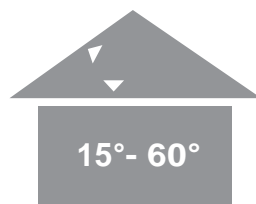


Installation Instructions of Hometech Fakro Skylights EH Flashing

Suitable for corrugated, concrete tile
and pressed metal tile roof types



For roofs with minimum pitch 15°
and maximum pitch 60°

IMPORTANT: Read ALL installation instructions before commencing installation.

* **ATTENTION:** Please ensure you adhere to the sealing details on pages 5-7

These instructions are to be read in conjunction with the
FAKRO installation guides included in the product packs.

Hometech FAKRO
0800 466 383
www.fakro.co.nz

Homotech FAKRO

0800 466 383

PLEASE NOTE: Special Instructions for different roof profiles are found at the rear of these instructions – please read before proceeding to install.

Homotech FAKRO skylights are typically sold supply only. However, this product must be installed by either Homotech certified installers or by other competent persons. In many cases a building consent will be required, and installation will be subject to council requirements. Please note that Homotech FAKRO recommend you read all instructions prior to installation. Commencement of installation is considered confirmation that you have received and read all installation material. Homotech provides technical support for installation, but takes no responsibility for workmanship of others, nor responsibility for leaking of the skylight, if the product has not been installed to these manufacturer's installation instructions. Homotech has an installation service that can be provided for a fee, quoted before commencement of the installation of the skylights.

New Zealand Installation Instructions for Fitting Skylights to Rafters

- 1) The FAKRO Skylights must be installed to roofs with a minimum pitch of 15° and a maximum of 60°.
- 2) The skylight must be installed above a complete row of tiles for concrete or pressed metal. On a new corrugated roof install the skylight above a horizontal lap. In the case of corrugated sheets, it is recommended that the upper edge of the bottom sheet be cut or flattened at an angle so that there are no sharp edges which could tear the lead flashing (Fig 2).

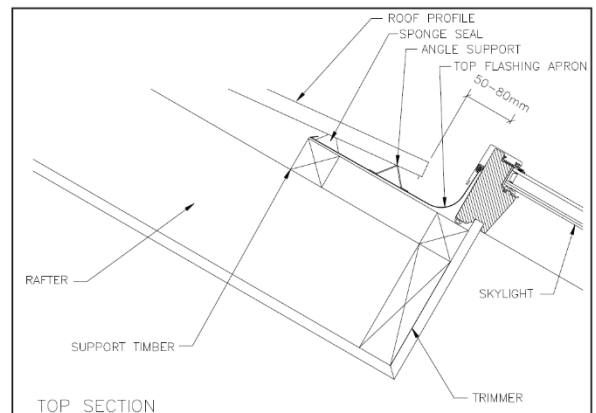


Fig 1

- 3) The following distances should be maintained between the frame and roofing material.
Below the lower edge:
 - 90mm - 120mm for concrete tiles (Fig 2).
 - 90mm - 120mm for corrugated sheets (Fig 2).
 - 70mm - 80mm for pressed metal roofs e.g. Decrabond.Along the sides: 40mm.
Above the upper edge: 50 - 80mm (Fig 1).

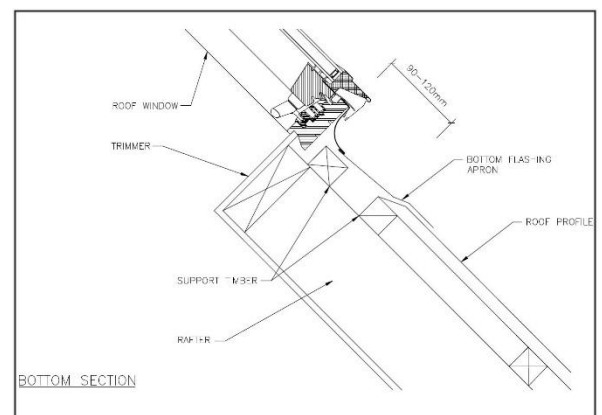


Fig 2

- 4) Mark the Skylight opening on the roofing foil using templates supplied and cut out the battens over the opening. Cut out an opening in the foil leaving a 100mm flap along each of the edges in order to later fold back over battens (Fig 3).
- 5) Cut off the battens/purlins or the roof boards in the area where the Skylight is to be installed and frame out (Fig 4). Note special rebate requirements for metal tile roofs refer page 9-11.

MANDATORY REQUIREMENT ON NEW BUILDS: To adhere to NZ Code E2/AS1 for roof penetrations, the edge of roofing penetrations over 200mm wide shall be supported in either direction with additional treated H1.2 framing, using 50mm wide timber depth to equal purlin depth.

On retrofitted roofs additional framing will be required to support roofing.

- 6) Remove the protection slats from the bottom of the skylight frame.
- 7) The Skylight rests on two metal location pins and is secured to the rafters with six (180mm long) screws (Fig 5).
- 8) Place the Skylight on the prepared opening in the roof. Rest the metal location pins on the frame. Using a spirit level check at the bottom if the frame is placed horizontally. Secure Skylight to framed opening with the 6 long screws provided (Fig 6).



