2725	2180	2870
	150 mm	3150	2500	3300
	200 mm	4510	3620	4745

* In accordance with: Wind actions: AS/NZS 1170.2:2002 – Clauses 5.3, 5.4
Imposed load on roof: AS/NZS 1170.1:2002 – Clause 3.5

CANTILEVER / OVERHANG

The maximum cantilever ability of the panels is **25% of the allowable span**.

For Corrolink 200mm panels that's **up to 2.25m**.

The small print: You only need to make sure that you have double the desired cantilever as a backspan. Eg, for a 1m cantilever your panel needs to be 3m – a 2m backspan + 1m cantilever.

Fixing detail

- Fixed to support member with 14g self-drilling screws at every alternate crest
- Typically 5 screws to each panel, at each support.

Cyclonic fixing

- Fixed to supporting member with 14g self-drilling screws and cyclone assemblies or washers at every alternate crest
- Typically 5 screws and cyclone assemblies or washers to each panel at each support
- Uplift load capacity of fixing to supporting members shall be based on engineering advice
- Max cantilever is 25% of the allowable span.

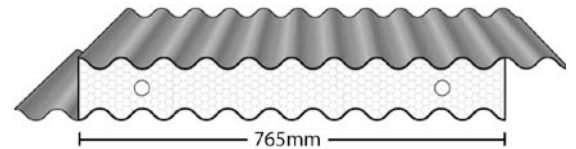
Notes

- All windows included in the building shall be rated N1, N2, N3, N4, C1, C2, C3, in accordance with AS 2047
- All glass included in the building shall be rated, N1, N2, N3, N4, C1, C2, C3, in accordance with AS 1288
- For buildings in cyclonic wind regions, the building envelope (windows, doors and cladding) shall be capable of resisting impact loading equivalent to a 4kg piece of timber of 100 mm x 50 mm cross-section, projected at 15 m/s at any angle in accordance with Clause 5.3.2, AS/NZS 1170.2:2002.

DOUBLECORROLINK STRUCTURAL INSULATED ROOF PANEL

FEATURES

- Minimum roof pitch only 5°
- Our longest trafficable unsupported span of up to 9.0 m means less unsightly support beams
- Lightweight and easy to install
- Wiring services run through core ducts
- Fire retardant EPS insulated core dramatically reduces radiant heat transfer, mould, condensation, and rain noise.



DOUBLE CORROLINK SPECIFICATIONS				
WIDTH	CORE	LENGTH	MIN. ROOF PITCH / FALL	CORE K VALUE / THERMAL CONDUCTIVITY
765 mm cover	S Grade Polystyrene 16.0 kg/m ³	Minimum 1.2 m Maximum 9.0 m Cut to order	5°	0.0394 W/mK

DOUBLE CORROLINK SKIN DETAILS				
STEEL FACE	THICKNESS	SUBSTRATE	GLOSS LEVEL	PROFILE & COLOUR
Upper skin	0.42 mm	Zincalume AZ150 G550 steel*	25%	Corrugated profile in: Bushland – Classic Cream – Dune – Headland – Evening Haze – Wilderness – Pale Eucalypt – Paperbark – Jasper – Shale Grey – Surf Mist – Woodland Grey – Sandbank – Zincalume
Lower skin	0.42 mm	Zincalume AZ150 G550 steel*	25%	Corrugated profile in same colour options as above.

* Stainless Steel available for custom projects - Surf Mist only.

DOUBLE CORROLINK TECHNICAL DATA			
Core Thickness	Overall Thickness	Weight kg/m ²	Mean 'R' value
75 mm	75 mm	8.60	1.91
100 mm	100 mm	9.00	2.54
125 mm	125 mm	9.40	3.18
140 mm	140 mm	9.80	3.56



