



# 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.

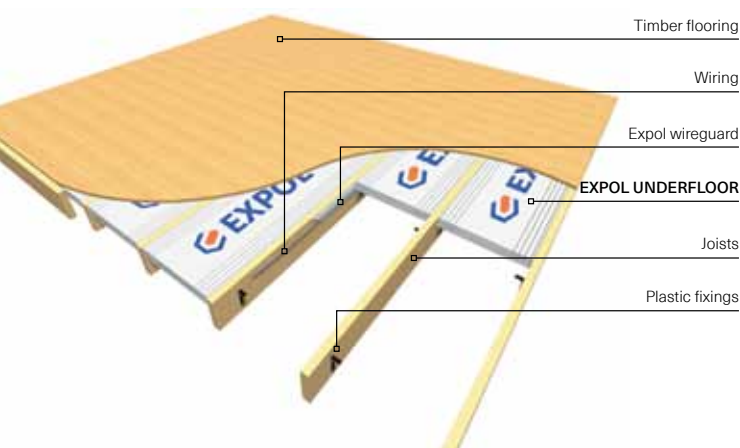


### EXPOL R1.4 White UnderFloor Insulation for warmer, drier, healthier homes.

- Saves on power bills
- Easy to install
- 4 convenient stud widths - 560, 470, 410, 360 (mm)
- Manufactured with a fire retardant
- Non-allergenic & non-irritating
- Will not sag over time and is not affected by aging or moisture
- BRANZ-appraised 50-year limited product warranty



**R1.4**  
WHITE



## 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.

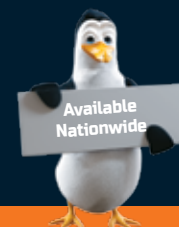


### EXPOL SILICONE ADHESIVE

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

**R1.8  
BLACK**

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.



### EXPOL R1.8 Black UnderFloor Insulation for extreme environments.

- Easy to install, and ideal for extremely cold or windy underfloor environments
- 30% more efficient than R1.4 for homes in extreme environments
- Saves on power bills
- 4 convenient stud widths - 560, 470, 410, 360 (mm)
- Manufactured with a fire retardant Non-allergenic & non-irritating
- Will not sag over time and is not affected by aging or moisture.



### 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](http://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](http://www.expol.co.nz)



#### Step 1



##### Measure

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

### EXPOL R1.4 White UnderFloor Insulation

<b>360</b>	1200 x 360 x 60mm	12 per bag	Covers 5.18m <sup>2</sup>
<b>410</b>	1200 x 410 x 60mm	11 per bag	Covers 5.41m <sup>2</sup>
<b>470</b>	1200 x 470 x 60mm	10 per bag	Covers 5.64m <sup>2</sup>
<b>560</b>	1200 x 560 x 60mm	9 per bag	Covers 6.05m <sup>2</sup>

### EXPOL R1.8 Black UnderFloor Insulation

<b>360</b>	1200 x 360 x 60mm	12 per bag	Covers 5.18m <sup>2</sup>
<b>410</b>	1200 x 410 x 60mm	11 per bag	Covers 5.41m <sup>2</sup>
<b>470</b>	1200 x 470 x 60mm	10 per bag	Covers 5.64m <sup>2</sup>
<b>560</b>	1200 x 560 x 60mm	9 per bag	Covers 6.05m <sup>2</sup>

## How many packs will you need?

Area to be insulated Based on perimeter		Number of Packs Required			
m <sup>2</sup>	feet <sup>2</sup>	360mm	410mm	470mm	560mm
10	108	2	2	2	2
20	215	4	4	4	4
30	323	6	6	6	5
40	431	8	8	8	7
50	538	10	10	9	9
60	646	12	12	11	10
70	753	14	13	13	12
80	861	16	15	15	14
90	969	18	17	16	15
100	1076	20	19	18	17
110	1184	22	21	20	19
120	1292	24	23	22	20

## 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**

Details [www.masterspec.co.nz](http://www.masterspec.co.nz)

**miproducts**

Details [www.miproducts.co.nz](http://www.miproducts.co.nz)



### 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.



### 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.



### 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.

## Step 4



### 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.

## Step 5



### 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.



# EXPOL Garage Door Insulation DIY Kit



**GARAGE  
DOOR**  
insulation  
**DIY kit**



## Is your garage door left out in the cold?

With today's concerns about rising energy costs, every household is looking at ways to stay warm while saving money. EXPOL is proud to release its Garage Door Insulation product to New Zealand. An innovative, DIY product that will improve the insulation value of your garage.

Once installed, you will benefit from a warmer, dryer and quieter garage space while improving the appearance of your garage door. This product is so easy to install and you will be amazed at the results.

- Warm in winter / cool in summer
- Creates a warmer, more usable garage space over winter
- Reduces noise
- Enhances the appearance of your garage door
- Easy to clean surfaces
- Adds value to your home

## It's as easy as 1,2,3



## 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.

#### EMBOSSSED DESIGN



### 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.

#### FLAT DESIGN



#### 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 / 5.76m<sup>2</sup>
- Double doors require 2 kits
- Panel and liner size 1200mm x 600mm

For more information visit  
our product website  
[www.garagedoorinsulation.co.nz](http://www.garagedoorinsulation.co.nz)  
or [www.expol.co.nz](http://www.expol.co.nz)



## SOLID UNDERFLOOR INSULATION AND GARAGE DOOR INSULATION PANEL SOLUTIONS



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