

Product Description

SolarSpan® is a long-spanning commercial and residential insulated roof panel system that combines roofing, EPS-FR insulation and a pre-painted ceiling in one durable, functional and attractive roof panel. This all-in-one roofing solution is manufactured using Australian-made COLORBOND® steel for durability and is installed in a variety of applications including educational facilities, multi-residential housing and retail facilities and is tested for use in cyclonic regions.

Panel Properties						
Panel Thickness (mm)	50	75	100	125	150	200
Mass (kg/m ²)	10.58	10.94	11.30	11.64	11.98	12.65
Thermal Performance at 8°C						
'R' Value (m ² K/W)	1.60	2.30	2.90	3.60	4.20	5.50
Thermal Performance at 20°C						
'R' Value (m ² K/W)	1.60	2.20	2.80	3.50	4.10	5.30

Span Table

NON-CYCLONIC REGION A&B (ROOF APPLICATIONS ONLY)

SL Grade EPS-FR Core / 0.42mm Hi-tensile External / 0.6mm Internal Steel Skins.
Maximum uniformly distributed ultimate wind load (kPa) for the given span:

Single Span, wind pressure acting outwards						
Span (mm)	Panel Thickness (mm)					
	50	75	100	125	150	200
1500	5.16	7.32	9.41	10.98	13.26	16.78
2700	2.35	3.74	4.63	5.55	6.78	9.28
3900	1.28	2.01	2.56	3.12	3.67	4.79
5100	0.78	1.22	1.54	1.87	2.19	2.85
6300	-	0.83	1.04	1.26	1.47	1.91
7500	-	-	0.77	0.92	1.07	1.38
8700	-	-	0.59	0.71	0.82	1.05

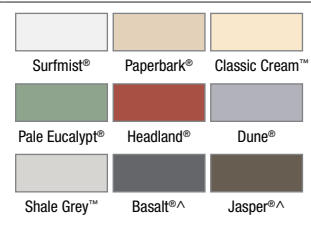

Multi-span, wind pressure acting outwards						
Span (mm)	Panel Thickness (mm)					
	50	75	100	125	150	200
1500	4.15	5.88	7.57	7.74	7.74	7.75
2700	2.35	3.31	4.25	4.35	4.35	4.35
3900	1.44	2.32	2.97	3.04	3.04	3.05
5100	0.88	1.51	2.14	2.35	2.35	2.36
6300	-	1.02	1.44	1.69	1.92	1.93
7500	-	-	1.04	1.22	1.41	1.64
8700	-	-	-	-	1.07	1.35

Recommended Uses

House roofing, patios, pergolas, carports, portable buildings, home extensions, spray booths, wineries and most insulated roofing applications.



Colorbond®
Made for Australia

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1000
Thickness (mm)	50, 75, 100, 125, 150, 200
Length	Up to 24m (check for availability)
Exterior Facing Skin	0.42mm G550 Zincalume™ or COLORBOND® steel
Interior Facing Skin	0.5mm, 0.6mm G300 COLORBOND® steel
Standard Exterior Colours	
Interior Facing Colours	
Finishes	Plain, Elegance
Acoustic Properties	R _w 24-25 depending on thickness
Recommended Pitch	2 degrees minimum
Fire Hazard Properties - AS1530.3 indices	
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	1

AS/ISO 9705 - BCA Group Number (Spec C1.10a)

InsulWall® EPS-FR steel skinned insulated building panels conform to the requirements of the BCA Specification C1.10a as either Group 2 or Group 1 depending on the thickness and construction detail.

Group 1

Panel up to 250mm thick with steel 'wall-wall' and 'wall-ceiling' angles fixed with steel rivets or screws at 1200mm centres is classified as Group 1.

