# EXPOL
Underfloor Insulation

**50 YEAR**
**Product Warranty***

## RIGID INSULATION BOARD THAT WON'T SAG OVER TIME

**50 year product warranty details located at www.expolinsulation.com.au*

# The Ultimate Insulation Choice

Elevate your underfloor insulation game with Expol Black R1.8. This newest 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.

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 NSW, 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.

**IMPORTANT:**

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

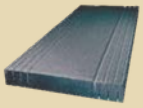
## EXISTING FLOORS

Tool-free, push-fit brackets that secure Expol panels without nails or extra fasteners. Z Clips squeeze between the panel and joist for a firm hold and are suitable for existing floors.

## NEW FLOORS

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

# PRODUCT SIZES

| Dimensions (mm) | | Thickness | Length | Width | p/bag | m2 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 |
|---|---|---|
| $m^2$ | $feet^2$ | 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 |

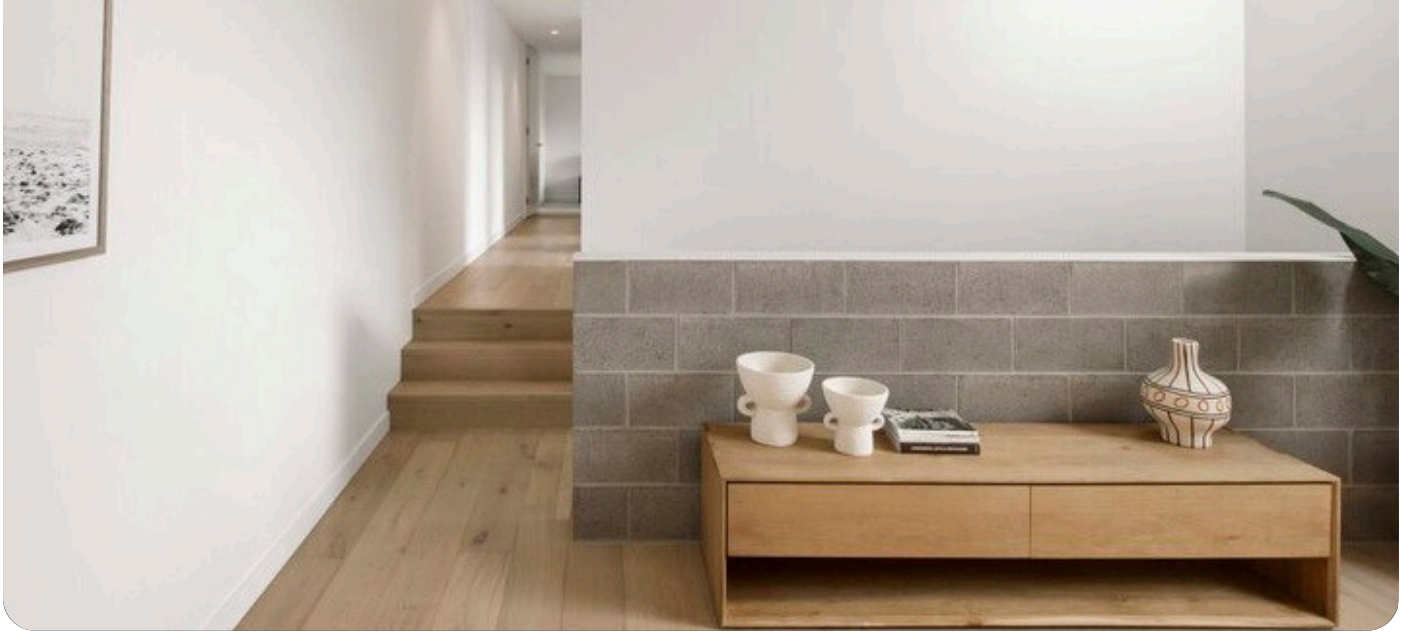
# ACCESSORIES

## WIREGUARD

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

## FIXINGS

Choose from two fixing options depending on your floor application - **Z Clips for Existing Floors and Joist Saddles for New Floor Builds**. Simply place two fixings per panel at opposite corners, to secure boards in place. Both fixings available in packs of 50s.



# TECHNICAL SPECIFICATIONS

| Property | Unit | EXPOL R1.8 UnderFloor Insulation | Test Reference |
|---|---|---|---|
| Material | | Expanded Polystyrene with Graphite | |
| Nominal Density | kg/m3 | 19 | |
| Thickness / Nominal Product R-Value | m2K/W<br>60mm<br>120mm (Double Layer) | R 1.80<br>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<br>Medium flame duration (max)<br>Eighth value | <br>sec<br>sec | <br>2<br>3 | AS2122.1-1993 |
| Fire behaviour - Spread of Flame Index<br>- Smoke Developed Index | (0-10)<br>(0-10) | 0<br>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/m2s | 520 | AS 2498.5 |

*Expol products may include recycled content when available, at certain manufacturing locations.

## COMPLIANCE AND SUSTAINABILITY

EXPOL Underfloor Insulation complies with the Australian Standard AS/NZS 4859.1.2002. Clean Expol panels are fully recyclable when returned to a Foamex location.

6
PS

EXPOL
Underfloor Insulation

50-YEAR WARRANTY | AUSTRALIAN MADE SINCE 1984

UNDERFLOOR INSULATION DIY STEP GUIDE

# TIMBER UNDERFLOOR INSULATION. EASY STEP GUIDE.

Rigid EPS board that sits between your floor joists and stays put.
No tradie, no quote, no install fees. Follow the steps and you will not go wrong.

**CLEARANCES** Keep 200 mm around metal heating flues, recessed downlights and exhaust fans. Keep 50 mm around brick and concrete chimneys.

## THE INSTALL STEPS

STEP 1 • MEASURE

### MEASURE THE JOISTS

Measure the gap between your joists. They vary, so measure a few.

STEP 2 • TRIM

### TRIM THE EDGE

If required, slice down the concertina edge, leaving about 5 mm for a perfect fit.

STEP 3 • EXISTING FLOORS

### SLIDE IT IN

Push the panel up between the joists, hard to the floor, no air gap.

STEP 4 • EXISTING FLOORS

### FIT THE Z CLIPS

Existing floors: push-fit two Z Clips into opposite corners, 200 mm in.

STEP 5 • NEW FLOORS

### LAY THE PANELS

New floors: lay each panel in from the top, flush on the saddles.

STEP 6 • NEW FLOORS

### FIX THE SADDLES

New floors: fix two EXPOL Joist Saddles into opposite corners first.

STEP 7 • LAY PANELS

### WORK AROUND CABLES

Sleeve cables in EXPOL Wireguard first. Never use a staple gun.

STEP 8 • LAY PANELS

### WORK AROUND PIPES

Notch around pipes with a sharp knife. Leave 100 mm clearance.

**DO IT ONCE. DO IT RIGHT.**

Australian made by The Foamex Group since 1984 • 50-year warranty

expolinsulation.com.au