



THE ROOF - TOP PRIORITY

Installing insulation into your roof cavity will be one of the most cost effective and energy saving measures you make. This simple and easy to use guide will help you install your insulation correctly, getting the most out of your investment.



What Pink® Batts® insulation product should I install?

Insulation products come in different levels, and these levels are referred to as R-values. R-values are a measure of how effective the insulation is at stopping heat from escaping your home. The higher the R-value the more effective the insulation is at reducing heat loss.

The level you need to install will depend on the following:

- **Where you live** – use the map opposite to work out whether you live in the red or blue zone
- **How much insulation you already have in your ceiling** – use a ruler or our handy 'Pink® Batts® ceiling insulation level selector' at the back of this brochure to work out which level of insulation you need

CLIMATE ZONE MAP

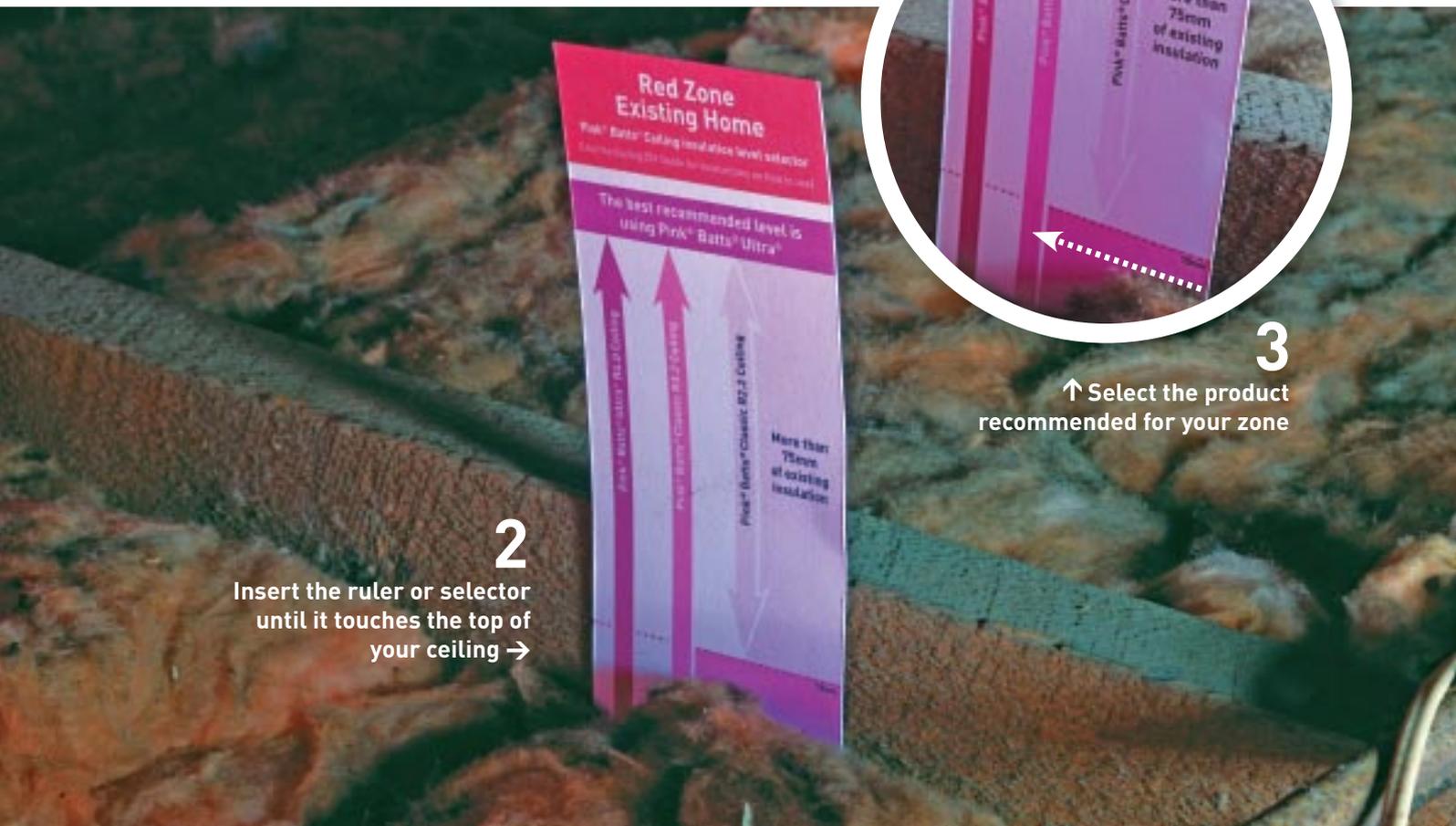


If you are using an actual ruler to measure the height of your existing insulation, use the table below to select the right insulation product...

CURRENT INSULATION LEVEL	USE IF YOU LIVE IN THE RED ZONE	USE IF YOU LIVE IN THE BLUE ZONE
None	Pink® Batts® Ultra® R4.0 Ceiling	Pink® Batts® Ultra® R5.0 Ceiling
75mm or Less	Pink® Batts® Classic R3.2 Ceiling	Pink® Batts® Classic R3.6 Ceiling
Over 75mm	Pink® Batts® Classic R2.2 Ceiling	Pink® Batts® Classic R2.6 Ceiling

How to use the 'Pink® Batts® ceiling insulation level selector'

1. Remove the 'selector' from the back page
2. Insert the 'selector' between the joist and the existing insulation until it touches the ceiling, make sure you are using the correct side (red zone or blue zone)
3. Read across to find the recommended product for your zone – if in doubt about the existing level, or if the levels differ across the ceiling, use the higher R-value to ensure you get the best performance



2
Insert the ruler or selector until it touches the top of your ceiling →

3
↑ Select the product recommended for your zone



How much do I need?

This depends on the size of your house so you will need to work out the roof area (in most homes this is often similar to the floor area). If you don't know your roof area, you can easily measure the area of each room in metres or the outside of your home (area = length x width).