Fig 3

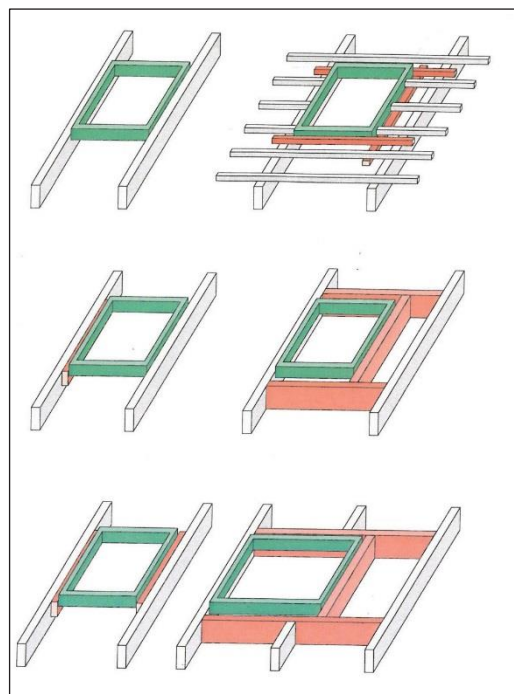


Fig 4

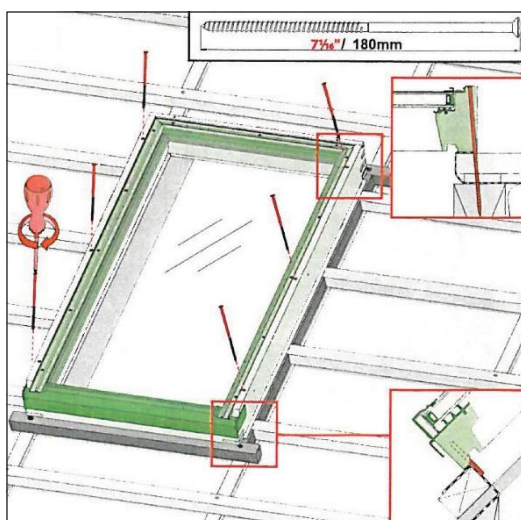


Fig 6

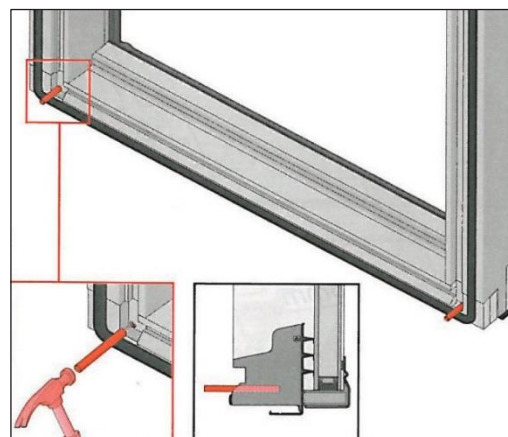


Fig 5

PLEASE NOTE: With existing corrugated roofs, you might have to fix the top flashing (3) to the frame before placing the skylight frame into position.

Instructions for Fitting Flashing

9) The H-type flashings for profiled roofing consists of:

- 1) the bottom profile,
- 2) side flashing element,
- 3) top flashing element,
- 4) metal straps,
- 5) gutter – not needed (for NZ roofs),
- 6) sponge seals,

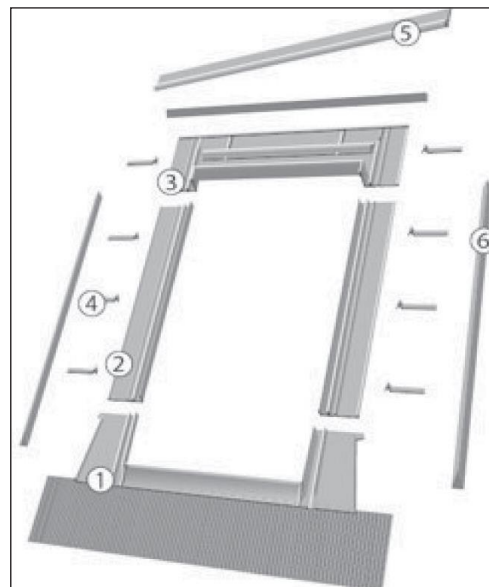


Fig 7

10) Position on the bottom flashing (1) on the roof surface. After eventual corrections in positioning the bottom flashing nail it to the frame side on its upper edge (Fig 8).

11) Put on the bottom flashing covering the bottom part of the frame (Fig 8) and screw it to the frame. Use only stainless-steel wood screws. Remove the paper strip protecting the Bitumous layer underneath the element. Press the lead apron to shape it and stick it to the roof surface. **Note: Please ensure there is a tight fit between the flashing to the horizontal timber frame.**

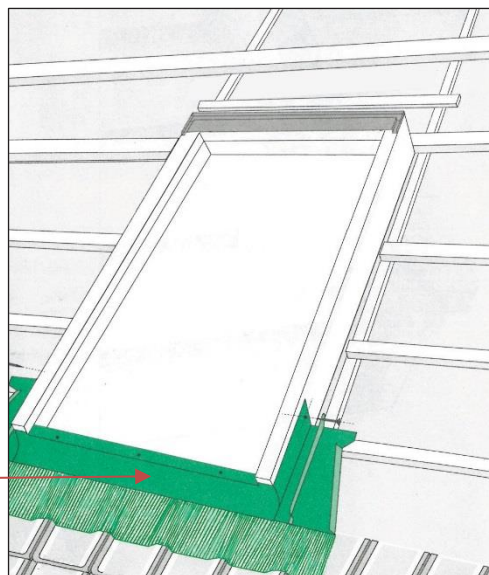


Fig 8

12) Position the side flashing (2). Nail them to the frame sides and battens using the metal straps (4). Join the bottom flashing with the side flashing pieces.