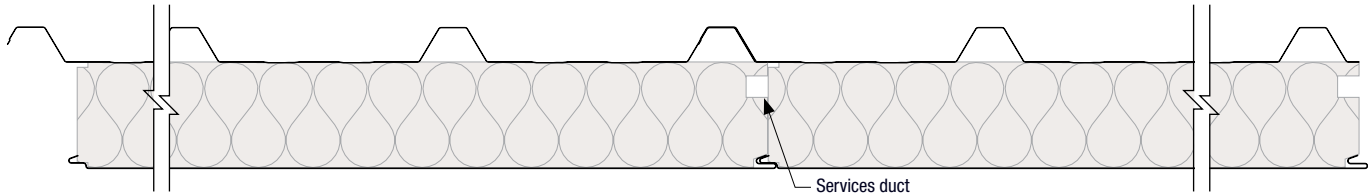
Group 2

Panel 150mm or less with an aluminium 'wall-wall' and 'wall-ceiling' angles fixed with aluminium rivets or screws at 300mm centres is classified as Group 2. Panel thicker than 150mm requires steel 'wall-wall' and 'wall-ceiling' angles fixed with steel rivets or screws at 300mm centres to be classified as Group 2.

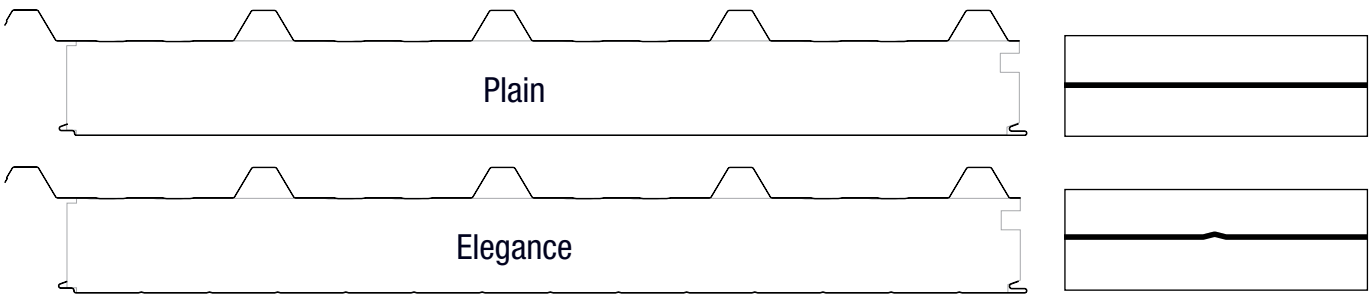
NOTES:

- Extended span tables including cyclonic regions C&D, multi-span, wind pressure acting inwards and 0.5mm interior skin are also available. Refer Bondor®.
- Fixing with 14g tek screws (or equivalent) at each rib are required.
- Pressures specified are for wind gusts only per AS 1170.
- Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 - TABLE C1.
- Self weight of the panel has been allowed for, plus an allowance of up to 10kg/m² for light duty fittings (lights, etc.). No other dead loads permitted.
- Non-trafficable maintenance access (concentrated load) of 140kg (exceeding min. requirements of AS/NZS 1170.1:2002) on any one panel has been allowed for.
- Distributed live load of 0.25kPa (as per AS/NZS 1170.1:2001) has been allowed for. Bondor® tests comply with details outlined in AS 4040, AS 1562 and as 1170.
- Min. roof slope of 2 degree applies.
- Generic engineering certification of the SolarSpan® Patio System is available for residential patios.
- ^ Darker colours warranted for use in limited regions. Check with your local SolarSpan® dealer for more information.

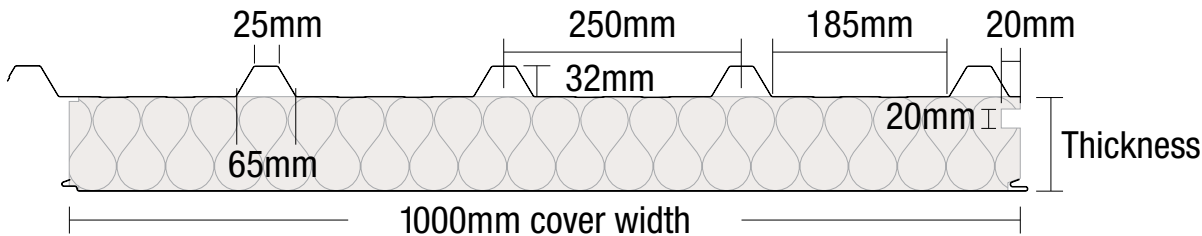
Joint



Profiles



Dimensions



Bondor® National Network

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To connect to your nearest Bondor® branch simply call 1300 300 099 or visit www.bondor.com.au

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