DOUBLE CORROLINK SPAN TABLES*				
WIND CLASS	PANEL SIZE	MAX SINGLE SPAN (mm)		
		Fully enclosed	One side open	Two/Three sides open
N1 (W28N)	75 mm	5758	5758	5758
	100 mm	7837	7535	8170
	125 mm	9000	8959	9000
	140 mm	9000	9000	9000
N2 (W33N)	75 mm	5758	5758	5758
	100 mm	7837	7535	8170
	125 mm	9000	8959	9000
	140 mm	9000	9000	9000
N3 (W41N)	75 mm	5277	5088	5459
	100 mm	6664	6425	6892
	125 mm	7870	7510	8195
	140 mm	8460	8070	8890
N4 (W50N)	75 mm	4533	4290	4691
	100 mm	5520	5270	5800
	125 mm	6400	6120	6720
	140 mm	6880	6570	7230
C1 (W41C)	75 mm	5277	4390	5490
	100 mm	6664	5400	6892
	125 mm	7870	6260	8195
	140 mm	8460	6740	8890
C2 (W50C)	75 mm	4490	3580	4691
	100 mm	5520	4400	5800
	125 mm	6400	5100	6720
	140 mm	6880	5490	7230
C3 (W60C)	75 mm	3670	2950	3860
	100 mm	4510	3620	4740
	125 mm	5230	4200	5500
	140 mm	5620	4510	5910

* In accordance with: Wind actions: AS/NZS 1170.2:2002 – Clauses 5.3, 5.4
 Imposed load on roof: AS/NZS 1170.1:2002 – Clause 3.5

CANTILEVER / OVERHANG

The maximum cantilever ability of the panels is **25% of the allowable span**.

For Double Corrolink 125mm and 140mm panels that's **up to 2.25m**.

The small print: You only need to make sure that you have double the desired cantilever as a backspan. Eg, for a 1m cantilever your panel needs to be 3m – a 2m backspan + 1m cantilever.

Fixing detail

- Fixed to support member with 14g self-drilling screws at every alternate crest
- Typically 5 screws to each panel, at each support.

Cyclonic fixing

- Fixed to supporting member with 14g self-drilling screws and cyclone assemblies or washers at every alternate crest
- Typically 5 screws and cyclone assemblies or washers to each panel at each support
- Uplift load capacity of fixing to supporting members shall be based on engineering advice
- Max cantilever is 25% of the allowable span.

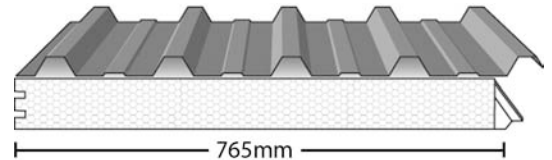
Notes

- All windows included in the building shall be rated N1, N2, N3, N4, C1, C2, C3, in accordance with AS 2047
- All glass included in the building shall be rated, N1, N2, N3, N4, C1, C2, C3, in accordance with AS 1288
- For buildings in cyclonic wind regions, the building envelope (windows, doors and cladding) shall be capable of resisting impact loading equivalent to a 4kg piece of timber of 100 mm x 50 mm cross-section, projected at 15 m/s at any angle in accordance with Clause 5.3.2, AS/NZS 1170.2:2002.

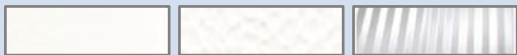
VERSALINK STRUCTURAL INSULATED ROOF PANEL

FEATURES

- Minimum roof pitch only 2°
- Long trafficable unsupported span of up to 8.01 m means less unsightly support beams
- Lightweight and easy to install
- Wiring services run through panel joints
- Fire retardant EPS insulated core dramatically reduces radiant heat transfer, mould, condensation, and rain noise.



VERSALINK SPECIFICATIONS				
WIDTH	CORE	LENGTH	MIN. ROOF PITCH / FALL	CORE K VALUE / THERMAL CONDUCTIVITY
765 mm cover	S Grade Polystyrene 16.0 kg/m ³	Minimum 1.2 m Maximum 9.0 m Cut to order	2°	0.0394 W/mK

VERSALINK SKIN DETAILS				
STEEL FACE	THICKNESS	SUBSTRATE	GLOSS LEVEL	PROFILE & COLOUR
Upper skin	0.42 mm	Zincalume AZ150 G550 steel	25%	28mm Trapezoidal profile in: Bushland – Classic Cream – Dune – Headland – Evening Haze – Wilderness – Pale Eucalypt – Paperbark – Jasper – Shale Grey – Surf Mist – Woodland Grey – Sandbank – Zincalume
Lower skin	0.40 mm	Zincalume coated G300 steel	10%	Smooth OR Stucco OR Micraline  in Thredbo White only

VERSALINK TECHNICAL DATA			
Core Thickness	Overall Thickness	Weight kg/m ²	Mean 'R' value
50 mm	78 mm	7.60	1.28
75 mm	103 mm	8.00	1.91
100 mm	128 mm	8.40	2.54
125 mm	153 mm	8.80	3.18