Packs required table

R-VALUE	RED ZONE			BLUE ZONE		
	R2.2	R3.2	R4.0	R2.6	R3.6	R5.0
COVERAGE PER PACK	13.3	8.8	6.6	11.1	7.7	4.4
ROOF AREA						
5	1	1	1	1	1	2
10	1	2	2	1	2	3
20	2	3	4	2	3	5
40	4	5	7	4	6	10
60	5	7	10	6	8	14
80	7	10	13	8	11	19
100	8	12	16	10	13	23
125	10	15	19	12	17	29
150	12	18	23	14	20	35

Read down the first column to find the m² that is the closest match to your roof area. Where the chart does not list your exact m², use a combination of m² sizing e.g. 140m² = 100m² + 40m² or 150m² - 10m². Read across to match the R-value required and there you have the approximate number of packs required.

Eg: I'm installing Pink® Batts® R3.6 Ceiling into my house

Floor Area = 120m²
 100m² = 13 packs
 20 m² = 3 packs

Add them together and you get 16 packs. Alternatively divide your roof area by the 'coverage per pack' number in the table above to find out how many packs of Pink® Batts® insulation you will need.

eg. $120 \div 7.7 = 15.6$

This rounds up to approximately 16 packs of Pink® Batts® R3.6 Ceiling insulation. If in doubt you can always call into your local hardware store and they will be able to help you figure out how much you need.



What other equipment do I need?

The tools required to install insulation are simple and inexpensive.

Personal protective equipment

Old roof cavities are dusty places at the best of times, so to make installing insulation comfortable and safe we recommend the following equipment.

- Protective loose fitting, long sleeve clothing – overalls are good.
- Dust mask
- Safety glasses
- Rubber faced gloves (gardening/dishwashing gloves)
- Rubber soled footwear



Access equipment

- Step ladder
- At least 2 wooden planks around 1.2m long
- Lamp and extension cord (15m long)



Installation equipment

- Knife (Kraft/Stanley Knife)
- Cutting board and straight edge
- Install rod (25mm diameter, 1m long) for tight spaces – a broom stick handle would work well



Find out more about getting your own **FREE DIY pack** online
at www.pinkbatts.co.nz/DIYpack (Terms and conditions apply)



Safety

Installing insulation in your roof cavity is a relatively safe activity. However you can make it even safer by checking for the following hazards and making any repairs before you begin.

