

**Insulated** Corrugated

Using the slot on the Turn-up/Turn-down cool, place the tool into the steel sheeting InsulRoof<sup>®</sup> roof panel

**Rivet fixing** 

through flashing

Roof pan turne down - gutter er





BONDOR

# Patio Installation Guide

Leaders in Thermal & Architectural Building Solutions

### Panel Overview



1000mm cover width

# **Design Considerations**

- InsulRoof should be installed at a minimum pitch of 5° (or 85mm fall over 1 metre) to allow for adequate rainfall runoff and the roof lap facing away from prevailing wind to prevent flooding of side laps.
- To maintain the minimum clearance height below the fascia beam and a suitable roof pitch, it may be necessary to design the structure as a 'fly over' as opposed to attaching the patio to the house fascia.
- Gutter size (capacity), downpipe size and quantity should be considered carefully, taking into account local rainfall intensity and any additional rainwater runoff from other roof structures to eliminate overflow back in to the building structure or InsulRoof' panel.

# Handling Panels

Installation Checklist

- 1. Lift InsulRoof' panels vertically from pack without dragging panels to protect from scratching Colorbond' surfaces.
- Always use cut resistant gloves when handling InsulRoof<sup>®</sup> panels.

# Equipment to install InsulRoof<sup>®</sup>



- Carpenter's trestles (2) padded with soft material on top.
- Screw gun with 5/32 drill bit and 14g Tek adaptor
- · Left and right handed tin snips
- Electric shears
- Shifting spanner for roof pan turn ups
- Pop rivet pliers for flashings
- Boot knife for removing core material
- Towel or blanket to cover patio beams and protect panels
- Measuring tape and spirit level
- · Eye and hearing protection and cut resistant gloves

### Accessories

- 14g class 4 metal/timber roof screws as per engineering.
- 15mm stitching screw with neoprene washer for overlap
- Profiled vermin protection and EPS-FR rib infill strips.

Description	Checked and completed: Write Name & Signature
InsulRoof <sup>®</sup> roof installed to a minimum of 5 <sup>°</sup> pitch	
Roofing turn up done at high end	
Trim underlay to prevent capillary action of water	
Downpipe capacity & quantity selection suitable	
Clean down roof of swarf, dirt and debris	
Seal any incorrectly drilled holes	
Electrical completed by licensed professional	

### Structure Preparation

- Fit receiver channel to fascia using appropriate fasteners for the fascia type. (Tek screws for steel fascia, Type 17 screws for timber fascia, or masonry anchors for brick/concrete walls.). Apply a thick continuous bead of silicone without gaps to the top of the back face of the receiver channel for protection against water ingress behind receiver.
- 2. Install posts and beams to manufacturer's specifications, ensuring frame is square, checking diagonals.

### Panel Preparation and Installation

 Carefully lift panels up off pack and place ceiling side upwards on the padded carpenter's trestles. Peel back the plastic core-strip coating 50mm from all four edges of the panel. Core-strip can be completely removed at the completion of the job.



2. At ends with steel skin cuts, cut through foam using the boot knife to form the gutter rebate. Then, remove the 60mm strip of steel ceiling skin.





3. Cut out both layers of insulation core material using the boot knife. Removing completely from the corrugated ribs.





4. On the first panel only, cut and remove the overlap using electric shears. This will assist with side barge installation.



5. Turn the panel over and at the receiver channel end of the panel to turn up pans using shifting spanner. This is done by cutting out a small 'V' in the foam below each pan with the boot knife. Use a small shifting spanner to turn up roof pans to the full rib height, being careful not to overbend and tear the steel skin.



InsulRoof<sup>®</sup> does not require roof pans turned down at gutter end.

- 6. Before each panel is lifted into position, place a towel or blanket over the beam to protect InsulRoof's ceiling side.
- 7. Remove the core-strip protection film away from beam and receiver channel.
- Place the cutback end over the beam and then push the panel back into the rear receiver channel, ensuring the panel is square to both the beam and the fascia.



# Installation of InsulRoof<sup>®</sup> to an existing house fascia

 Pin the panel in place with a rivet underneath the receiver channel, insert foam infill strips in empty panel ribs at the end and a screw into every 3rd rib from the outside. Evenly space the 4 x 14g class 4 roof screws across the 13 ribs as below.

Note: Refer to engineering if fixings are required every 2nd rib for specific spans and for Region C.



9. On the second panel and all subsequent panels, cut the corner off the overlap to allow easier insertion into the receiver channel.



- 10. Prepare all other panels as per the first panel (refer Step 4) without trimming off overlaps.
- 11. Continue to move the towel or blanket across the beam/s to protect each panel prior to contacting the beam/s.
- 12. Install subsequent panels by:
  - Position a person at each end of the panel and move the panel into position beside the previously installed panel.
  - Hold the panel above the installed panel and angle down at 30° to place the overlap of the roof skin over the previously fitted panel.
  - Move the panel down, engaging the ceiling underside slipjoint by placing the male interlock into the installed panel's female interlock.
  - Check that the ceiling join is a neat 'V' join, with no or minimal gap or flat of the male interlock showing.
- 13. Slide the panel back towards the receiver channel. Pin the panel in place with a rivet underneath the receiver channel and a screw into the 3rd rib from the outside.
- 15. Insert profiled vermin protection foam in pans inside receiver channel.
- 16. After all panels are fitted, install flashings for receiver, fascia and barge, gutters and downpipes as per AS HB 39.
- 14. Stitch roof sheet overlaps at 1000mm centres with 15mm stitching screws with neoprene washer.
- 17. Please visit www.insulroof.com.au for flashing detail drawings or speak with your local InsulRoof dealer.



# www.InsulRoof.com.au

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