

Long Spanning Structural Roof, Insulation and Ceiling.

Achieve More. With Less.



## Equideck® Information Guide

# About Equideck®

## Three into one, for a number of benefits

If ever there was a case of less is more, Equideck® is surely it. Two sheets of pre-painted COLORBOND® steel sandwich a thermally-efficient EPS core to create a composite roof, insulation and ceiling installed as one.

The result is an easily installed, fully insulated roof with a no-maintenance interior ceiling.

## Supply or supply and install

Bondor provides a single responsibility service, manufacturing the panel and reliably installing it.

## Equideck® puts a ceiling on your construction costs

With Equideck®, roofing becomes one simple operation, as roof, insulation and ceiling are all installed at once.

There is no ceiling lining required, no reflective membrane, no insulating fibre and no interior painting. All of which means considerable savings in both on-site trades and overall construction time.

## Goes to great lengths

Equideck® panels can be manufactured in lengths of up to 20 metres, limited only by design, transport available and site considerations.

Its unique structure and strength offers the added benefit of spanning long distances. Accommodating purlin spacings of as much as six metres, depending on panel thickness and wind loading. This reduces the structural support needed, while making the most of both available space and construction budgets.

The Equideck® roofing system is ideally suited to large, open facilities, and is often seen in buildings such as institutional and recreational facilities, school auditoriums, sports halls, factories, warehouses, retail centres and more.



Shaw and Smith, Balhannah, SA

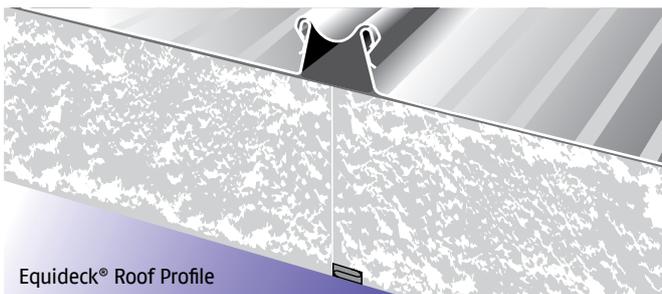


BGC, Perth, WA



Shaw and Smith, Balhannah, SA

Shaw and Smith, Balhannah, SA



Equideck® Roof Profile

## Part J – BCA

Equideck® can satisfy the insulation requirements of Part J of the Building Code of Australia.

## Controls climate, contains costs

Equideck® affords very high thermal efficiency. This results in significant savings in cooling and heating costs over the life of the building as well as adding to the comfort of those who use it. Its thermal superiority also makes it ideal for environments where temperature control is vital, such as food processing facilities and fresh produce retailers.

## Bondor Support

Excellent insulation qualities, large spans and quick installation make Equideck® the ideal cost-effective roofing solution. As further assurance of quality and commitment, Bondor also offers a comprehensive warranty and responsive support. This can extend right through to our installation service, working closely with your engineers, builders and clients, throughout the project. All this is available to you through the Bondor national network, with manufacturing facilities in every state.

## Design Versatility & Solar Ready

Provides architects with an efficient alternative when “standing seam” style roofs displaying wide flat trays are required. These wide trays also provide the perfect support for many new solar & electricity generating panels.

## Equideck® Typical Properties

Panel Thickness (mm)	50	75	100	125	150	200	250
Weight (kg/m <sup>2</sup> )	9.7	10.0	10.4	10.7	11.1	11.7	12.4
Total 'R' (m <sup>2</sup> K/W) at 23°C	1.4	2.0	2.6	3.2	3.9	5.1	6.3

## SPAN TABLE – NON-CYCLONIC REGION A & B

(Roof Applications Only)

Span (mm) for maximum uniformly distributed ULS design wind load:

Multi-span, wind pressure acting outwards							
Panel Thickness (mm)	50	75	100	125	150	200	250
1.0 kPa	4200	5160	5970	6690	7330	8200	8200
1.5 kPa	2920	4140	4780	5180	5190	5210	5250
2.0 kPa	2150	3220	3810	3820	3820	3825	3840

### Notes:

1. Pressures specified are for wind gusts only per AS1170.
2. Self weight of the panel has been allowed for, plus an allowance of up to 10kg/m<sup>2</sup> for light duty fittings (lights, etc.). No other dead loads permitted.
3. Non-trafficable maintenance access (concentrated load) of 140kg on any one panel has been allowed for (exceeding min. requirements of AS/NZS 1170.1:2002).
4. Distributed live load of 0.25kPa has been allowed for (as per AS/NZS 1170.1:2001).
5. Deflection limit of span/150 applies, and in accordance with Serviceability Limit State criteria per AS1170.0 – TABLE C1.
6. Fixing details refer Bondor.
7. Min. roof slope of 3 degree applies.
8. This span table applies to non-cyclonic regions only.
9. Extended span tables including single span and wind pressure acting inwards are also available. Refer Bondor.

## Other Composite Roofing Products available from Bondor include:



An EPS cored sandwich panel used widely in the residential, multi residential and commercial markets.



A cost effective, fire retardant commercial roof/ceiling/insulation system utilising a PIR core.



A low cost panel with a 0.42mm external COLORBOND® skin, a R1.8 rated PUR insulating core and a white vinyl underside. Purline is specified extensively for poultry and livestock buildings.

[www.bondor.com.au](http://www.bondor.com.au)

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