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| Product | InsulWall® Structural Insulated Wall Panel |
| Product Description | InsulWall® is a lightweight and structural insulated panel made from EPS-FR that is lined with a unique BlueScope® primed steel ready for third party coating systems such as a Dulux® Wash & Wear painted interiors and Dulux® Acratex® acrylic-render coated exteriors. InsulWall® is purpose designed to suit commercial applications as well as the residential housing, modular and renovation market. InsulWall® is available in thicknesses to suit 90mm interior walls and 140mm exterior walls and is available for use with the NCC CodeMark accredited InsulLiving® building system. |
| Supplier | BONDOR® |
| Contact Number | 1300 300 099 |
| Website | www.bondor.com.au |

Product Overview

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| Core | EPS-FR (Expanded Polystyrene with fire retardant) |
| Width (cover mm) | 1200 |
| Thickness (mm) | 90, 140 |
| Length | Up to 16m (check for availability) |
| External Material | 0.6mm G300 prime coated BlueScope® steel |
| External Finishes | Plain |
| Exterior Colour Options | External coating should strictly follow Dulux® DuSpec Specification. Dulux® Acratex® Coventry Coarse. |
| Internal Material | 0.6mm G300 prime coated BlueScope® steel |
| Internal Finishes | Plain |
| Interior Colour Options | Internal coating should strictly follow Dulux® DuSpec Specification. Broad walls - Dulux® Wash & Wear 101 Adv L/G. Kitchens - Dulux® Wash & Wear Kitchen. Bathrooms - Dulux® Wash & Wear Bathroom L/G for wet areas |
| Paint System | AS/NZS 2728 & AS 1397 |
| Accreditations | Codemark Certificate Number CM40033 |
| Acoustic Properties | Rw 24 - 25 depending on thickness |
| Bushfire Attack Level | BAL-40 (All exposed core to be covered with flashing) |

Technical Properties

Thermal - AS/NZS 4859.1

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| Declared R-Value (m²K/W) | 90, 140mm InsulWall® delivers Declared R-value at 23°C of 2.15, 3.40 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

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| R_w Value (dB) | InsulWall® has been tested in accordance with the requirements of AS 1191. The Weighted Sound Reduction Index (R _w) of the panel is calculated using AS/NZS 1276 and AS/NZS ISO 717.1 respectively with acoustic values of Rw 24 - 25 depending on thickness. Refer to Bondor® Australia for your specific application. |
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Fire

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| Fire Hazard Properties | AS/NZS 1530.3 |
| Ignitability Index | 0 |
| Spread of Flame Index | 0 |
| Heat Evolved Index | 0 |
| Smoke Index | 2-3 |
| SMOGR_{RC} | < 100 |
| Bushfire Attack Level AS 3959 | InsulWall® is suitable for use as external walls of Class 1 and 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

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| Span Tables | 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. Span tables, bracing capacity, axial loads, support of cupboards and bracket loading for InsulWall can be determined using the InsulLiving technical manual. 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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| Support Details | The support spacing shall be specified by the structural engineer as determined from the Span Tables. |
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Safe Handling & Installation

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| Panel Length | Up to 16m, however site, transport and wind load restrictions can limit panel length. |
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| Storage | 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. |
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| Handling | In the event of manual handling, careful consideration should be given to panel weight and appropriate PPE. Consider using mechanical aides if necessary. |
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| Safety | 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®. |
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| Supporting Frame | The builder is to ensure that the substrates including slabs and kerbs; and sub frames are straight, smooth and fit for purpose. |
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| Fixing | 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 Span Tables Notes for design guide relating to screw fixing. |
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| Flashing | 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. Aluminium can be used if there is no Group Number requirement. |
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| Sealant | 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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| Installation | <p>Installation as per the Bondor® Standard Construction Details.</p> <ul style="list-style-type: none"> • Panels are to be cut & trimmed to ensure a flush finish. • Panels are to be confirmed square & plumb as per project requirements. • Panels are to be cut with a suitable metal cutting circular type saw. Angle grinder is not recommended. • Penetrations for outlets, vents, flues etc. are to be flashed & sealed with appropriate materials. Refer flashing details above. • Gaps to be filled with a suitable sealant or foam filler. • Refer to Bondor® Standard Construction Details & Fixing Details above for fastener requirements. • Remove all swarf and any foreign matter immediately from all panel surfaces as per BlueScope TB-5 Swarf staining of steel profiles. |
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| Maintenance | Refer to BlueScope TB-4 Maintenance of COLORBOND® and Zincolume® Steel and the relevant Bondor® maintenance information. |
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Warranties & Disclaimers

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| Warranty | Bondor® architectural walling panels offer a conditional warranty of up to 15 years 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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| Disclaimers | 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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