13) Slide on the flashing covering the frame sides and screw them to the frame. Put on the top flashing (3), nail it to the battens using the metal straps and screw it to the frame side.

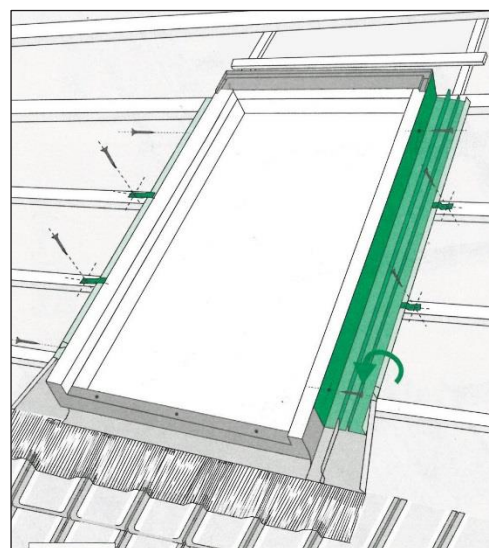


Fig 9

- 14) In order to ensure wind-tightness stick the self-adhesive sponge-seal (6) to the flashing and cut them to fit the shape of any gap. Put the missing roofing materials in place keeping the required distance from frame.

NOTE: On lower pitch roofs, 15 – 20°, place a small bead of silicone between flashings, where they overlap and between apron and metal frame at the bottom of the Skylight.

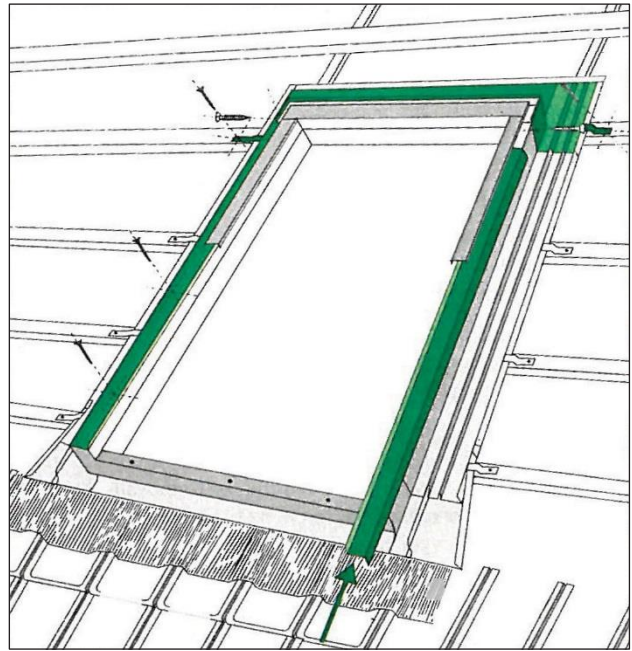


Fig 10

ATTENTION: Please ensure the below instructions are followed

It is imperative that the lower section flashing is attached firmly up under the pre-fitted neoprene apron to the skylight wooden frame.



Ensure the flashing is also flush against the side of the skylight.
This is to assist in reducing the potential of water tracking across and down the inside of the flashing upstand.



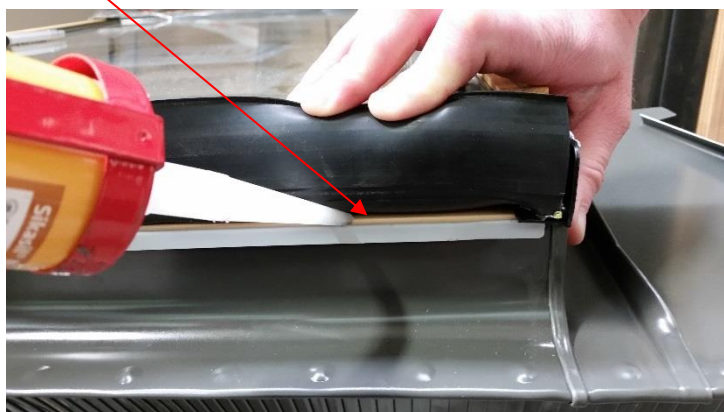
Lift the neoprene apron to visually ensure the flashing is tight against the bottom wood frame of the skylight.



After tacking the flashing in place, lift the neoprene apron to expose the underside of the apron.

Starting in one corner run a bead of silicon from one corner to the other on the top of the metal upturn to seal any gaps.

Note (Do not silicone across the top of the neoprene apron as this is a condensation outlet.)



When complete release the neoprene apron back into position.



Apply a small amount of silicone in the corners on both sides on the top of the neoprene apron sealing between the neoprene apron, window flashing and plastic component.

Note: Do not silicone across the entire top of the neoprene apron as this is a condensation outlet.



Special Instructions for New Long Run Roofs

Refer to general installation instructions and mandatory requirements featured earlier in this document.

