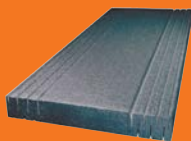


EXPOL

Underfloor Insulation

50 Year
Product
Warranty*



RIGID INSULATION BOARD THAT WON'T SAG OVER TIME

*50 year product warranty details located at <https://expolinsulation.com.au/technical-information/>

The Ultimate Insulation Choice



Elevate your underfloor insulation game with the all-new Expol Black R1.8.. This new addition to the Expol range takes efficiency to the next level. Infused with advanced graphite technology, it boasts an impressive 30% increase in thermal efficiency compared to Expol White R1.4, ensuring optimal temperature control and energy savings. But that's not all – we're serious about our planet too. With up to 25% recycled content and fully recyclable offcuts, choosing Expol Black R1.8 means choosing sustainability.

Specifically designed for regions enduring extreme climates, Expol Black R1.8 is the ideal choice for ultimate underfloor comfort and environmental responsibility.

Why EXPOL is the smart choice in underfloor insulation:

- Save on power bills
- Lightweight and easy to DIY install
- 410mm joist width with concertina sides for a snug fit
- Manufactured with a fire retardant
- Non-allergenic & non-irritating
- Will not sag over time
- Insulation performance not affected by ageing or moisture
- 30% more thermally efficient for regions with extreme temperatures
- Exceeds the minimum R-Value for timber floors
- 50 year EXPOL Product Warranty
- Product and bag are fully recyclable where facilities exist



UNDERFLOOR INSULATION FOR NEW AND EXISTING TIMBER FLOORS

EXPOL R1.8
ONLY AVAILABLE
IN VIC & SA



R-Value
1.8

EXPOL R1.8 UnderFloor Insulation

A rigid black panel infused with graphite making it up to 30% more efficient than other polystyrene panels. EXPOL R1.8 is ideal for areas that experience extreme climates. Manufactured in the standard width of 410mm. Backed by a 50-year product warranty giving you the satisfaction of knowing that you will have a warmer, drier, healthier home all year round.



DO NOT STORE IN DIRECT SUNLIGHT! Product could be damaged, and warranty will be void.

EXISTING FLOORS

EXPOL L Brackets for R1.4 & R1.8 are designed to fit under the panel (supplied with stainless steel nails).



Depending on the joist depth you could also use **EXPOL Z Clips**.



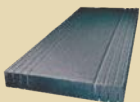

NEW FLOORS

EXPOL 60mm Joist Saddles for R1.4 & R1.8 (standard length) are designed to slip over the joist to support and secure the 60mm panel.




Z Clips
available
mid-2024

PRODUCT SIZES

Dimensions (mm)		Thickness	Length	Width	p/bag	m ² coverage
EXPOL R 1.8 Black Underfloor Insulation	 	60	1200	410	11	5.41

How many packs with you need?



Scan QR code for pack calculator

Area to be insulated Based on perimeter		Number of Packs Required
m2	feet2	410mm
10	108	2
20	215	4
30	323	6
40	431	8
50	538	10
60	646	12
70	753	13
80	861	15
90	969	17
100	1076	19
110	1184	21
120	1292	23

ACCESSORIES



WIREGUARD

To separate electrical cables from EXPOL Underfloor Insulation, use EXPOL Wireguard, a waxed paper strip that is wrapped around PVC cables before installation. EXPOL Wireguard can be purchased in 20m rolls from your local stockist.



FIXINGS

Choose from two fixing options: non-corrosive, nylon fixings supplied with a stainless steel nail so you can simply nail two fixings per panel at opposite corners, or our newer Joist Saddle, designed to save you time and speed up the install process by slipping over your joist from above. Both fixings available from your local stockist in packs of 50s.



TECHNICAL SPECIFICATIONS

Property	Unit	EXPOL R1.8 UnderFloor Insulation	Test Reference
Material		Expanded Polystyrene with Graphite	
Nominal Density	kg/m ³	19	
Thickness / Nominal Product R-Value	m ² K/W 60mm 120mm (Double Layer)	R 1.80 R 3.60	ASTM C518-04
Nominal Compressive strength at 10% deformation (min)	KPA	105	AS 2498.3
Cross breaking strength	KPA	200	AS 2498.4
Determination of flame propagation surface ignition			AS2122.1-1993
Medium flame duration (max)	sec	2	
Eighth value	sec	3	
Fire behaviour - Spread of Flame Index - Smoke Developed Index	(0-10) (0-10)	0 5	AS/NZS 1530.3:1999
Dimensional stability of length, width & thickness (max) at 70 deg C for 7 days	%	1	AS2498.6
Recycled content	%	25	
Rate of water vapour transmission (max) measured parallel to rise at 23°C	mg/m ² s	520	AS 2498.5

COMPLIANCE AND SUSTAINABILITY

EXPOL Underfloor Insulation complies with the Australian Standard AS/NZS 4859.1.2002. Panels are fully recyclable when returned to a StyroCycle drop off site. Please visit StyroCycle for drop off locations.

STYROCICLE
POLYSTYRENE RECYCLING





Installation Instructions

Whether you are choosing to go it alone or have it professionally installed, you will not go past EXPOL Underfloor Insulation. To assist you, we've developed an easy step guide – follow it and you can't go wrong.



Scan QR code to view instructions on how to install Expol Insulation

Step 1



Measure your joist using the EXPOL Easy Measure Ruler (available from your nearest stockist). The width should fall within one of our 4 panel sizes. Joist sizes can vary, so be sure to measure more than one. You may need a few different panel sizes to complete the job.

Step 2



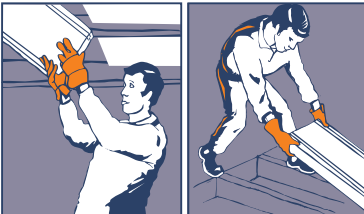
If the panel is too wide, slice down the appropriate concertina edge, leaving the panel approximately 5mm oversize to ensure a firm fit.

Step 3



Place EXPOL Wireguard around any cables that come in direct contact with EXPOL. Do not use a staple gun to fix the Wireguard. Always exercise caution when working around electrical wiring.

Step 4



EXISTING FLOOR NEW FLOOR

Slide the panel between the joists. The concertina cut is designed to ensure a tight fit. The panel should be pushed hard against the bottom of your floor to ensure no air gaps. A minimum gap of 150mm must be left around metal heating flumes, OA rated recessed downlights and ceiling exhaust fans. A 50mm gap is required around brick/concrete chimneys.

Step 5



Once the panel is installed, tack two EXPOL fixings in opposite corners to ensure the EXPOL panel stays in place, for the lifetime of your home.

Step 6



For obstacles such as pipes and plumbing, use a sharp knife to cut the panel and notch around difficult areas. For future maintenance, leave a 100mm clearance around pipes and plumbing.

EXPOL Black R1.8 Underfloor Insulation and Accessories are available for purchase at www.expolinsulation.com.au, or can be special ordered through your local hardware store.

Other Expol Underfloor products can be located at leading hardware stores. Please visit the website for our stockists.

PHONE : 1300 AU FOAM