equideck® EPS-FR

Technical Data Sheet

Version 52
Current as of: 31/05/23

Product Description

Equideck® EPS-FR insulated roofing panel system provides a flat and standing-seam like roof profile made from COLORBOND® steel, a pre-painted ceiling underside and high performance insulated core in an all-in-one roofing panel. Equideck® is made using Australian-made COLORBOND® steel for durability and delivers a long-spanning and thermally efficient roof.

Panel Properties							
Panel Thickness (mm)	50	75	100	125	150	200	250
Typical Mass (kg/m²)	11.3	11.6	12.0	12.3	12.7	13.3	14.0
SL Grade Declared λ (W/m.K) at 23°C	0.042	0.042	0.042	0.042	0.042	0.042	0.042
SL Grade Declared R-value (m²K/W) at 23°C	1.20	1.80	2.40	3.00	3.60	4.85	6.05
SL Grade Total R-value (m²K/W) at 15°C (Winter)	1.40	2.03	2.65	3.27	3.90	5.15	6.40
SL Grade Total R-value (m²K/W) at 30°C (Summer)	1.38	1.98	2.57	3.17	3.76	4.95	6.13

Note: The Declared R-value is at 23°C in accordance with AS/NZS 4859.1:2018 & AS/NZS 4859.2:2018.

Span Table

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

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

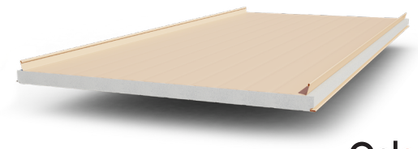
Single Span, wind pressure acting outwards							
Span (mm)	Panel Thickness (mm)						
	50	75	100	125	150	200	250
1500	3.49	5.19	6.89	8.59	10.29	12.12	12.12
2700	1.97	2.93	3.88	4.82	5.77	6.78	6.79
3900	1.06	1.67	2.20	2.73	3.25	4.31	4.74
5100	-	1.02	1.33	.164	1.95	2.57	3.18
6300	-	-	0.91	1.11	1.32	1.72	2.13
7500	-	-	-	-	0.96	1.25	1.54
8700	-	-	-	-	-	0.96	1.18

Multi Span, wind pressure acting outwards							
Span (mm)	Panel Thickness (mm)						
	50	75	100	125	150	200	250
1500	2.82	4.18	4.91	4.91	4.91	4.92	4.92
2700	1.61	2.37	2.77	2.78	2.78	2.78	2.79
3900	1.14	1.67	1.95	1.96	1.96	1.96	1.97
5100	-	1.02	1.33	1.52	1.53	1.53	1.54
6300	-	-	0.91	1.11	1.26	1.26	1.27
7500	-	-	-	-	0.96	1.08	1.08
8700	-	-	-	-	-	0.95	0.95

Quick and Easy installation

With the Equideck® unique panel design, the roofing, insulation and ceiling are installed in one simple operation. Equideck® does not need traditional requirements for ceiling lining, reflective membrane or insulating wool and painting, keeping construction time and on-site trades to a minimum.

CodeMark Australia | CMI Certification Certificate CM40195



BAL40

Colorbond® THE COLOURS OF AUSTRALIA SINCE 1966

Core	EPS-FR (Expanded Polystyrene with fire retardant)
Width (cover mm)	1200
Thickness (mm)	50, 75, 100, 125, 150, 200, 250 (non-std options available)
Length	Up to 16m (check for availability)
External Material	BlueScope® COLORBOND® Steel 0.6mm G300
External Finishes	Plain, Ribbed, Satinline
Exterior Colour Options	Surfmist®
Internal Material	BlueScope® COLORBOND® Steel 0.6mm G300
Internal Finishes	Plain
Interior Colour Options	Surfmist®
Pitch	3 degrees minimum
Paint System	AS/NZS 2728 & AS 1397
Acoustic Properties	Rw 24 - 25 depending on thickness
Material Group Numbers	Group 1 & 2[a]
Bushfire Attack Level	BAL-40 (All exposed core to be covered with flashing)
Fire Hazard Properties	AS/NZS 1530.3
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Index	2-3
$SMOGRA_{RC}$	< 100