- 15) See Fig 11: Fit the bottom sheet of iron, first making sure it is 90-120mm away from the bottom edge of the skylight timber frame (see Fig 2).
- 16) You will need to cut and fold the top of the bottom sheet of iron where the mat laps over the iron, to allow the mat to sit flat on the iron. NOTE: It is important to do this, to prevent creating a catchment area. Ensure there are no jagged edges that may rip the mat (Fig 11).
- 17) Insert flashings as per instructions on page 4.
- 18) The bottom mat is designed to partially lay under the side sheets of iron. If possible allow sheets to run down the side of skylight, down, over and past the mat. Finish placing sheets around skylight leaving 50 - 80mm at top and 30 - 40mm at sides of skylight.

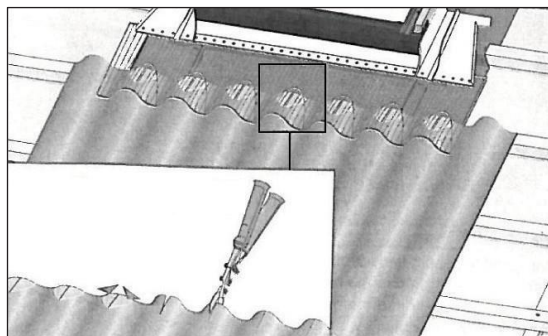


Fig 11

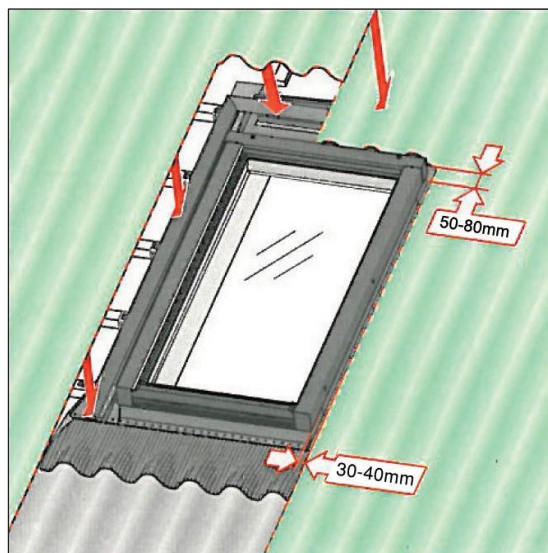


Fig 12

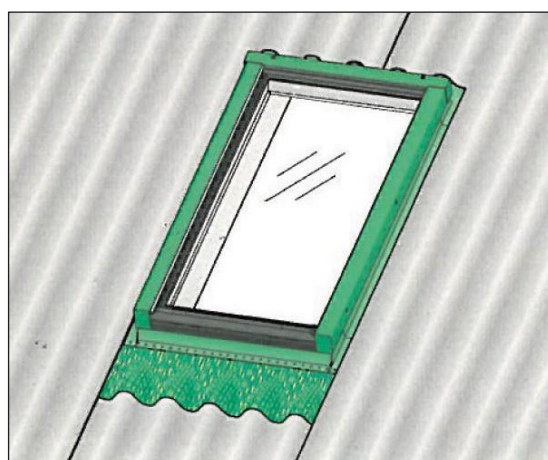


Fig 13

Special Instructions for Concrete Tile Roofs

Refer to general installation instructions and mandatory requirements featured earlier in this document.

- 20) See Fig 14/15: The skylight must be installed above a complete row of tile. Make sure there is a gap of 9cm between skylight frame and the row of tiles. You will need to chamfer the top of the bottom row of tiles, where the mat laps over the tiles, to allow the mat to sit flat on the tiles. This is important to help prevent a water catchment forming that may cause leaking.
- 21) Insert flashings as per instructions on page 4.
- 22) Proceed to place and cut tiles around flashings leaving 50 - 80mm at top and 30 - 40mm at sides of skylight.

