

<b>Product</b>	InsulRoof® Insulated Roof Panel
<b>Product Description</b>	<p>InsulRoof® is a long-spanning insulated roof panel that features a corrugated roof profile and a pre-finished steel ceiling lining encased in Bondor's new proprietary dual layered insulating core technology comprising of EPS-FR and PUR.</p> <p>This all-in-one roofing solution is manufactured using Australian-made BlueScope® COLORBOND® steel for durability and is ideal for a variety of applications including housing, multi-residential, commercial and industrial roofing applications where a corrugated roof profile is desired. It is also tested for use in cyclonic regions.</p> <p>SupaCore® is a proprietary and world-first insulating core technology developed by Bondor® to deliver dual layers of high performance insulation and bonding strength.</p>
<b>Supplier</b>	BONDOR®
<b>Contact Number</b>	1300 300 099
<b>Website</b>	www.bondor.com.au

## Product Overview

<b>Core</b>	<p>EPS-FR (Expanded Polystyrene with fire retardant)</p> <p>PUR (Polyurethane Foam)</p>
<b>Width (cover mm)</b>	1000
<b>Thickness (mm)</b>	50, 75, 100, 125, 150, 200
<b>Length</b>	Up to 12m (check for availability)
<b>External Material</b>	0.42mm G550 COLORBOND® steel
<b>External Finishes</b>	Corrugated
<b>Exterior Colour Options</b>	Classic Cream™, Surfmist®, Paperbark®, Shale Grey™, Dune®, Pale Eucalypt®, Manor Red®**, Basalt®^, Woodland Grey®^**
<b>Internal Material</b>	0.6mm G300 COLORBOND® steel
<b>Internal Finishes</b>	Plain, VJ
<b>Interior Colour Options</b>	Classic Cream™, Surfmist®
<b>Pitch</b>	5 degree minimum
<b>Paint System</b>	AS/NZS 2728 & AS 1397
<b>Accreditations</b>	Codemark Certificate Number CM40235
<b>Acoustic Properties</b>	Rw 23 - 24 depending on thickness
<b>Material Group Numbers</b>	Group 1 & 2
<b>Bushfire Attack Level</b>	BAL-40 (All exposed core to be covered with flashing)

## Technical Properties

### Thermal - AS/NZS 4859.1

<b>Declared R-Value (m<sup>2</sup>K/W)</b>	50, 75, 100, 125, 150, 200mm InsulRoof® delivers Declared R-value at 23°C of 1.40, 2.00, 2.60, 3.20, 3.80, 5.05 respectively. Contact us for other temperatures and different EPS-FR core grades.
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### Acoustics - AS 1191, AS/NZS 1276 & AS/NZS ISO 717.1

<b>R<sub>w</sub> Value (dB)</b>	InsulRoof® has been tested in accordance with the requirements of AS 1191. The Weighted Sound Reduction Index (R <sub>w</sub> ) of the panel is calculated using AS/NZS 1276 and AS/NZS ISO 717.1 respectively with acoustic values of R <sub>w</sub> 23 - 24 depending on thickness. Refer to Bondor® Australia for your specific application.
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## Fire

<b>Fire Hazard Properties</b>	AS/NZS 1530.3
<b>Ignitability Index</b>	0
<b>Spread of Flame Index</b>	0
<b>Heat Evolved Index</b>	0
<b>Smoke Index</b>	1
<b>SMOGR<sub>RC</sub></b>	< 100
<b>Material Group Numbers AS 5637.1 / AS ISO 9705</b>	InsulRoof® EPS-FR steel skinned insulated building panels conform to the requirements of the BCA as either Group 2 or Group 1 depending on construction detail.
<b>Bushfire Attack Level AS 3959</b>	InsulRoof® is suitable for use as roof covering for Class 1 to 10 buildings to be constructed in designated bushfire prone areas that have a BAL-40 or less.