- Ensure there is adequate lighting to identify any hazards
- Treat all electrical cables as live
- Repair damaged, exposed or hanging cables immediately
- Be careful not to cut or expose cables and wires
- Beware of other sharp objects (protruding nails, splinters etc.), pests (bees and wasps), loose boards and pipe work
- In summer avoid installing during the warmest part of the day. The roof cavity temperature can increase to uncomfortable levels, always take breaks and stay hydrated

If you are unsure how to isolate any hazards seek professional advice or have a professional installer carry out the work on your behalf.

TIP

It is best to get someone to help you, or at least let others know you will be working in your roof cavity.



Installation

Now that you have all your equipment and have checked for any hazards, read through all the instructions before you start installing. The 3 easy steps will have you on your way to a warmer, healthier and more energy efficient home.

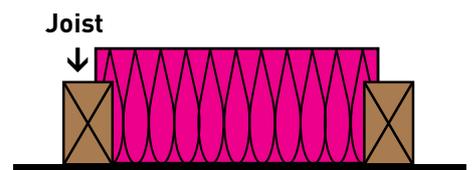
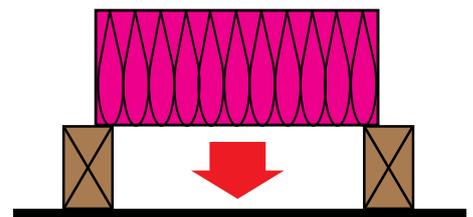
1. Set up

- Lay the planks carefully to span between the joists to create a nice sturdy walkway and platform to work from (this will help prevent any 'foot through the ceiling' incidents). See picture opposite
- If you have any existing insulation make sure it is level. You can install your new Pink® Batts® insulation over the top of it
- Start in the section of the roof cavity furthest away from the roof access hole
- Take the packs up into the ceiling (if possible) and cut along the length of the pack to open, otherwise open and have someone hand each piece to you through the access hole
- Make sure you allow plenty of room for the insulation to expand to its uncompressed size (you will be surprised at how much they expand!)