VERSALINK SPAN TABLES*				
WIND CLASS	PANEL SIZE	MAX SINGLE SPAN (mm)		
		Fully enclosed	One side open	Two/Three sides open
N1 (W28N)	50 mm	4512	4512	4512
	75 mm	5910	5590	6208
	100 mm	6690	6330	7060
	125 mm	7600	7190	8010
N2 (W33N)	50 mm	4210	4030	4450
	75 mm	4900	4690	5180
	100 mm	5550	5320	5870
	125 mm	6310	6040	6660
N3 (W41N)	50 mm	3320	3170	3490
	75 mm	3870	3690	4060
	100 mm	4380	4170	4600
	125 mm	4970	4740	5220
N4 (W50N)	50 mm	2700	2580	2830
	75 mm	3140	3000	3300
	100 mm	3560	3400	3740
	125 mm	4040	3860	4240
C1 (W41C)	50 mm	3180	2520	3330
	75 mm	3700	2940	3880
	100 mm	4190	3330	4390
	125 mm	4750	3780	4990
C2 (W50C)	50 mm	2580	2060	2710
	75 mm	3000	2390	3150
	100 mm	3400	2710	3570
	125 mm	3860	3080	4060
C3 (W60C)	50 mm	2110	1690	2210
	75 mm	2450	1970	2580
	100 mm	2780	2230	2920
	125 mm	3160	2530	3320

* In accordance with: Wind actions: AS/NZS 1170.2:2002 – Clauses 5.3, 5.4
 Imposed load on roof: AS/NZS 1170.1:2002 – Clause 3.5

CANTILEVER / OVERHANG

The maximum cantilever ability of the panels is **25% of the allowable span**.

For Versalink 125mm panels that's **up to 2.00m**.

The small print: You only need to make sure that you have double the desired cantilever as a backspan. Eg, for a 1m cantilever your panel needs to be 3m – a 2m backspan + 1m cantilever.

Fixing detail

- Fixed to support member with 14g self-drilling screws at every crest
- Typically 4 screws to each panel, at each support.

Cyclonic fixing

- Fixed to supporting member with 14g self-drilling screws and cyclone assemblies or washers at every crest
- Typically 4 screws and cyclone assemblies or washers to each panel at each support
- Uplift load capacity of fixing to supporting members shall be based on engineering advice
- Max cantilever is 25% of the allowable span.

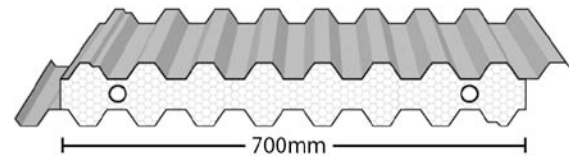
Notes

- All windows included in the building shall be rated N1, N2, N3, N4, C1, C2, C3, in accordance with AS 2047
- All glass included in the building shall be rated, N1, N2, N3, N4, C1, C2, C3, in accordance with AS 1288
- For buildings in cyclonic wind regions, the building envelope (windows, doors and cladding) shall be capable of resisting impact loading equivalent to a 4kg piece of timber of 100 mm x 50 mm cross-section, projected at 15 m/s at any angle in accordance with Clause 5.3.2, AS/NZS 1170.2:2002.

MULTIDEK STRUCTURAL INSULATED ROOF PANEL

FEATURES

- Minimum roof pitch only 2°
- Our longest trafficable unsupported span of up to 9.00m means less unsightly support beams
- Lightweight and easy to install
- Multi trapezoidal profile both sides
- Wiring services run through core ducts
- Fire retardant EPS insulated core dramatically reduces radiant heat transfer, mould, condensation, and rain noise.



MULTIDEK SPECIFICATIONS				
WIDTH	CORE	LENGTH	MIN. ROOF PITCH / FALL	CORE K VALUE / THERMAL CONDUCTIVITY
700 mm cover	S Grade Polystyrene 16.0 kg/m ³	Minimum 1.2 m Maximum 9.0 m Cut to order	2°	0.0394 W/mK

MULTIDEK SKIN DETAILS				
STEEL FACE	THICKNESS	SUBSTRATE	GLOSS LEVEL	PROFILE & COLOUR
Upper skin	0.42 mm	Zincalume AZ150 G550 steel	25%	28mm Multi Trapezoidal profile in: Bushland – Classic Cream – Dune – Headland – Evening Haze – Wilderness – Pale Eucalypt – Paperbark – Jasper – Shale Grey – Surf Mist – Woodland Grey – Sandbank – Zincalume
Lower skin	0.42 mm	Zincalume AZ150 G550 steel	25%	28mm Multi Trapezoidal profile in same colour options as above.

