Guaranteed Performance

Premium UnderFloor Insulation & Garage Door Insulation

SOLID UNDERFLOOR INSULATION AND GARAGE DOOR INSULATION PANEL SOLUTIONS
EXPOL have two grades of underfloor insulation for timber floors: EXPOL R1.4 White UnderFloor Insulation to keep your home warm, and EXPOL R1.8 Black UnderFloor Insulation for those who want a higher level of insulation for houses in extreme conditions.

EXPOL UnderFloor Insulation has been designed to insulate your home by fitting snugly between the timber floor joists. When you choose EXPOL you are making the ‘ultimate insulation choice’ for your new or existing home.

EXPOL R1.4 and R1.8 panels are made of rigid polystyrene 1.2 metres long and 60mm in thickness. They are manufactured in four standard widths - 360, 410, 470 and 560 (mm) - to fit between most standard joists.

**EXPOL R1.4 White UnderFloor Insulation**

EXPOL R1.4 White UnderFloor Insulation is the ideal solution for normal New Zealand suburban environments or rural areas which do not have extreme temperatures.

BRANZ-appraised with a 50-year product warranty gives you the satisfaction of knowing that you will have a warmer, drier, healthier home in winter.

EXPOL R1.4 White has 25% recycled content and is manufactured with consideration for the environment.

**System Components**

**WIRE GUARD**

EXPOL Wireguard is a waxed paper strip used to separate exposed electrical cables from EXPOL insulation. EPS in some cases reacts with the plasticiser and degrades the elastic properties of some electrical cables over a prolonged period.

**FIXINGS**

There are 2 types of fixings specific to Existing Floors and New Floors. They are made from non-corrosive nylon and are used to fix the EXPOL panels in place.

- **Existing Floors**: EXPOL L Brackets are designed to fit under the panel (supplied with stainless steel nails) – see Step 3 on the opposite page.
- **New Floors**: EXPOL Joist Saddles are designed to slip over the joist to support and secure the panel – see Step 3 on the opposite page.

**EXPOL SILICONE ADHESIVE**

EXPOL supplies a waterbased glue designed to adhere polystyrene to most surfaces. UnderFloor panels can be glued in place using this adhesive as an alternative or in combination with the nylon fixings.
For a warmer, drier, healthier home.

EXPOL panels are concertina-cut on both sides to allow for a compression of up to 20mm for ease of installation, and to ensure a snug fit between the joists.

EXPOL UnderFloor is ideal for both retro-fitting under existing floors and new floor installations.

EXPOL R1.4 is backed by a BRANZ-appraised 50-year limited product warranty.

To ensure you select the right product designed to withstand the external conditions found under your timber floor, choose EXPOL.

EXPOL is 100% New Zealand owned and operated and available nationwide through major hardware stores. EXPOL recycles all offcut material and operate recycling facilities in every factory.

EXPOL R1.8 Black UnderFloor Insulation

EXPOL R1.8 Black UnderFloor Insulation is infused with graphite making it up to 30% more efficient than other polystyrene panels. With an R1.8 R Value it is ideal for extremely cold temperatures and windy environments.

EXPOL Black R1.8 will ensure your family is protected from the extreme temperatures under your floor, for life.

Easy Step Guide

Looks like you are about to take the next step to creating a healthier home environment. That’s great news for you and your family.

Whether you are choosing to have EXPOL professionally installed or going it alone, 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.

Don’t forget to pick up your EXPOL UnderFloor Easy Measure Ruler, which is also available online at www.expol.co.nz. Use it to measure the underfloor joist sizes, so you can purchase the correct panels for your DIY Insulation project.

For more detailed project information refer to www.expol.co.nz

Step 1

Measure
Place your Easy Measure Ruler against one side of the joist. The opposite joint will 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

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

Step 3

Existing Floor
Slide the panel between the joists. The concertina designed cuts will ensure a tight fit.

The panel should be pushed up hard against the bottom of your floor leaving no air gap.

A minimum gap of 150mm must be left around metal heating flues, OA rated recessed down lights and ceiling exhaust fans, and a 50mm gap is required around brick / concrete chimneys.
EXPOL is ideal for retro-fitting under existing timber floors or new timber floors.