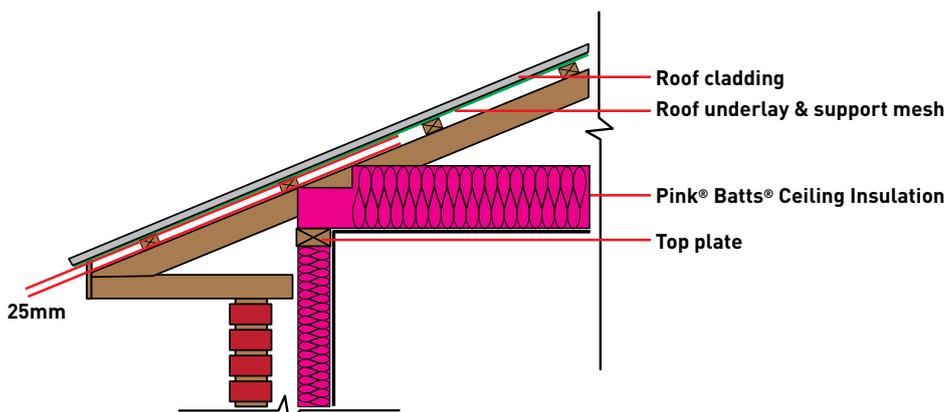
2. Fit

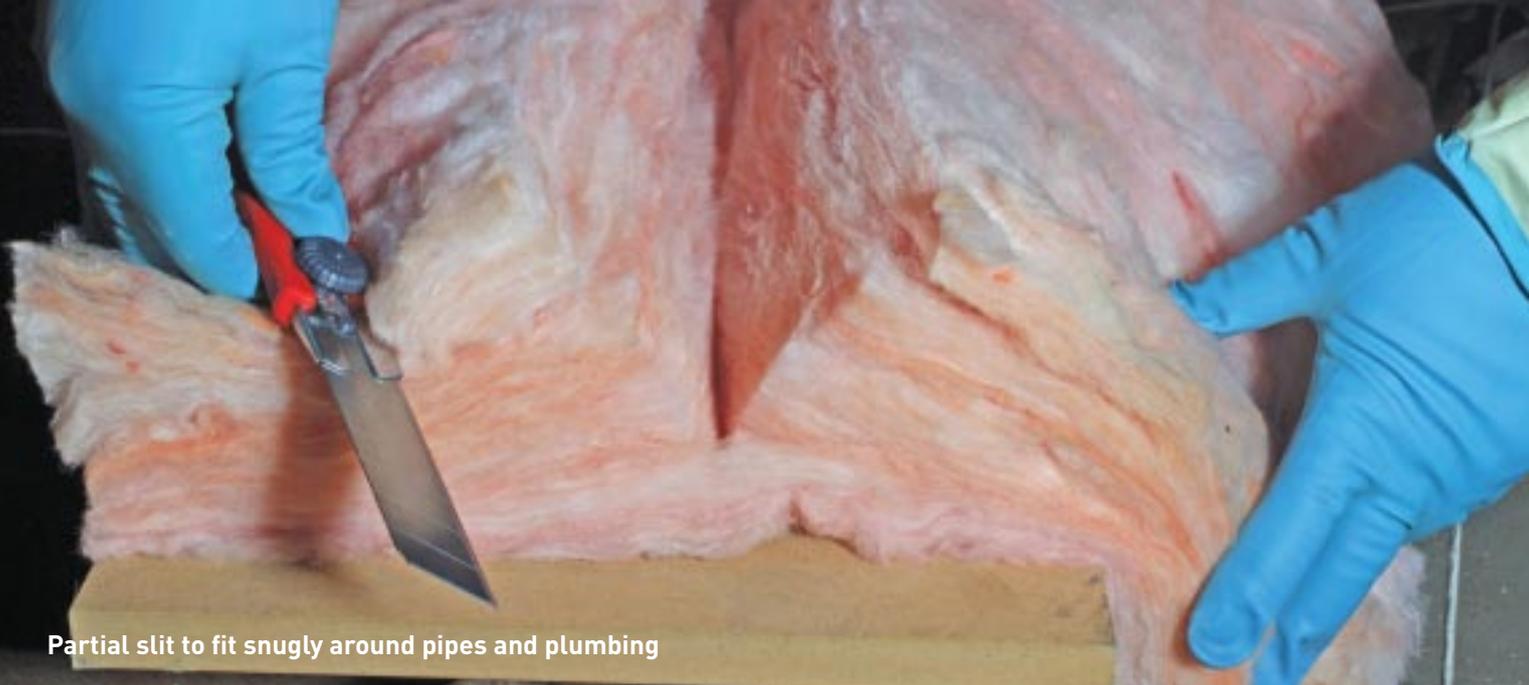
- Fit each piece between the joists, the pieces will be slightly over size to ensure a snug friction fit (see diagrams opposite). In most homes this will require two pieces fitted snugly side by side
- Make sure the insulation is not squashed or flattened and it has no gaps or folds
- In some cases you will need to cut the pieces to fit into smaller spaces. Use the straight edge, knife and cutting board. Cut the piece about 10-20mm over size to ensure a good friction fit. Never cut on the joist always use a cutting board to prevent cutting wires etc.
- Install the insulation completely over the top plate (this is the piece of timber that makes up the top of your exterior wall), use the install rod to push the insulation into the tight spots you can't get to
- Ensure a 25mm clearance is maintained between the roof/roof paper and the top of the insulation (see diagram below). You may need to cut away a small section of the insulation to achieve this.



Insulation friction fitted between joists

What is a friction fit? Insulation that is friction fitted is held in place by the friction between the insulation and the timber framing (joist).





Partial slit to fit snugly around pipes and plumbing

3. Installing around stuff - wiring, plumbing and lights

- **Clearances:** There will be some areas in the roof that will need a clear space between them and the insulation. To get the safest and best performance, make sure you follow the clearances in the table over the page.