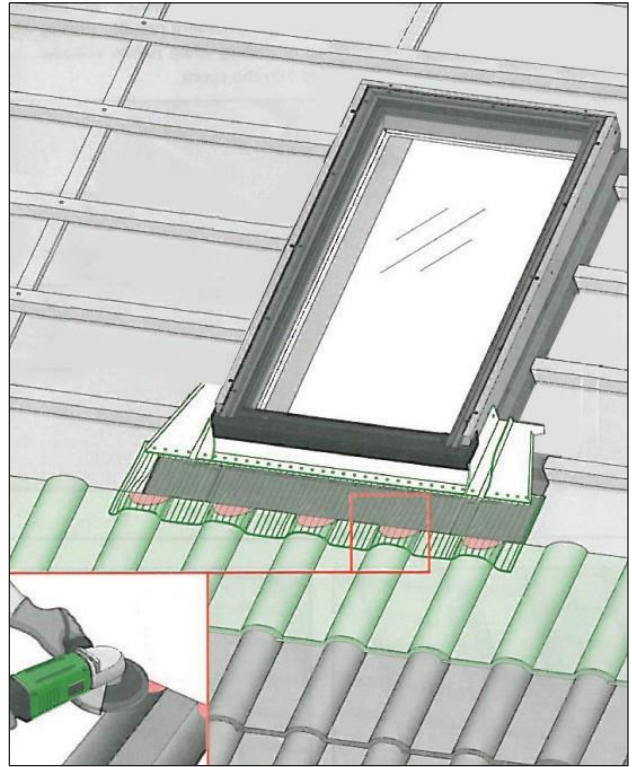


Fig 14

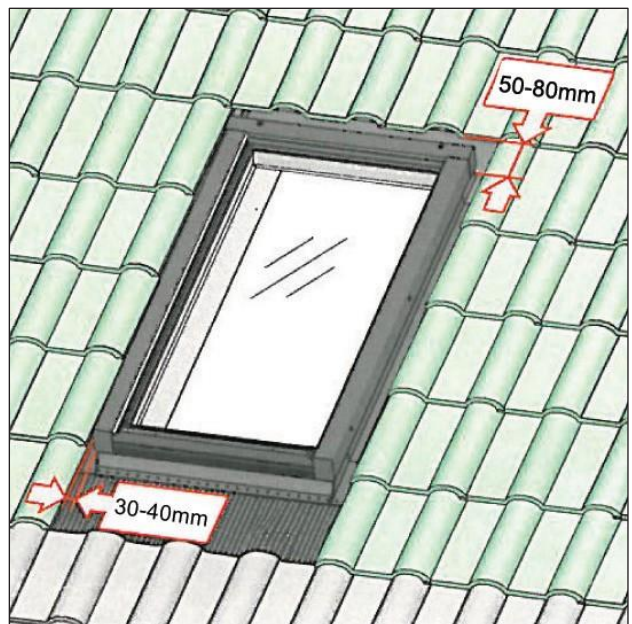


Fig 15

Special Instructions for Existing Iron Roofs

Refer to general installation instructions and mandatory requirements featured earlier in this document.

- 23) Cut the roofing material as shown in the diagram (cut line). Provide clearance as shown (see Fig 16). Overcut the lower cut, 210mm long, at the bottom two corners as shown. This allows the mat to pass through the metal sheet. NOTE: Ensure the bottom two cuts finish on the high point of the roofing profile shown in Fig 16 - A and B. Ensure the skylight frame is 90 - 120mm from the lower cut line.
- 24) Remove the sheets of iron for later re-positioning.
- 25) Trim the roof framing to accommodate the skylight as per earlier instructions. A batten will be required under the iron where the bottom mat laps over the lower section of roofing material, to stop the iron sagging.

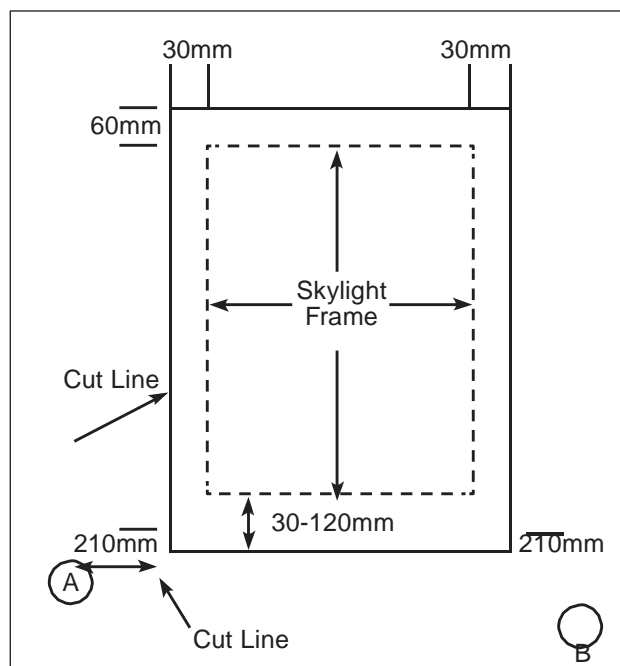


Fig 16

MANDATORY REQUIREMENT ON NEW BUILDS:

To adhere to NZ Code E2/AS1 for roof penetrations, the edge of roofing penetrations over 200mm wide shall be supported in either direction with additional treated H1.2 framing, using 50mm wide timber depth to equal purlin depth.

On retrofitted roofs additional framing will be required to support roofing.

- 26) (See Fig 17) You will need to chamfer the top of the bottom sheet of iron, where the mat laps over the iron, to allow the mat to sit flat on the iron cut top of iron profile and fold down. NOTE: It is important to do this, to prevent creating a water catchment area. Ensure there are no jagged edges that may rip the mat.

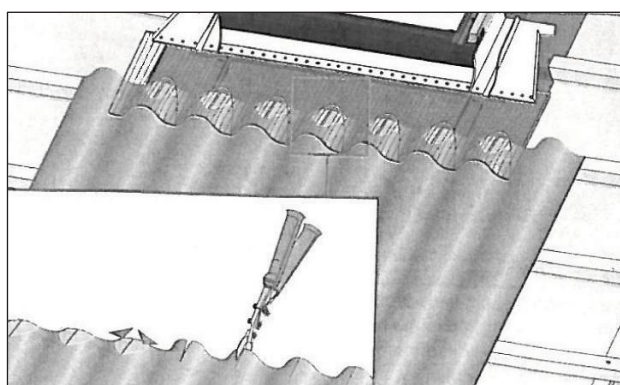


Fig 17

- 27) Re-fit the roofing material leaving 50 - 80mm at top and 30 - 40mm at sides

NOTE: With an existing corrugated roof you may have to secure the top flashing to the frame before placing the skylight frame in position.

