



INDUSTRIAL

COMMERCIAL

AGRICULTURAL

enviropANEL

INSULATED STRUCTURAL PANEL

FEATURES AND BENEFITS

Fast and easy installation

Sleek architectural appearance

Large spans and superior strength

Long term thermal performance

Cost Effective with Design flexibility

APPLICATIONS

Cold Storage and Freezers

Clean Rooms and Storage Facilities

Industrial and Commercial Builds

Agricultural Buildings

Transportable Buildings

Wall Partitions

Carports and Man Caves

Typical Hobby and Garden Sheds

Residential Skillion

Enviroclad's Enviropanel Insulated Structural Panel is the optimum product for Australians to safely invest in. Our Panels are an extremely light weight building product with exceptional strength and versatility. The low cost and fast assembly ensures the lowest building costs with sharp architectural appearance and excellent insulation values.

Enviropanel is made and manufactured by a 100% Australian owned company. All the materials are of the highest quality including G3000 CRP Grade Colorbond Steel with a Fire Retardant EPS Core and standard white EPS to reach an elite performing 'R' Value.

Our panel contains a Expanded Polystyrene Core that is manufactured on site with the a Fire Retardant coating. When exposed to flame the EPS-FR will melt away from the flame and self-extinguish when the flame is removed.

With the technology of the Flame Retardant EPS core, and the specific modern construction methods, our Arctic Steel Panels are an extremely safe and cost effective building solution for whatever your project or ambition. The panels can be used for any construction within its limitations that is not required to be a fire wall.

Our Enviropanel remains the most affordable product of anything in its class and with a low overhead processing facility, Enviroclad will make certain it stays that way. With the many benefits, we can supply any enterprise large or small.

Applications include wall and ceiling installations for internal and external builds, all with a one step double sided finish selected from a vast range of Colorbond colours, Including Coolroom White.

ENVIROPANEL INSULATED STRUCTURAL PANEL COLOUR RANGE



COOLROOM WHITE



CLASSIC CREAM



PAPERBARK



PALE EUCALYPT



SHALE GREY



WOODLAND GREY



MONUMENT



NIGHT SKY



INDUSTRIAL



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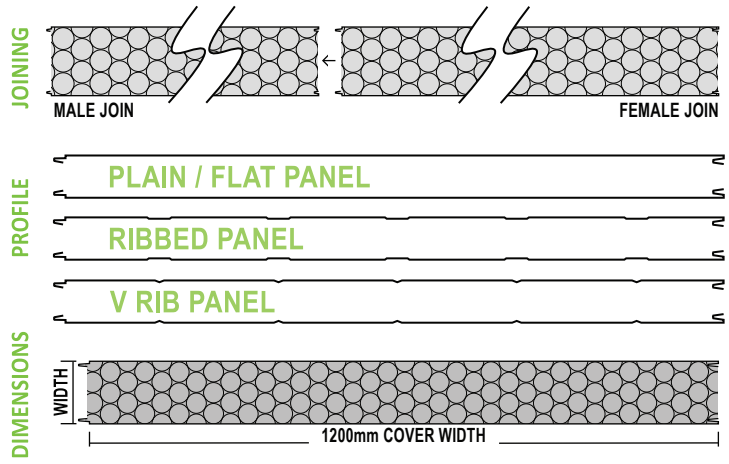
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FEATURES

CORE:	EPS-FR (EXPANDED POLYSTYRENE WITH FIRE RETARDANT)	
SKINS:	BLUESCOPE 0.6MM, 0.4MM G300 COLOURBOND STEEL	
WIDTH:	1200MM	(TOLERANCE +/- 1mm)
THICKNESS (mm):	33, 50, 75, 100, 125, 150, 200, 250	(TOLERANCE +/- 1mm)
LENGTH:	1,800mm TO 17,000mm	(TOLERANCE +/- 5mm)
FINISHES:	PLAIN, RIBBED, V RIB	

* Illustrations of profile finishes have been exaggerated *

Colorbond®



PRESSURE SPAN TABLES

0.4MM PANEL NON-CYCLONIC REGION A&B (WALL APPLICATION ONLY)

SL Grade EPS-FR Core / 0.4 Steel Skins.