Never cover a downlight

- **Recessed downlights:** these often require a hole cut to fit the insulation around them. Older recessed downlights will need a clearance. (If you are worried about heat that will escape through the clearance hole you can also replace your downlights to newer and safer CA Rated recessed lights that don't require any clearance.) See Clearance table over the page for actual measurements. Pink® Batts® insulation itself is non-combustible so the risk of fire associated with contacting downlights is much lower than other forms of insulation
- **Plumbing:** slit the insulation along the face to fit snugly around pipes and plumbing (see pictures above and opposite)
- **Wiring:** it is best to sit wiring over the top of insulation. In homes with old wiring (pre 1989) the wiring shouldn't be covered at all, as it can overheat and fail



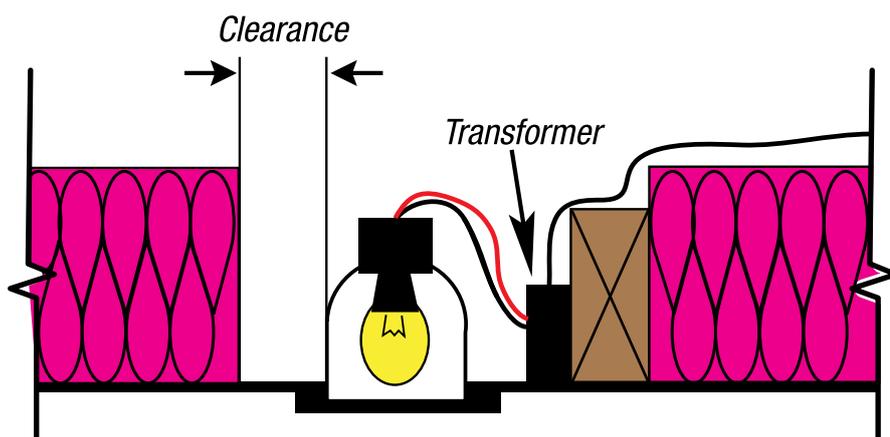
TIP

To create the perfect hole for a CA rated downlight use the sharp edges of a clean tin can that the downlight will fit into. Press and screw down over your cutting board.



Clearance table

AREA	MINIMUM CLEARANCE	COMMENTS
Incandescent light	50mm	
CA rated light	Nil	Do not install over the top
Unknown lights	200mm	From outer edge of downlight to ALL other insulation including existing insulation (transformers can sit in the clearance zone but MUST NOT be covered)
Extractor fans	200mm	From outer edge of extractor fan to ALL other insulation including existing insulation
Chimneys	50mm	From outer edge of chimney to ALL other insulation including existing insulation
Roofing material	25mm	To the roofing material ie. to the roof itself and building paper



TIP

To keep a record of what you have installed, staple a product label near the access hole – away from any hot items such as downlights or water cylinders.

