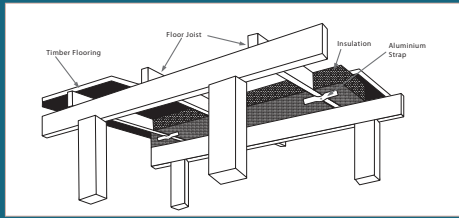


Simple to install

Tools required:

- Tape measure
- Professional nail gun with round galvanized nails or equivalent OR
- Professional electric or air staple gun with galvanized or stainless steel staples OR
- Professional cordless drill driver and galvanized screws
- Sharp long bladed, holstered knife
- Torch or lamp



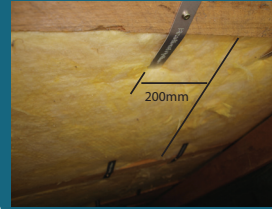
Installing Optimo™ in existing floors

Bradford Optimo is simple to install beneath an existing timber floor.

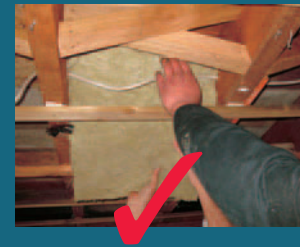
- Take enough packs into the floor area for the whole job, where possible. As access and workspace can be restricted two people may be required for installation.
- Use 415mm width segments for 450mm joist centres and 565mm width segments for 600mm joist centres.
- Start fitting the Optimo from the furthest point from the floor access.
- Friction fit Bradford Optimo segments tightly between the joists and press in place to ensure there are no gaps between insulation and joists, or abutting edges of insulation.



- If the segment is too tight, trim the edge to 5-8mm over the width of the space before inserting.
- If the segment is too loose, cut across the width and turn 90°
- Fix the aluminum strap to the timber joist approximately 200mm from each end of the segment on each side.
- Bend the aluminium strap upwards to support the underside of the insulation.
- Take care not to block ventilation openings



Installing Optimo™ with difficult access and non-standard joist spacing



- In floor areas, where it is difficult to fit a segment or insert over beams, it is advisable to cut the segment into shorter lengths and install it piece by piece. Additional straps will be required for small pieces. Where the length is under 500mm, it is advisable to place the strap in the centre of the piece one on each side.
- Segments can be cut across the width to install between joists, where spacings are uneven (5-8mm oversized). This will reduce wastage where there are significant variances in joist spacing. This will require additional straps, one in the centre on both sides.

- Ensure there are no gaps when installing one piece of insulation up against the next.
- If a segment is broken for any reason, it should be neatly cut square on both ends before fitting, to ensure there are no gaps.
- In deeper joist situations bend the strap into an L – shape, at 90°, and fix to the side of the joist to hold the insulation in place.
- In rare cases where joist centres exceed 620mm centres, it is not recommended to use Optimo under floor.

Electric cables, pipes and services

- If any electrical wiring will be covered by insulation, seek advice from an electrician.
- Electric cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail.
- If services such as electrical cables or plumbing pipes run along the underside of the joists, bend the strap into an L shape, at 90°, and fix to the side of the joist to avoid contact with wiring or pipes.
- Install insulation around pipes and plumbing whist ensuring minimal disturbance to the plumbing.

Safety Information

- When working in poorly ventilated areas, an approved respirator conforming to NZS1715 is recommended.

NZS 4246 Energy Efficiency (Installing Insulation in Residential Building)

- For further information on installation of thermal insulation in residential buildings refer to NZS 4246.1. Copies of this Standard are available from Standards New Zealand.