- 28) See Fig 18: Two roofing material fillets need to be made to the dimensions shown in Fig 18, one left hand – one right. These can be made from the piece of roofing iron cut out for the skylight. Use the same color iron as the roof off cuts. The fillets are designed to slide hard up under each corner. The point “X” must be on a high point of the profile of the roof. Ensure no ragged edges that may cause the mat to rip. They can then be attached at the bottom edge to the roof with pop rivets. The iron that goes over the fillet can then be pop riveted to the fillet to hold it down. Do not screw or pop rivet through skylight flashing. NOTE: Silicone over the pot rivets. These fillets are required to weatherproof the skylight – failure to carry out this function may cause leaking.

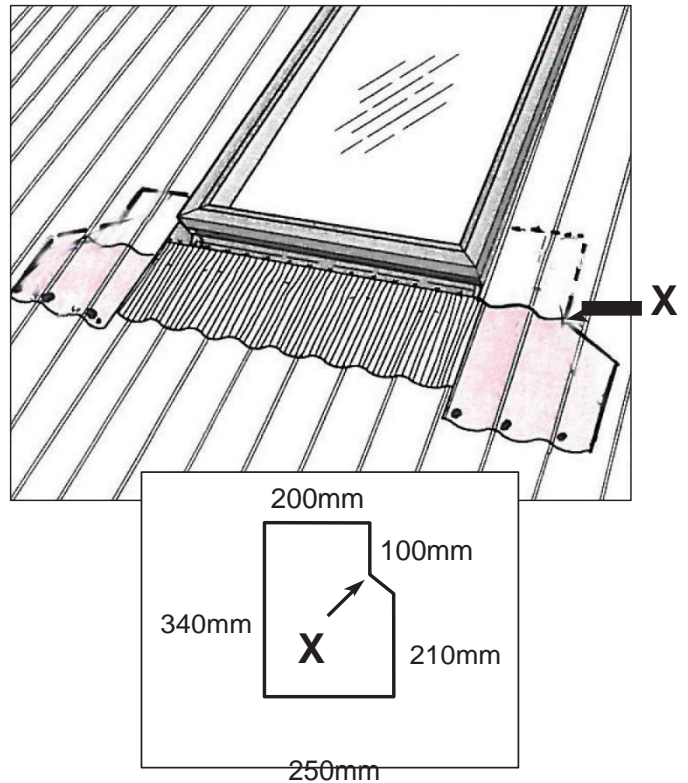


Fig 18

Special Instructions for Metal Tile Roof

Refer to general installation instructions and mandatory requirements featured earlier in this document.

- 30) See pages 11-12: A rebate needs to be formed in the tile battens. Cut a rebate 25mm in depth and 155mm in length. NOTE: Extra timber may be required to strengthen the weakened tile battens. Ensure the skylight frame is at least 70 - 80mm from complete row of tiles.
- 31) Proceed to fit flashings as instructions on page 4.
- 32) Make opening in roof as per earlier instructions.