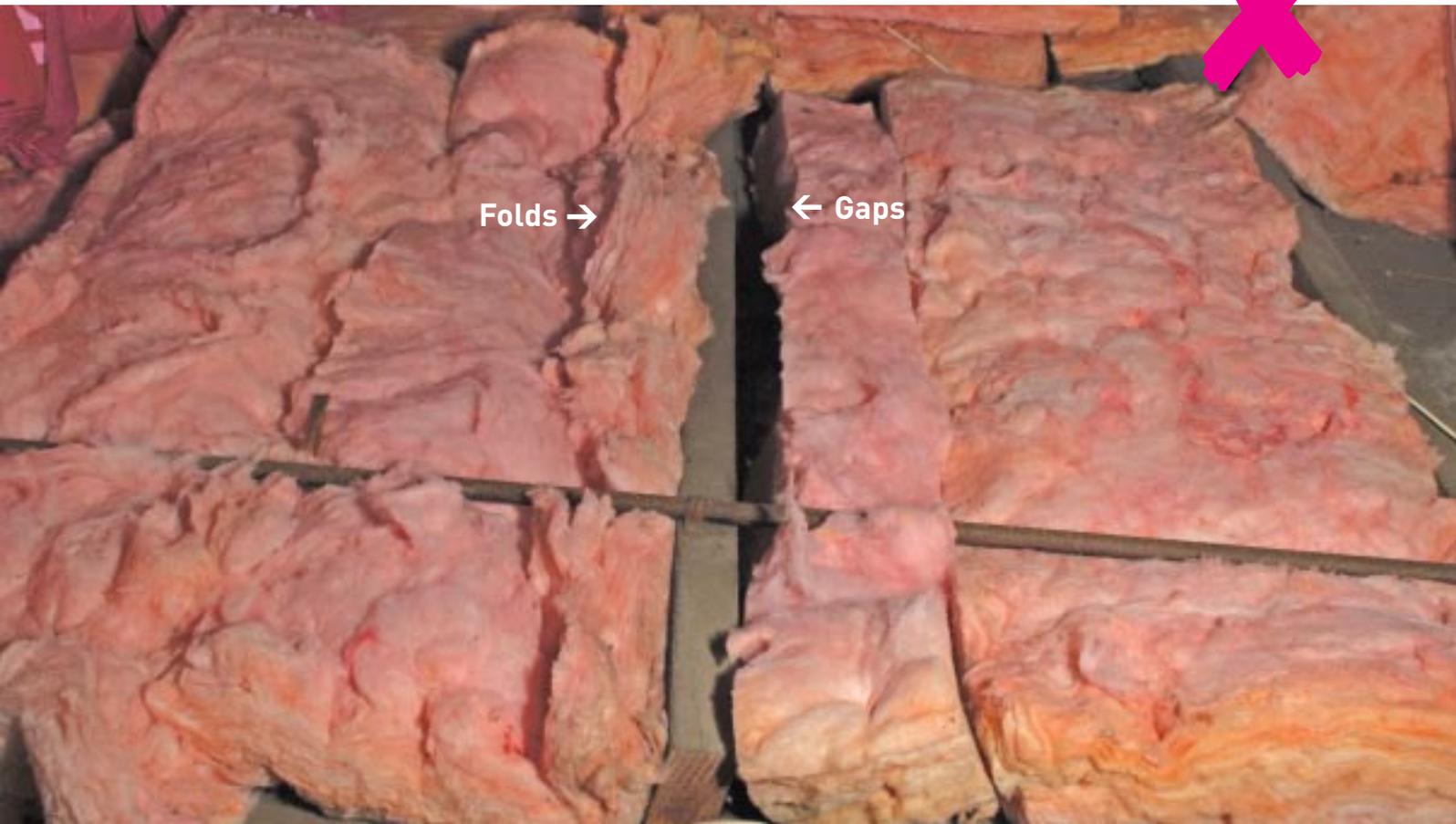


What does a good installation look like?

A job that looks neat and tidy is often the one which will perform better. Folds and gaps in the insulation don't just make the work look untidy, but they also reduce the effectiveness of the insulation.

TIP

If you have a few pieces leftover, place an extra layer over the main bedrooms and living areas that you spend most of your time in.





What are you waiting for? Get sorted and enjoy 'more than comfort' for years to come.

FREE DIY pack!

Don't forget, to get your very own **FREE DIY PACK** (valued at \$90 RRP) register online at www.pinkbatts.co.nz/DIYpack
Pack includes a knife, disposable overalls, dust mask and safety glasses.



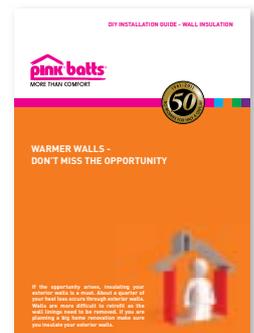
Terms and conditions: Offer limited to one DIY Pack per customer. Minimum purchase of \$200 (inc GST) on Pink® Batts® insulation is required, please keep your receipt as proof of purchase. Pack includes knife, disposable overalls (one size fits all), dust mask and safety glasses. While every endeavour will be made to send packs out the day after registering, please allow up to two weeks for delivery. Packs are only available while stocks last.

Ready for your next project...?

The next step to 'more than comfort' is to install Pink® Batts® SnugFloor® insulation under your floor.

And if the opportunity arises make sure you don't miss out on insulating your walls too!