Maximum uniformity distributed ultimate wind load (kPa) for the given span:

Panel Thickness (mm)	Span (mm)													
	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
	Single Span - Wind Pressure Acting Inwards / Outwards													
50	2.95	2.06	1.73	1.43	1.05	0.80	0.64	0.51	0.45	0.38				
75	4.43	3.09	2.60	2.14	1.66	1.30	1.03	0.83	0.69	0.58	0.49	0.43	0.37	
100	5.90	4.11	3.46	2.85	2.22	1.74	1.37	1.11	0.92	0.77	0.66	0.57	0.49	0.43
125	7.38	5.14	4.33	3.57	2.77	2.17	1.72	1.39	1.15	0.97	0.82	0.71	0.62	0.54
150	8.85	6.17	5.19	4.28	3.33	2.61	2.06	1.67	1.38	1.16	0.99	0.85	0.74	0.65
200	11.80	8.23	6.93	5.71	4.44	3.48	2.75	2.23	1.84	1.55	1.32	1.14	0.99	0.87
250	14.76	10.29	8.66	7.13	5.55	4.35	3.44	2.78	2.30	1.93	1.65	1.42	1.24	1.09

Panel Thickness (mm)	Span (mm)													
	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
	Single Span - Wind Pressure Acting Inwards / Outwards													
50	2.36	1.65	1.39	1.24	0.98	0.89	0.72	0.58	0.53	0.45	0.31			
75	3.54	2.47	2.08	1.86	1.56	1.44	1.03	0.83	0.69	0.58	0.49	0.43	0.37	
100	4.72	3.29	2.77	2.48	2.07	1.93	1.37	1.11	0.92	0.77	0.66	0.57	0.49	0.43
125	5.90	4.11	3.46	3.10	2.59	2.41	1.72	1.39	1.15	0.97	0.82	0.71	0.62	0.54
150	7.08	4.94	4.16	3.72	3.11	2.89	2.06	1.67	1.38	1.16	0.99	0.85	0.74	0.65
200	8.68	6.05	5.09	4.20	3.70	3.16	2.75	2.23	1.84	1.55	1.32	1.14	0.99	0.87
250	8.68	6.05	5.09	4.20	3.70	3.16	2.91	2.65	2.23	1.91	1.65	1.42	1.24	1.09

0.6MM PANEL NON-CYCLONIC REGION A&B (WALL APPLICATION ONLY)

SL Grade EPS-FR Core / 0.6 Steel Skins.

Maximum uniformity distributed ultimate wind load (kPa) for the given span:

Panel Thickness (mm)	Span (mm)													
	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
	Single Span - Wind Pressure Acting Inwards / Outwards													
50	3.35	2.34	1.97	1.62	1.19	0.91	0.76	0.62	0.51	0.43				
75	5.03	3.51	2.95	2.43	1.89	1.48	1.17	0.95	0.78	0.66	0.56	0.48	0.42	
100	6.71	4.68	3.93	3.24	2.52	1.98	1.56	1.26	1.05	0.88	0.75	0.65	0.56	0.49
125	8.38	5.85	4.92	4.05	3.15	2.47	1.95	1.58	1.31	1.10	0.94	0.81	0.70	0.62
150	10.06	7.01	5.90	4.86	3.78	2.96	2.34	1.90	1.57	1.32	1.12	0.97	0.84	0.74
200	13.41	9.35	7.87	6.49	5.04	3.95	3.12	2.53	2.09	1.76	1.50	1.29	1.12	0.99
250	16.77	11.69	9.84	8.11	6.30	4.94	3.90	3.16	2.61	2.20	1.87	1.61	1.41	1.24