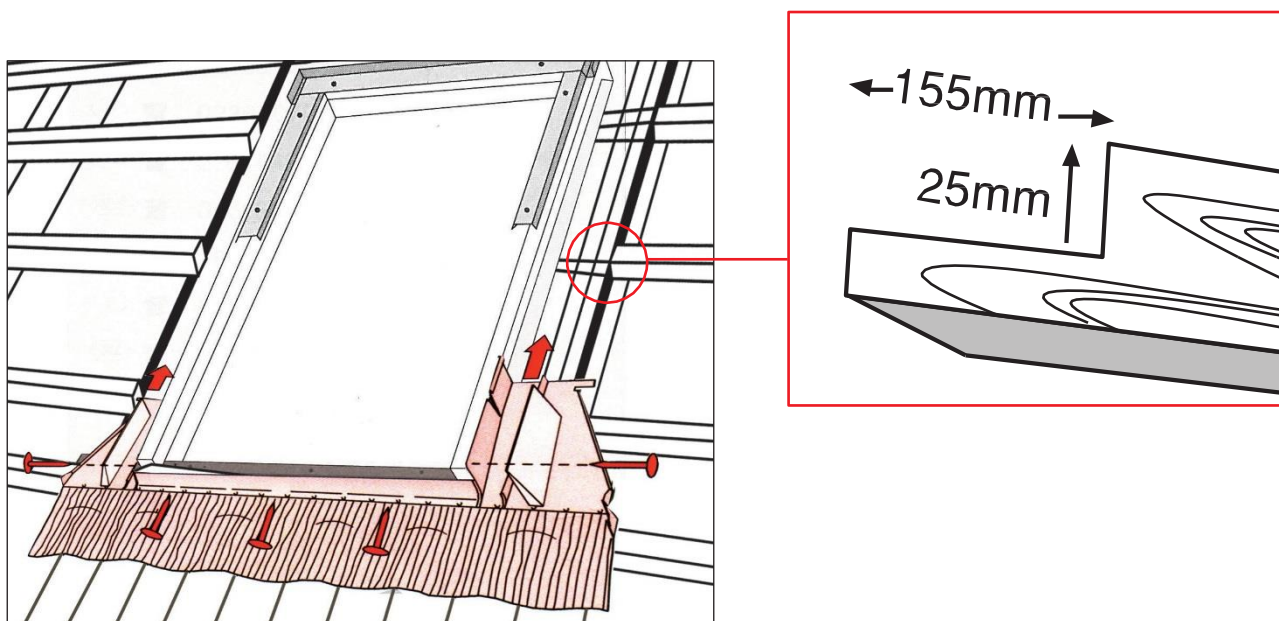
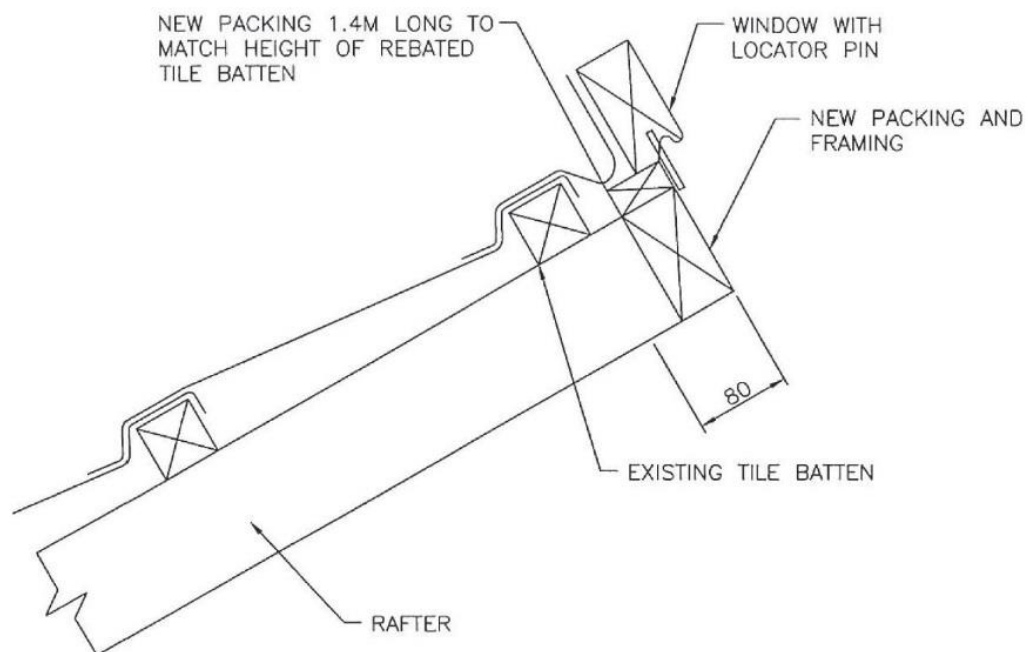
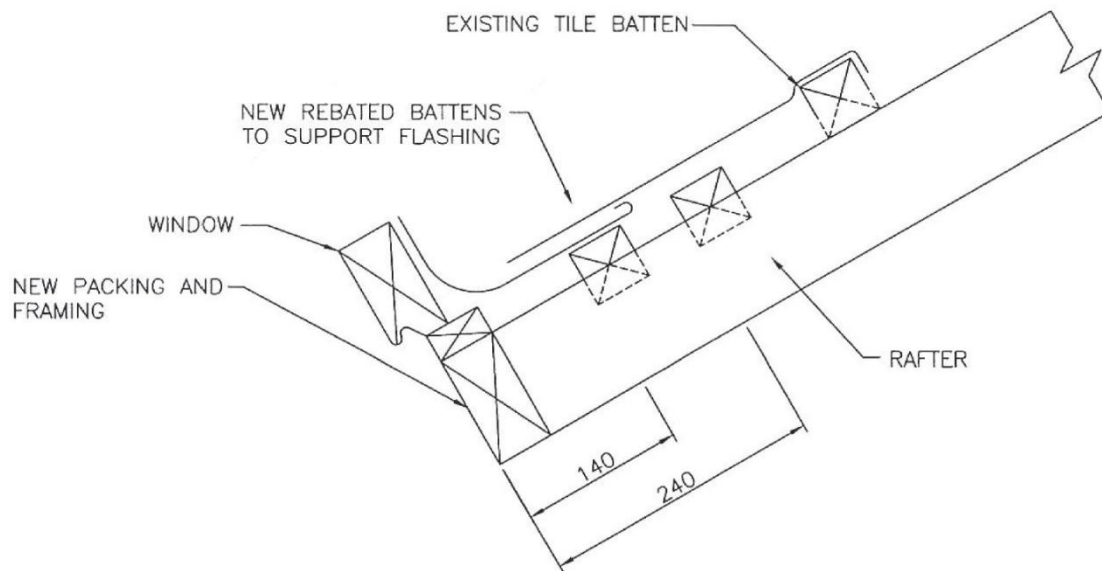