Pick up your floor and wall insulation guides at your favourite store or visit www.pinkbatts.co.nz



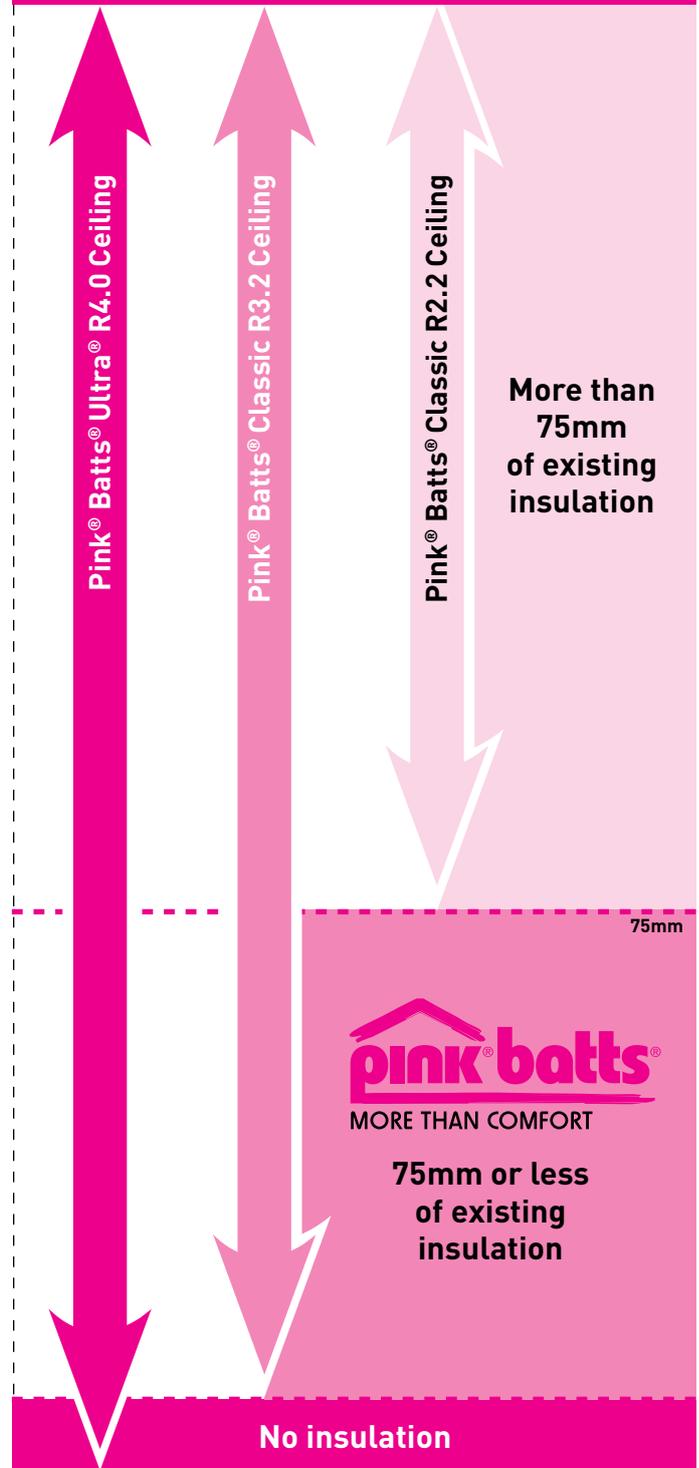
For instructions on how to use the 'Pink® Batts® ceiling insulation level selector' refer to the inside cover of this guide.

Red Zone Existing Home

Pink® Batts® Ceiling insulation level selector

(Use the Ceiling DIY Guide for instructions on how to use)

The best recommended level is using Pink® Batts® Ultra®



PUNCH OUT ALONG BLACK DOTTED LINE

Blue Zone Existing Home

Pink® Batts® Ceiling insulation level selector

(Use the Ceiling DIY Guide for instructions on how to use)

The best recommended level is
using Pink® Batts® Ultra®

Pink® Batts® Ultra® R5.0 Ceiling

Pink® Batts® Classic R3.6 Ceiling

Pink® Batts® Classic R2.6 Ceiling

More than
75mm
of existing
insulation

PUNCH OUT ALONG BLACK DOTTED LINE

75mm


MORE THAN COMFORT

75mm or less
of existing
insulation

No insulation

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