MULTIDEK TECHNICAL DATA			
Core Thickness	Overall Thickness	Weight kg/m ²	Mean 'R' value
100 mm	100 mm	9.80	2.54
125 mm	125 mm	10.20	3.18
140 mm	140 mm	10.60	3.56



CANTILEVER / OVERHANG

The maximum cantilever ability of the panels is **25% of the allowable span**.

For Multidek 140mm panels that's **up to 2.25m**.

The small print: You only need to make sure that you have double the desired cantilever as a backspan. Eg, for a 1m cantilever your panel needs to be 3m – a 2m backspan + 1m cantilever.

Fixing detail

- Fixed to support member with 14g self-drilling screws at every alternate crest
- Typically 4 screws to each panel, at each support.

Cyclonic fixing

- Fixed to supporting member with 14g self-drilling screws and cyclone assemblies or washers at every alternate crest
- Typically 4 screws and cyclone assemblies or washers to each panel at each support
- Uplift load capacity of fixing to supporting members shall be based on engineering advice
- Max cantilever is 25% of the allowable span.

Notes

- All windows included in the building shall be rated N1, N2, N3, N4, C1, C2, C3, in accordance with AS 2047
- All glass included in the building shall be rated, N1, N2, N3, N4, C1, C2, C3, in accordance with AS 1288
- For buildings in cyclonic wind regions, the building envelope (windows, doors and cladding) shall be capable of resisting impact loading equivalent to a 4kg piece of timber of 100 mm x 50 mm cross-section, projected at 15 m/s at any angle in accordance with Clause 5.3.2, AS/NZS 1170.2:2002.

MULTIDEK SPAN TABLES*				
WIND CLASS	PANEL SIZE	MAX SINGLE SPAN (mm)		
		Fully enclosed	One side open	Two/Three sides open
N1 (W28N)	100 mm	6483	6483	6483
	125 mm	8386	8054	8528
	140 mm	9000	8810	9000
N2 (W33N)	100 mm	6483	6483	6483
	125 mm	8326	8054	8528
	140 mm	9000	8810	9000
N3 (W41N)	100 mm	5917	5702	6124
	125 mm	7104	6845	7352
	140 mm	7771	7488	8043
N4 (W50N)	100 mm	5072	4915	5250
	125 mm	6088	5900	6303
	140 mm	6660	6454	6895
C1 (W41C)	100 mm	5917	4991	6124
	125 mm	7104	5991	7352
	140 mm	7771	6554	8043
C2 (W50C)	100 mm	5072	4332	5250
	125 mm	6088	5200	6303
	140 mm	6660	5689	6895
C3 (W60C)	100 mm	4436	3810	4580
	125 mm	5536	4574	5498
	140 mm	5826	5004	6014

* In accordance with: Wind actions: AS/NZS 1170.2:2002 – Clauses 5.3, 5.4
Imposed load on roof: AS/NZS 1170.1:2002 – Clause 3.5

WALLS

Versiclad has been manufacturing insulated wall panels in Australia since 1986, utilising a wide range of materials bonded to a fire retardant EPS insulated core. Our in house designed and built manufacturing lines encouraged Versiclad to explore the many alternative panel linings we offer today, many of which may be mixed and matched.

With almost endless exterior and interior finish combinations available our insulated sandwich wall panels can be used in a wide range of commercial, industrial and residential applications. The standard range of panel systems are complimented by the ability to supply custom made wall panels using a variety of different products to suit the most innovative requirements.