**NEW FLOORS**
- Ideal when building new homes
- Easy to install
- Saves time by installing the insulation before you put the floor down
- Creates a moisture barrier
- Exceeds the minimum R Value for timber floors

**EXISTING FLOORS**
- Great for polished floor areas in bungalows & villas
- Easy to install
- Eliminates draughty gaps
- Creates a moisture barrier
- Exceeds the minimum R Value for timber floors

### Conveniently available in 4 stud width sizes:

<table>
<thead>
<tr>
<th>EXPOL R1.4 White UnderFloor Insulation</th>
<th>EXPOL R1.8 Black UnderFloor Insulation</th>
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<tbody>
<tr>
<td>360 1200 x 360 x 60mm 12 per bag Covers 5.18m²</td>
<td>360 1200 x 360 x 60mm 12 per bag Covers 5.18m²</td>
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<tr>
<td>410 1200 x 410 x 60mm 11 per bag Covers 5.41m²</td>
<td>410 1200 x 410 x 60mm 11 per bag Covers 5.41m²</td>
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<tr>
<td>470 1200 x 470 x 60mm 10 per bag Covers 5.64m²</td>
<td>470 1200 x 470 x 60mm 10 per bag Covers 5.64m²</td>
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<tr>
<td>560 1200 x 560 x 60mm 9 per bag Covers 6.05m²</td>
<td>560 1200 x 560 x 60mm 9 per bag Covers 6.05m²</td>
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### How many packs will you need?

<table>
<thead>
<tr>
<th>Area to be insulated Based on perimeter</th>
<th>Number of Packs Required</th>
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<tbody>
<tr>
<td>m² feet² 360mm 410mm 470mm 560mm</td>
<td></td>
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<tr>
<td>10 108 2 2 2 2</td>
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<tr>
<td>20 215 4 4 4 4</td>
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<td>30 323 6 6 6 5</td>
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<tr>
<td>120 1292 24 23 22 20</td>
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### Home Owners
EXPOL is an easy DIY project. Simply call into your local hardware store and talk to the EXPOL expert.

### Specifiers, Architects and Planners
For all specifying information, relevant product testing and other detailed information please refer to:

- [www.expol.co.nz](http://www.expol.co.nz)
- [masterSpec](http://masterSpec.co.nz)
- [miproducts](http://miproducts.co.nz)

### Details
- [masterSpec](http://masterSpec.co.nz)
- [miproducts](http://miproducts.co.nz)

### Step 4
**New Floors**
- For floors before floorboards or flooring sheets are installed.
- The concertina designed cuts will ensure a tight fit.
- Simply place the panel on top of the EXPOL Joist Saddles. The panel should sit flush with the top of the joist to ensure there is no air gap.
- A minimum gap of 150mm must be left around metal heating flues, OA rated recessed down lights and ceiling exhaust fans, and a 50mm gap is required around brick / concrete chimneys.

### Step 5
**Electrical**
- For cables that come into DIRECT contact with EXPOL Underfloor, place EXPOL Wireguard around the wires before installation.
- Do not use a staple gun to fix the Wireguard. Always exercise caution working around electrical wiring.

### Pipes & Plumbing
- For obstacles such as pipes and plumbing, use your sharp knife to cut the panel and notch around the difficult areas.
- For future maintenance, leave 100mm clearance around pipes and plumbing.

### Step 4
**Existing Floor Fixings**
- Two EXPOL L Brackets are required to be fixed in opposite corners under the panel.
- Use the stainless steel nails supplied. This will ensure the EXPOL panel will stay in place.

### Step 5
**New Floor Fixings**
- Two EXPOL Joist Saddles are required to be fixed in opposite corners. Simply slide the saddles over the joist, nail the saddle into the top of joist if required and place the panel in before the floor is put down. This will ensure the EXPOL panel will stay in place.
How to measure your garage door

OPTION 1 : 28mm panel embossed

Embossed panel design doors have a smaller depth for the product to sit, you will need to allow for it. This can be done by placing a ruler vertically against the protruding design and measure as shown in the photo (right); it should suit the 28mm product.

OPTION 2 : 35mm panel flat

Flat panel design doors generally have a deeper depth, measure this from the back of the panel to the front of the profile. This should suit the 35mm product.

Kit Includes:
- 8 x Insulation Panels
- 8 x Plastic Door Liners
- 1 x Tube of Glue
- Instruction Sheet

Buying Tips:
- Specifically for Sectional Garage Doors
- Kit insulates 1 Single Garage Door / 5.76m²
- Double doors require 2 kits
- Panel and liner size 1200mm x 600mm

For more information visit our product website
www.garagedoorinsulation.co.nz
or www.expol.co.nz