## Structural - AS/NZS 1170, AS 1562.1, AS4040

<b>Span Tables</b>	Bondor® provides the latest Ultimate Limit State Span Tables developed specifically for Australasian conditions, in accordance with AS/NZS 1170, AS 1562.1 & AS 4040. Refer to Span Tables for detailed design guidelines and Span Tables for both Non-Cyclonic Regions A & B and Cyclonic Regions C and D. Extended Span Tables for Residential Applications and Patio System Engineering are also available. Refer to Span Table Notes for design guidelines relating to fixing, and deflection limits. The panel design shall be specified by the certifying engineer as determined from the Span Tables.
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<b>Support Details</b>	The support spacing shall be specified by the structural engineer as determined from the Span Tables.
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## Safe Handling & Installation

<b>Panel Length</b>	Up to 12m, however site, transport and wind load restrictions can limit panel length.
<b>Storage</b>	Panels should always be kept dry and if placed on site, stored off the ground, slightly inclined, allowing adequate drainage and ventilation of the panel pack. No other materials to be stored / stacked on top of panel pack.
<b>Handling</b>	In the event of manual handling, careful consideration should be given to panel weight and appropriate PPE. Consider using mechanical aides if necessary.
<b>Safety</b>	The contractor is to determine and use safe working methods throughout the installation and construction period, which complies with OHS requirements. A safe work method template (although NOT project specific) is available from Bondor®.
<b>Supporting Frame</b>	The builder is to ensure that the substrates including slabs and kerbs; and sub frames are straight, true and fit for purpose.

<b>Fixing</b>	Fixings are to meet the requirements of BlueScope TB-16 Fasteners for Roofing and Walling Product Selection Guide. Fasteners must be manufactured from high grade carbon steel with a minimum class 4 anti-corrosion coating as per Australian Standards. Refer to Bondor® Roofing Construction Details & Span Tables Notes for design guide relating to screw fixing.
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<b>Flashing</b>	Flashings are manufactured from 0.55mm BlueScope COLORBOND® steel and installed to AS 1562.1 or as otherwise specified in the Bondor® Standard Construction Drawings.
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<b>Sealant</b>	Sealant to be neutral cure and meet recommendations for sealants as per BlueScope TB-9 Sealants for Exterior Finishes. Silicon, polyurethane, butyl mastic and acrylic based sealants may be appropriate if neutral cure and recommended by their manufacturer for use on COLORBOND® steel and for the application. Sealant to be placed between flashings/angles and panel and between panel joints as shown on the Bondor® Standard Construction Details.
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<b>Installation</b>	<p>Installation as per the Bondor® Standard Construction Details.</p> <ul style="list-style-type: none"> <li>• Panels are to be cut &amp; trimmed to ensure a flush finish.</li> <li>• Panels are to be confirmed square &amp; plumb as per project requirements.</li> <li>• Panels are to be cut with a suitable metal cutting circular type saw. Angle grinder is not recommended.</li> <li>• Appropriate lifting equipment to be used for roof panels.</li> <li>• Roof panels to be installed and fit as close and tight as possible.</li> <li>• Ensure appropriate gutter cutbacks for drainage.</li> <li>• Roof sheets endlap must be designed and installed with correct roof pitch, water run-off and use approved SecureLap End Lap roof system.</li> <li>• Fasteners are to be installed without overtightening to prevent distortion of panel surfaces. Ensure weathertight contact of washer seal with panel surface.</li> <li>• All accessories must be compatible material properties with BlueScope COLORBOND® Steel.</li> <li>• Penetrations for outlets, vents, flues etc. are to be flashed &amp; sealed with appropriate materials. Refer Flashing Details above.</li> <li>• Gaps to be filled with a suitable sealant or foam filler.</li> <li>• Refer to AS1562 &amp; SA HB 39 for roofing/cladding installation &amp; plumbing.</li> <li>• Refer to Bondor® Standard Construction Details &amp; Fixing Details above for fastener requirements.</li> <li>• Remove all swarf and any foreign matter immediately from all panel surfaces as per BlueScope TB-5 Swarf staining of steel profiles.</li> </ul>
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<b>Maintenance</b>	Refer to BlueScope TB-4 Maintenance of COLORBOND® and Zinalume® Steel and the relevant Bondor® maintenance information.
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## Warranties & Disclaimers

<b>Warranty</b>	Bondor® offer a conditional warranty for InsulRoof® in Home Improvement applications of up to 15 years and in architectural roof panel applications of up to 30 years for material and up to 20 years for exterior paint system from install date for projects on an application basis, dependent on project location, design, installation, end use, environmental conditions and maintenance of the product. Please contact Bondor® sales team with your specific project details for more information on the available conditional warranties.
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<b>Disclaimers</b>	Under certain light conditions this product may show an undulating surface which can vary depending on exterior profile and steel gauge selection as well as the environments varying light conditions.
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