WALL PANEL SUMMARY TABLE

	Versipanel	Panelink	Rendapanel	Internal Partition
Wall Profiles				
External skin material	Oriented Strand Board (OSB)	Aluminum / Steel	Fibre Cement	n/a
Internal skin material	Oriented Strand Board (OSB)	<ul style="list-style-type: none"> Aluminum Steel Vinyl Steel Gyprock OSB Fibre Cement Ply 	<ul style="list-style-type: none"> Fibre Cement Gyprock Decorative Ply 	<ul style="list-style-type: none"> Decorative Ply Gyprock
Panel width	1200mm	1200mm (all) 1000mm (Steel/Steel only)	1200mm 900mm (FC only)	1200mm
Panel length	2440, 2745, 3050mm	<ul style="list-style-type: none"> Std 2400, 2700, 3000mm Aly/Aly up to 5000mm Steel/Steel up to 6000mm 	2400, 2700, 3000mm	<ul style="list-style-type: none"> Ply 2440mm Gyprock 2400, 2700, 3000mm
Insulation R-value	Up to R 2.33	Up to R 1.84	Up to R 1.70	Up to R 1.75
Overall panel thickness	103mm	38mm, 50mm, 75mm	38mm, 50mm, 75mm	38mm, 50mm, 75mm

For alternate configurations please see wall options table in brochure.

STRUCTURAL INSULATED WALL PANEL (SIP)

Our latest addition, **Versipanel**, offers the bracing capacity of OSB, an insulated core coupled together with the structural strength of a hidden internal framing system. Able to be flat packed to the most remote of building sites, the **Versipanel** may be finished off with a variety of cladding options, and erected by as little as two men armed with nail guns. Quick and easy installation renders the **Versipanel** as the perfect option for complete homes, home extensions, granny flats, holiday cabins.

Versipanel

STRUCTURAL INSULATED WALL PANEL

FEATURES

- **Versipanel** is simple to install being lightweight, easy to cut, nail, screw and drill
- Oriented Strand Board (OSB) is a strong and durable engineered board with consistent structural properties
- OS'Brace® H2 Blue boards are termite treated
- The OSB skins utilise softwood from sustainable managed forests
- Structural wall panels mean minimal framing required, drastically reducing materials needed and construction times
- Custom 103mm thick panel hide the timber studs between panels
- R value of 2.48, not including cladding
- Wiring services can be run through core ducts
- Fire retardant EPS insulated core dramatically reduces radiant heat transfer.



WHAT IS VERSIPANEL MADE OF?

Versipanel is comprised of OS'Brace® H2 Blue oriented strand boards with a fire retardant expanded polystyrene core.

The OS'Brace® H2 Blue boards that form the external skins of Versipanel are a high quality, innovative, and environmentally sustainable structural bracing panel that has been termite treated to H2 level. Designed and manufactured in Germany specifically for the Australian construction industry. OSB is being used for the same applications as plywood around the world and performs on a comparable level with regards to physical and mechanical properties and characteristics.

OS'Brace® is a three layered flat-pressed panel of oriented strands (micro-veneers) bonded with synthetic resin in accordance with EN300:1997 OSB. The panel is principally made of peeled softwood (pine) from sustainable managed forests. Separate strand processing for the core and surface layers, special strand geometry and a high level of orientation of the surface strands in the direction of the fibre optimizes the structural performance and physical appearance. OS'Brace® is a low emitting product and fulfills the most stringent European E1 (< 0.1 ppm) regulations.

EXTERNAL PANEL FINISHES

Common exterior finishes to Versipanel include cladding, rendering, brick veneer or metal cladding. Most commonly, interior walls are lined with plasterboard then set.

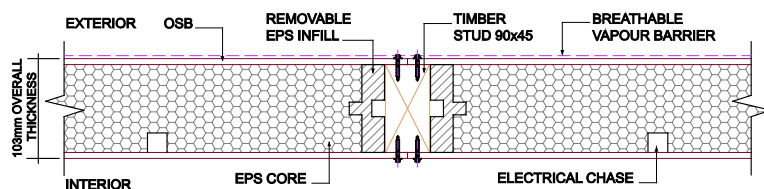
FIRE - Versipanel, when lined with plasterboard, meet all building regulation requirements for fire resistance.

TERMITES - OS'Brace® H2 Blue boards are fully H2 treated to Australian standards.