Fig 19

Special Instructions for Metal Tile Roof

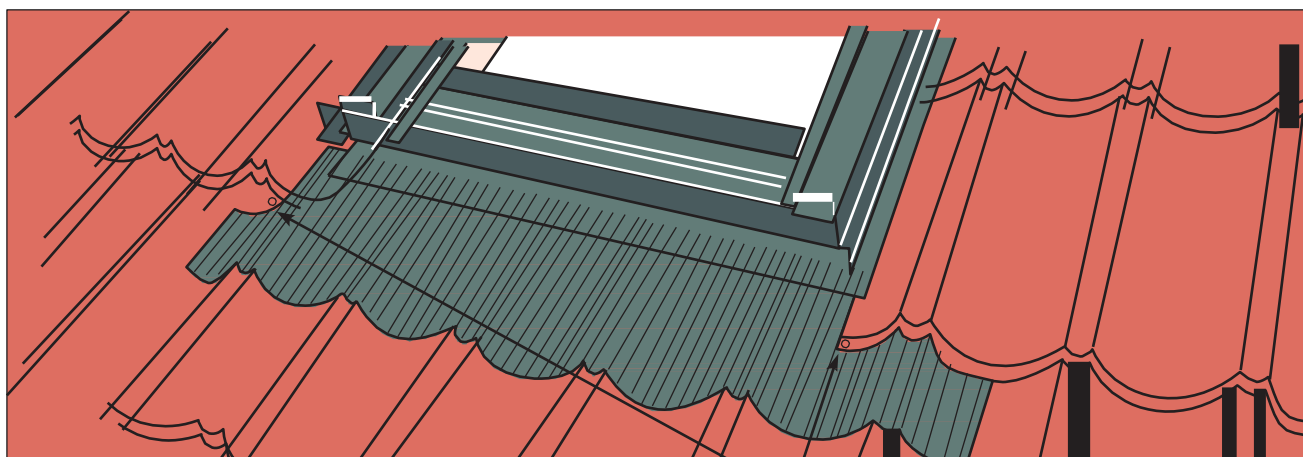
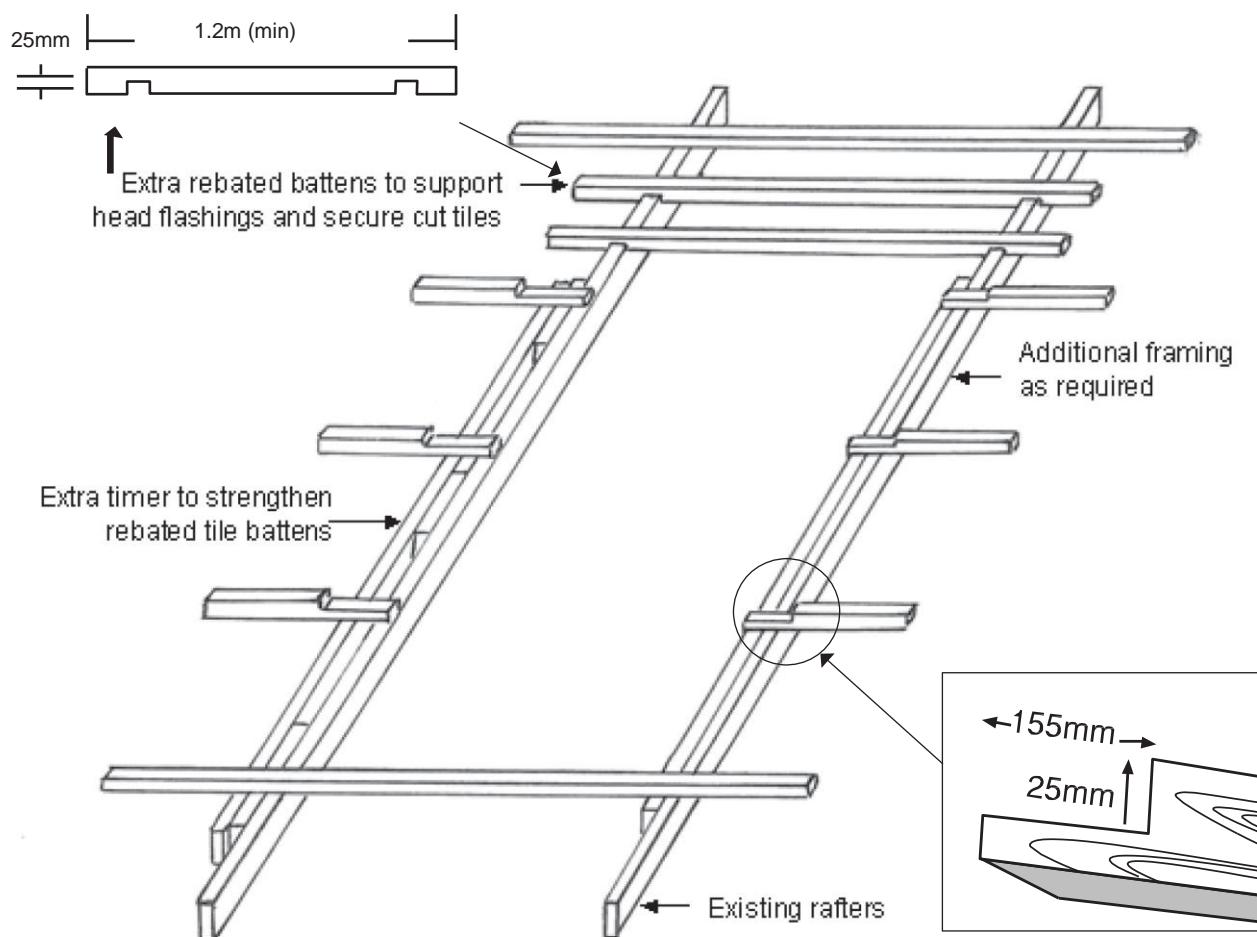
Refer to general installation instructions and mandatory requirements featured earlier in this document.



SKYLIGHT CROSS – SECTION FOR DECRA/PRESSED METAL TILES

Special Instructions for Metal Tile Roof

Refer to general installation instructions and mandatory requirements featured earlier in this document.



Fixing tile through front at this point may be required on lower pitched roofs (15-20°).