

- ✓ AUSTRALIAN OWNED
- ✓ AUSTRALIAN MADE
- ✓ ISO 9001

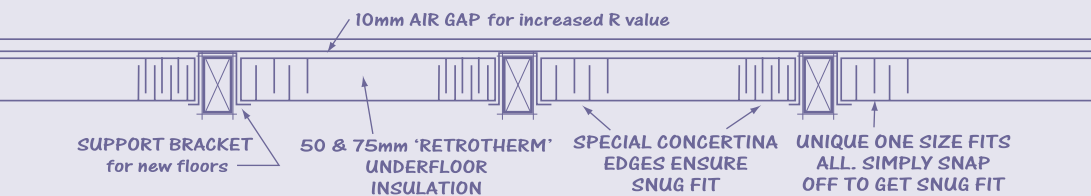
**RETROTHERM**<sup>®</sup>  
Superior Underfloor Insulation



*Meet Five Star  
Energy Ratings  
with*

**RETROTHERM**<sup>®</sup>

Superior underfloor  
insulation



DRAWING: RETROTHERM  
RT-4763 (NOT TO SCALE)

FINAL VERSION	✓
R VALUE	✓
APPROVED	✓
CHECKED	✓
SAFETY	✓
OK'D	✓
RECYCLED	✓

### Key product features of RETROTHERM<sup>®</sup>

- ✓ Manufactured from flame retardant materials to AS 1366, Part 3 - 1992
- ✓ Fast, easy and safe to install, convenient 1.2 metre lengths
- ✓ Non-Allergenic, clean and fibre-free
- ✓ Can be mechanically fixed or glued in place
- ✓ Environmentally friendly recycled polystyrene
- ✓ Will increase the warmth of your floor and your home
- ✓ Designed to fit 10mm under flooring to create an air pocket

*Exceeds the  
minimum R Value  
1.3m<sup>2</sup> K/W requirements  
for timber floors as per  
AUS 4218:1996 for all climate  
zones in Australia.*

*Complies with the fire  
safety requirements of the  
Building Code of Australia  
Acceptable Solutions.  
C/AS1 (Concealed  
Spacing).*

**AUSTRAL**  
INSULATION

[www.australinsulation.com.au](http://www.australinsulation.com.au)

## PRODUCT INFORMATION

**MELBOURNE** (03) 9706 3277  
**ADELAIDE** (08) 8252 7188  
**PERTH** (08) 9249 4022

RETROTHERM® is available in 50 and 75mm thickness recycled polystyrene measuring 1.2m long. Width variations from 420mm to 600mm suit all stud and floor joist applications, the special 'concertina edges' compress on application to ensure that insulation is a snug fit between floor joists.

Polystyrene contains 98% air by volume in a closed cell structure and this makes it a very efficient insulation product with an R value from 1.2 to 2.7

The problem with traditional sub-floor products is that they can be affected by draughts and breezes. An added advantage of RETROTHERM® is that the thermal resistance (R value) is considerably more stable when subjected to air movements. The "one size fits all" profile and special 'concertina edges' on RETROTHERM® allows you to simply cut or snap off the side pieces of the panel to ensure a nice snug fit between the floor joists of your home. RETROTHERM® can be glued in place using the specialist water based adhesive or mechanically fixed using galvanized nails or folded galv. sheet as illustrated overleaf.



## INSTALLATION INSTRUCTIONS FOR EXISTING AND NEW HOMES

Fitting RETROTHERM® to an Existing home using brackets:

- Size the sheet to the floor joist centres to determine the best size needed.
- Cut or snap off the special 'concertina edges' to ensure a snug, tight fit between the joists. RETROTHERM® requires the concertina edges to be tightly compressed against the floor joists.
- Place the bracket against the RETROTHERM® sheet and hammer into your floor joist. Ensure that the teeth of the bracket are hammered home. Brackets should be placed one either side of the sheet, 400mm in from each end.

Fitting RETROTHERM® to an Existing home using adhesive:

- Size the sheet to the floor joists to determine the best size needed.
- Cut or snap off the 'concertina edges' to ensure a snug, tight fit between the floor joists. RETROTHERM® requires the concertina edges to be tightly compressed against the floor joists.
- It is important to vigorously shake the adhesive can prior to and during application.
- Remove the dust cap and then proceed to screw the can onto the gun.
- Partially unscrew rear trigger regulator (to adjust the speed of flow).
- All surfaces must be clean and debris free.
- Apply a continuous bead of 6mm to 8mm down the length of the RETROTHERM® sheet (on upper surface) using a continuous wave or 'S' pattern across the sheet.
- Fix the sheet onto the underside of the wooden flooring within 5-10 minutes. NOTE: the time limits are important. Not observing the time requirements may result in poor adhesion.
- Upon completion of the work, screw in the rear trigger regulator and wipe the nozzle clean. The gun may be stored on the can for three to four weeks. Always store the can vertically.

Installing RETROTHERM® in New buildings:

- Galvanized nails are the simplest solution and will support panels adequately until the floor is laid.
- Alternatively, brackets can be folded in galvanised steel to suit Retrotherm 50 and 75mm thicknesses for New Home installations.
- Invert the bracket (so it forms an 'Top Hat' shape) and place on top of the floor joist. The brackets should allow the panel to sit 10mm below the underside of the floor material thus creating an air pocket (Building Code Guidelines).
- Brackets should be fixed to the floor joists so that they are on either side of the sheet, 400mm in from each end.
- In new domestic homes, the floor joists are typically placed at 400mm and 450mm maximum centres. When correctly cut to size RETROTHERM® will sufficiently compress into the space between the floor joists at these centres.
- When the brackets are in place, simply drop in the RETROTHERM® sheet.
- Once the sheet is in place, fix the flooring to the joists in accordance with the manufacturers recommendations.
- RETROTHERM® can be installed post-construction by following the Existing Home method.

### IMPORTANT PRODUCT INFORMATION:

For a full description on the use, application and limitations surrounding the use of RETROTHERM® (Foamed Plastic) in construction applications, please refer to the Building Code of Australia, Acceptable Solutions C/AS 1.

All electrical cables must be prevented from physical contact with RETROTHERM® insulation.

This can be achieved in a variety of ways, such as directly isolating the cable from the RETROTHERM® or by wrapping the electrical cable in polyester tape.