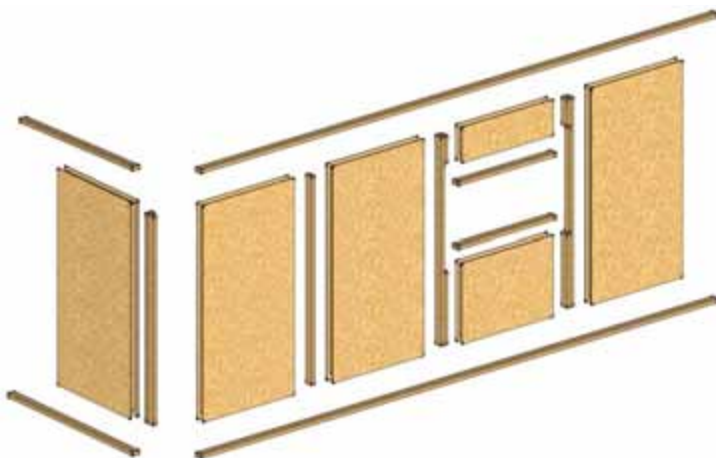
VERSIPANEL SPECIFICATIONS				
EXTERNAL SKINS	CORE	WIDTH	LENGTHS	CORE K VALUE / THERMAL CONDUCTIVITY
6 mm OS'BRACE® H2 Blue board	SL Grade Polystyrene 13.5 kg/m ³	1200 mm	2440 mm 2745 mm 3050 mm	0.0407 W/mK

VERSIPANEL TECHNICAL DATA			
Core Thickness	Overall Thickness	Weight kg/m ²	Mean 'R' value
91 mm	103 mm	9.33	2.33

WALL CROSS SECTION



WALL FRAMING SYSTEM



Please contact Versiclad for engineering documentation.

STRUCTURAL PERFORMANCE REQUIREMENTS

1. Wall height (vertical span) = 2.7m for Wind Class N3 in accordance with AS 4055 [2.4]

2. Bracing capacity or racking resistance for wall height up to 2.7m: [3.4]

A typical bracing system - Brace System Type #1, with OSB skins connected or fastened to timber bottom plate, studs and top plate in accordance with Manufacturer's specifications is as follows:-

2.1. Ultimate Limit State (ULS) bracing capacity = 3.4kN/m obtained with following specifications:

- Timber joint group JD3 [2.5]
- Fasteners – Galvanized corrosion resistant 2.8 mm diameter x 30mm length flat head nails or their gun-driven equivalents
- Fastener spacing centres:
 - a) 80mm on top and bottom plates; and
 - b) 150 mm on vertical studs
- Fastener edge distances:
 - a) 15mm minimum on top and bottom plates, and
 - b) 8mm minimum on vertical studs.



Versiclad

insulated panel solutions for
roofs, ceilings and walls



structural roofing

versatile .. insulating .. long spans .. modular .. strong



CORROLINK - DOUBLE CORROLINK - VERSALINK - MULTIDEK - SPACEMAKER

Thinking of a new roof? Need to insulate?

Look no further than Versiclad 3 in 1 insulated roofing for your domestic or commercial application. Lightweight and easy to install, our roof panels offer large trafficable unsupported spans and a clean interlocking ceiling face with no visible fixings. Our roofing products not only reduce the heat in summer, but help eliminate ceiling mould and condensation during winter.

Versiclad structural roofing panels are a speciality product combining an exterior profiled roof skin, polystyrene insulation core, and a pre-finished maintenance free ceiling face. Whether your building a room, screen enclosure, pergola, site office or factory, our fully insulated roof panels will ensure your comfort all year round.

CORROLINK	DOUBLE CORROLINK	VERSALINK	MULTIDEK	SPACEMAKER
Features	Features	Features	Features	Features
Cover width 765mm	Cover width 765mm	Cover width 765mm	Cover width 700mm	Cover width 1000mm
Lengths 1.2m → 9m	Lengths 1.2m → 9m	Lengths 1.2m → 9m	Lengths 1.2m → 9m	Lengths 1.8m → 15m
Unsupported span up to 9m	Unsupported span up to 9m	Unsupported span up to 8.01m	Unsupported span up to 9m	Unsupported span up to 7.24m
Insulation value up to R 5.13	Insulation value up to R 3.56	Insulation value up to R 3.18	Insulation value up to R 3.56	Insulation value up to R 2.37
Min roof pitch 5°	Min roof pitch 5°	Min roof pitch 2°	Min roof pitch 2°	Min roof pitch 1°
Core thickness (mm) 65, 85, 115, 150, 200	Core thickness (mm) 75, 100, 125, 140	Core thickness (mm) 50, 75, 100, 125	Core thickness (mm) 100, 125, 140	Core thickness (mm) 50, 75, 90
Colours 15 colours	Colours 15 colours	Colours 15 colours	Colours 15 colours	Colours 2 colours

