

Panel Specifications

Construction

These lightweight, high strength insulated panels consist of a flame retardant expanded polystyrene core sandwiched between prefinished, durable COLORSTEEL® CP or MAXX skins, this combination provides both excellent insulation and strong structural support.

Lanwood Industries unique S lock jointing system provides an aesthetically pleasing flush surface when beaded off with approved sealant. The added advantage of weather tightness and a continuous vapour barrier make it an ideal material for all manner of free standing insulated buildings.

Durability

Lanwood Industries panel has been successfully used in New Zealand for over thirty years without showing any signs of degradation. Subject to BHP NZ Steels requirements for material selection, design, installation, and maintenance, these panels meet the 50 year durability requirements of the New Zealand building code.

Standard Colour

The standard colour for Panels and Powder-coating is Titania. Alternative colours are available as per the BHP colour charts, and may be subject to alternative charges. Please enquire prior to ordering to determine availability.

Material Selection.

The standard finish is BHP NZ Steels COLORSTEEL® CP which is suitable in most inland circumstances. For more marine or industrial environments, COLORSTEEL® MAXX provides a higher level of protection against corrosion. Further information is available from the BHP NZ Steels Environmental Categories publication to assist in materials selection.

Panel Weights

| Panel thickness | Weight (kg/m ²) |
|-----------------|-----------------------------|
| 50 | 11.4 |
| 75 | 11.8 |

Spans

The following recommended maximum spans have been calculated by our engineers after the completion of a comprehensive testing program.

Allowable spans are based on the following applied load and the deflection criteria as set out in NZS 4203:1992

Load: -0.84 kPa max wind pressure – outward
0.25 kPa live load or 1kN point load

| Panel thickness | Span (m) |
|-----------------|----------|
| 50 | 3.4 |
| 75 | 4.4 |

Thermal Values R (m²°C/W)

These R values have been calculated in accordance with NZS 4214 assuming a combined indoor out door surface coefficient of 0.13 and S grade polystyrene with a thermal conductivity (K) of 0.041 w/m°C at a mean temperature of 15°C

| Panel thickness | R Value (m ² °C/W) |
|-----------------|-------------------------------|
| 50 | 1.4 |
| 75 | 2.0 |