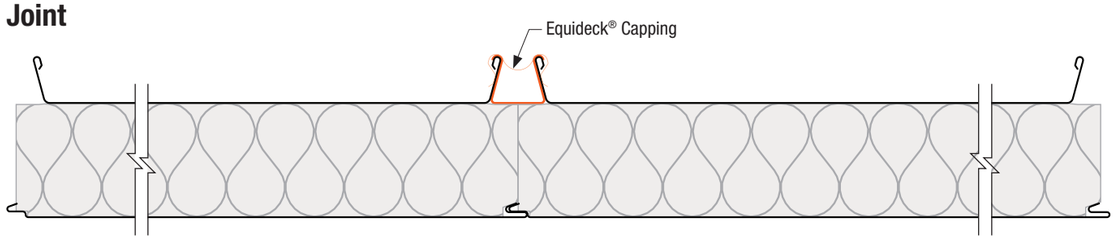
a. AS 5637.1 / AS ISO 9705 - BCA Group Number
Equideck® EPS-FR steel skinned insulated building panels conform to the requirements of the BCA Specification as either Group 2 or Group 1 depending on panel thickness and construction details. Refer Bondor® for more information.

The technical information contained in this document cover a breadth of applications where Equideck® may be used, which may be outside the scope of our Codemark certificate. Data specific to CodeMark certification can be found on Equideck®'s CoC CM40195.

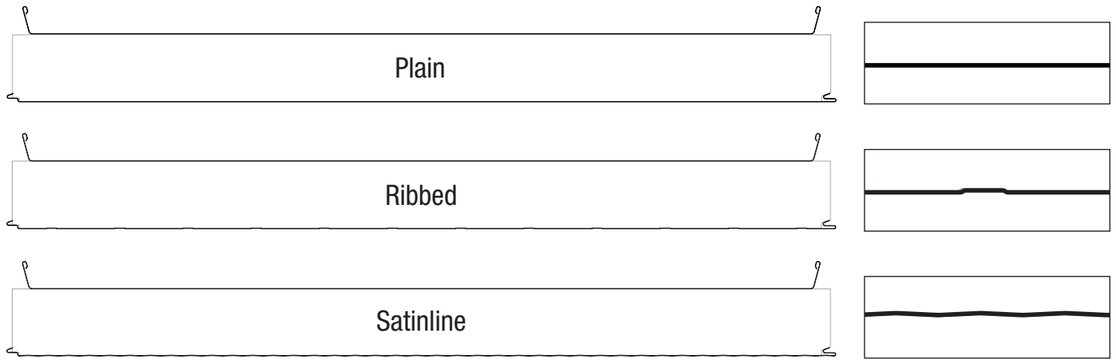
SPAN TABLE NOTES:
1. Extended span tables including wind pressure acting inwards are also available. Refer Bondor®.
2. Fixing details refer Bondor®.
3. Pressures specified are for wind gusts only per AS/NZS 1170.2.
4. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS/NZS 1170.0 - TABLE C1.
5. 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.
6. Non-trafficable maintenance access (concentrated load) of 140kg on any span has been allowed for.
7. Distributed live load of 0.25kPa (as per AS/NZS 1170.1) has been allowed for. Bondor® tests comply with details outlined in AS 4040.0, AS 4040.1, AS 4040.2, AS 4040.3, AS 1562.1 and AS/NZS 1170.1.
8. Min. roof slope of 3 degree applies.

equideck® EPS-FR Technical Data Sheet

Joint

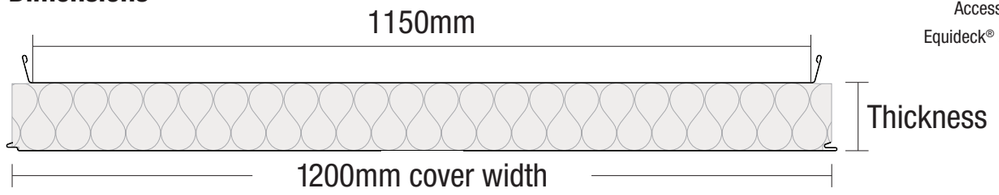


Profiles



Accessory
Equideck® Capping

Dimensions



Bondor® National Network

BRISBANE / EXPORT
103 Ingram Road
Acacia Ridge QLD 4110
T: 07 3323 8500
F: 07 3323 8501

MELBOURNE
6 Dunmore Drive
Truganina VIC 3029
T: 03 8326 8000
F: 03 8326 8099

SYDNEY
49 – 53 Newton Road
Wetherill Park NSW 2164
T: 02 9609 0888
F: 02 9729 1114

PERTH
17 Gauge Circuit
Canning Vale WA 6155
T: 08 9256 0600
F: 08 9256 0620

ADELAIDE
70 – 72 Rundle Road
Salisbury South SA 5106
T: 08 8282 5000
F: 08 8282 5099

LAUNCESTON
7 Connector Park Drive
Kings Meadows TAS 7249
T: 03 6335 8500
F: 03 6335 8544

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

BONDOR®
Leaders in Thermal & Architectural Building Solutions