ceilings

cost effective .. durable .. low maintenance .. stylish

Ceilink

Developed specifically to help you tolerate the extreme Australian heat, Ceilink was designed to insulate any new or existing single skin roof and provide a comfortable living environment. With it's easy to install joining system, the lightweight panels leave an attractive maintenance free non-reflective ceiling face with no visible fixings. Ceilink also dramatically reduces ceiling mould and condensation problems during winter. Install Ceilink now and be comfortable all year round.

For use in domestic and commercial applications:

Patios
Awnings
Sheds

Pergolas
Sunrooms
Garages

Screen Enclosures
Factory Units
Commercial Kitchens

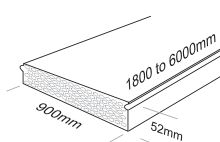
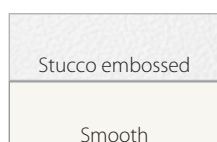
New Ceilink
DIY website
www.ceilink.com.au



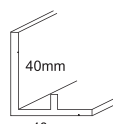
Ceilink features

Panel cover	900 mm
Overall thickness	52 mm
Min / Max length	1800 mm / > 6000 mm
Unsupported span	4000 mm
Mass kg / m ²	3.85
Colour / Finishes	Thredbo White in Stucco or Smooth
Materials	Steel face, EPS core, Reflective Foil back
Noise absorption	NRC 0.15

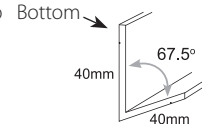
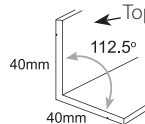
Insulation R value	Up to R 2.75 - assuming a 100mm cavity in summer
Joining system	Interlocking tongue & groove
Framing system	Thredbo White extruded aluminium angles
Self drilling screws	White smooth top self drilling tek screws 16mm - can be used in place of rivets
LED downlights	<ul style="list-style-type: none"> • 240v - straight to mains • Dimmable • 90mm diametre face x 84mm high • 7.9w LED with integrated driver • Fire rated • Brighter than a 50w GU10 globe



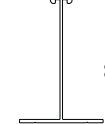
Standard perimeter angle



Gable angles to suit 22.5° roof pitch

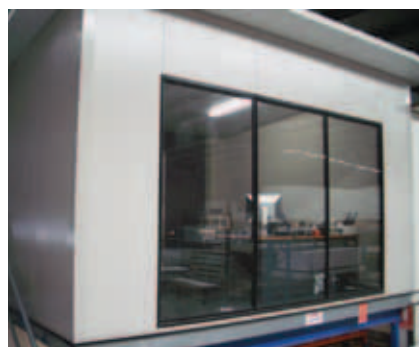


T-Bar angle



walls

design flexibility .. diy .. quick & easy .. light weight



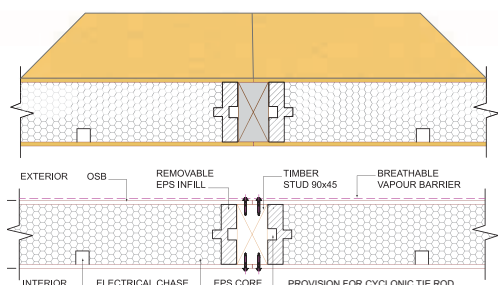
PANELINK - RENDAPANEL - INTERNAL PARTITION

With a vast number of finish combinations available, our insulated sandwich wall panels can be used in a wide range of commercial, industrial and residential applications. The standard range of panel systems are complimented by the ability to supply custom made panels using a variety of products to suit the most innovative requirements.

Versipanel STRUCTURAL INSULATED WALL PANEL

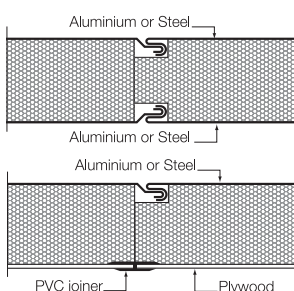
Our latest addition, Versipanel, offers the bracing capacity of OSB, an insulated core coupled together with the structural strength of a hidden internal framing system. Able to be flat packed to the most remote of building sites, the Versipanel may be finished off with a variety of cladding options. Quick and easy installation renders the Versipanel as the perfect option for complete homes, home extensions, granny flats and holiday cabins.