Panel Thickness (mm)	Span (mm)													
	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
	Single Span - Wind Pressure Acting Inwards / Outwards													
50	2.68	1.87	1.57	1.41	1.11	1.01	0.82	0.66	0.60	0.52	0.35			
75	4.02	2.81	2.36	2.11	1.77	1.64	1.17	0.95	0.78	0.66	0.56	0.48	0.42	
100	5.37	3.74	3.15	2.82	2.36	2.19	1.56	1.26	1.05	0.88	0.75	0.65	0.56	0.49
125	6.71	4.68	3.93	3.52	2.95	2.74	1.95	1.58	1.31	1.10	0.94	0.81	0.70	0.62
150	8.05	5.61	4.72	4.23	3.53	3.28	2.34	1.90	1.57	1.32	1.12	0.97	0.84	0.74
200	9.86	6.88	5.79	4.77	4.20	3.59	3.12	2.53	2.09	1.76	1.50	1.29	1.12	0.99
250	9.86	6.88	5.79	4.77	4.20	3.59	3.31	3.01	2.54	2.17	1.87	1.61	1.41	1.24

COLD STORAGE SPAN TABLES

0.4MM COLD STORAGE SPAN TABLE - INTERNAL COLD STORAGE

SL Grade EPS-FR Core / 0.4 Steel Skins, Maximum Span (mm):

Single Span, internal cold storage 0 degrees or more

Application	Panel Thickness (mm)						
	50	75	100	125	150	200	250
Walls (Non-Load Bearing)	-	5200	6500	7700	8500	10000	11100
Walls (Load Bearing)	-	4300	5500	6400	7000	8400	9500
Ceilings	-	4500	5600	6600	7200	8500	9100

Multi Span, internal cold storage 0 degrees or more

Application	Panel Thickness (mm)						
	50	75	100	125	150	200	250
Walls (Non-Load Bearing)	-	6000	7000	8100	8300	9800	10800
Walls (Load Bearing)	-	5100	5800	6500	7300	8500	9800
Ceilings	-	5000	5500	6300	6900	8200	9100

0.6MM COLD STORAGE SPAN TABLE - INTERNAL COLD STORAGE

SL Grade EPS-FR Core / 0.6 Steel Skins, Maximum Span (mm):

Single Span, internal cold storage 0 degrees or more

Application	Panel Thickness (mm)						
	50	75	100	125	150	200	250
Walls (Non-Load Bearing)	-	5600	7000	8200	9100	10700	11800
Walls (Load Bearing)	-	5100	6500	7500	8100	9500	10600
Ceilings	-	5300	6500	7700	8300	9500	9700

Multi Span, internal cold storage 0 degrees or more

Application	Panel Thickness (mm)						
	50	75	100	125	150	200	250
Walls (Non-Load Bearing)	-	6400	7400	8700	8900	10400	11500
Walls (Load Bearing)	-	6000	6800	7600	8300	9700	800
Ceilings	-	5800	6500	7400	8000	9300	9700

WEIGHTS AND 'R' VALUES

EPS Sandwich Panel Calculated Thermal Performance 'R' Value							
Panel Thickness (mm)	50	75	100	150	200	250	
EPS-FR Standard White 'SL' Grade 13.5 kg/m ²	1.47	2.1	2.72	3.97	5.22	6.47	

EPS Sandwich Panel Weight							
Panel Thickness (mm)	50	75	100	150	200	250	
EPS-FR Panel 0.6mm Steel Skinned kg/m ²	11.3	11.6	12	12.7	13.2	14.12	
EPS-FR Panel 0.4mm Steel Skinned kg/m ²	7.88	8.18	8.58	9.28	9.88	10.7	

EPS Sandwich Panel Calculated Thermal Performance 'R' Value Calculations

The calculations were formulated by the following calculations:

EPS-FR Standard White 'SL' Grade 13.5kg/m² has a thermal conductivity figure of = 0.04 W/mk

Calculation Example based on 100mm SL Panel

'R' = Panel thickness = 0.1mtr

Conductivity Figure 0.032 W/mk

'R' = 3.125 + .22 ('R' Value of Coil and Adhesive)

'R' Value @ 23 Degrees Celcius = 3.345



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