VERSIPANEL



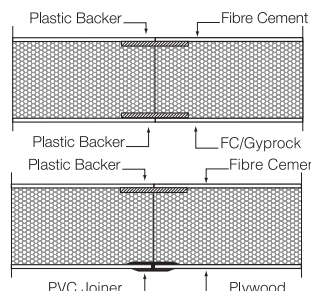
Materials	Oriented Strand Board (OSB)
Panel Thickness	103mm
Insulation values	R 2.33

PANELINK



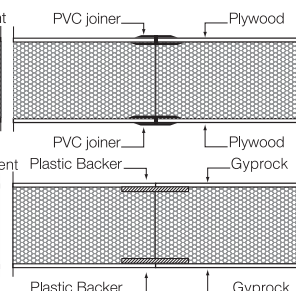
Ext: ALU, STL	Int: ALU, STL, Vinyl STL, GYP, FC, OSB, Ply
38mm, 50mm, 75mm	
up to R 1.84	

RENDAPANEL



Ext: FC, OSB	Int: FC, OSB, GYP, Ply
38mm, 50mm, 75mm	
up to R 1.70	

INTERNAL PARTITION



Decorative Ply, Gyprock
38mm, 50mm, 75mm
up to R 1.75

Panel width and length information on next page. Visit www.versiclad.com.au to see over 40 internal/external wall finish options.

modular building panels

free standing rooms .. home extensions .. sunrooms ..



WALLS CONFIGURATION TABLE

Alternate materials and sizes available on request.

OPTIONAL LININGS		EXTERIOR					
		Aluminium* 1200mm Width	Steel* 1200mm Width	Steel* 1000mm Width	FC 4.5mm SE 900mm or 1200mm Width	FC 6.0mm SE or RE 1200mm Width	6.0mm OSB 1200mm Width
INTERIOR	Aluminium* 1200mm Width	2400, 2700, 3000, 3300 [^]	2400, 2700, 3000, 3300 [^]	N/A	(1200mm only) 2400, 2700, 3000	2400, 2700, 3000	2440, 2745, 3050
	Steel* 1200mm Width	2400, 2700, 3000, 3300 [^]	2400, 2700, 3000, 3300 ⁺	N/A	(1200mm only) 2400, 2700, 3000	2400, 2700, 3000	2440, 2745, 3050
	Steel* 1000mm Width	N/A	N/A	2400, 2700, 3000, 3300 ⁺	N/A	N/A	N/A
	Vinyl Steel* 1000mm Width	N/A	N/A	2400, 2700	N/A	N/A	N/A
	FC 4.5mm SE 900mm or 1200mm Width	(1200mm only) 2400, 2700, 3000	(1200mm only) 2400, 2700, 3000	N/A	1800 [#] , 2400, 2700, 3000 ([#] 900mm wide only)	(1200mm only) 2400, 2700, 3000	2400, 2700, 3000
	FC 6.0mm SE or RE 1200mm Width	2400, 2700	2400, 2700	N/A	on request	2400, 2700, 3000	2400, 2700, 3000
	Decorative Ply 1200mm Width	2440	2440	N/A	2400	2400	2440
	10mm Gyprock 1200mm Width	2400, 2700, 3000	2400, 2700, 3000	N/A	(1200mm only) 2400, 2700, 3000	2400, 2700, 3000	2400, 2700, 3000
	6.0mm OSB 1200mm Width	2440, 2745 3050	2440, 2745 3050	N/A	(1200mm only) 2400, 2700 3000	2400, 2700, 3000	2440, 2745, 3050

* Self mating joint system ^ Custom lengths up to 5m + Custom lengths up to 6m

www.versiclad.com.au info@versiclad.com.au



PANEL INNOVATION

From the humble garden shed or cool room to a granny flat, houseboat or complete architect designed eco home, Versiclad insulated panels can truly build it all.

Residential and commercial usage of Versiclad insulated panels range from a simple insulated ceiling through to a new home or cladding the Rod Laver Arena. Whether you're a professional builder, an architect, or want to do it yourself, our products are easy to install, versatile and fully guaranteed.

Versiclad

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