metrotile
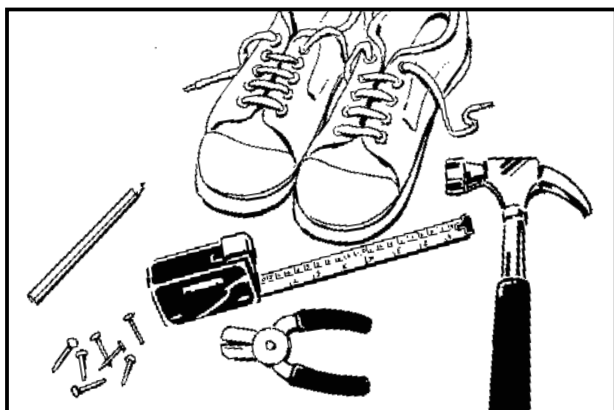## LIGHTWEIGHT ROOFING

QUBE
INSTALLATION GUIDE

IMPORTANT

These instructions are guidelines only and do not include all the appropriate equipment which should be used in accordance with safety regulations.

Please also note ROOFING FELT IS NOT ILLUSTRATED and should be fitted as required.

1 Tools required

Soft soled shoes, claw hammer, tape measure, snips, pencil, Metrotile nails and screws.

IMPORTANT

For **Smooth Coated Qube Tiles** use **Screws** (not nails) througout for **tile** fixing.

2 Attach Fascia Boards

Fix timber or UPVC fascia board. Top edge to be approximately a batten thickness above rafters.
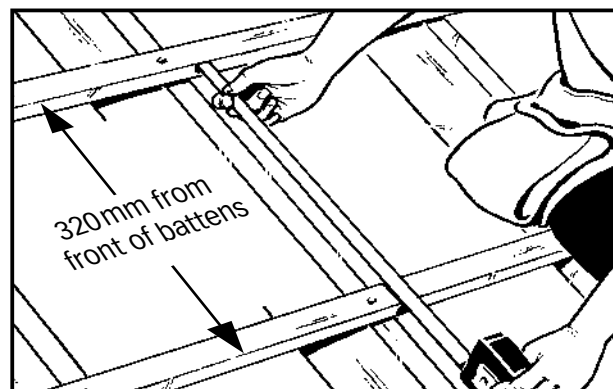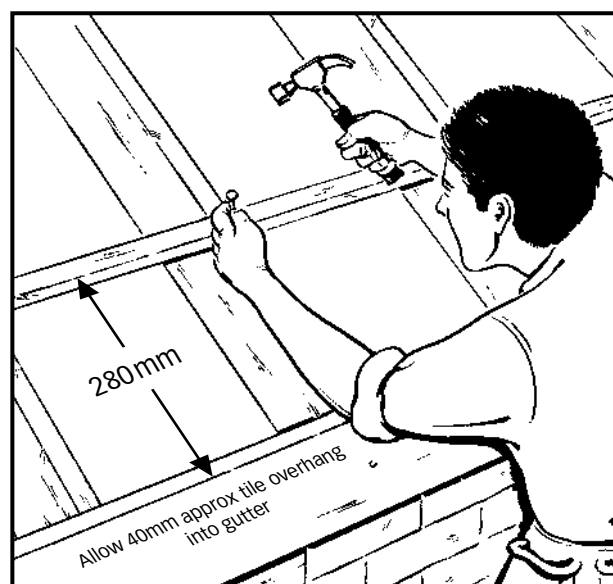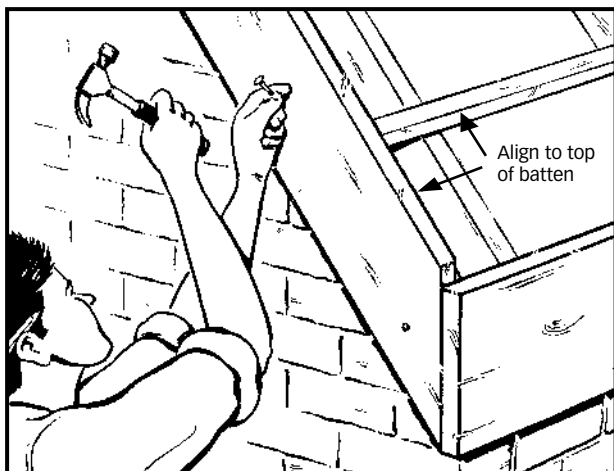

Fascia one batten thickness above rafters

3 Space and attach Battens

Batten spacings are crucial.
They should be set out from front of batten to front of the batten above at 320mm except the first batten which will be 320mm less the overhang of the tile into the gutter, usually 40mm.
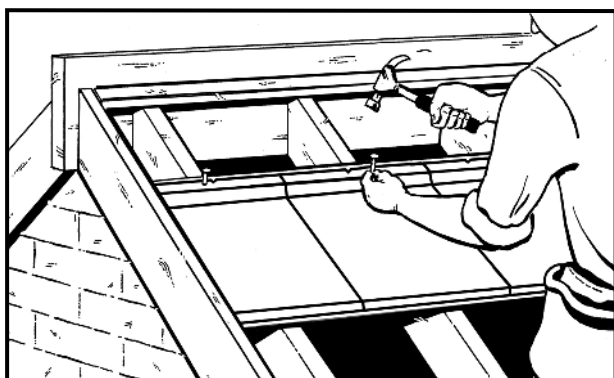
Note: If using the .9 thickness tile, it usually fits better with a gauge of 318mm.

280mm

Allow 40mm approx tile overhang into gutter

320mm from front of battens

Align to top of batten

4 Attach Barge Board

Fix the timber or UPVC barge board with its top in line with the top of tiling battens.
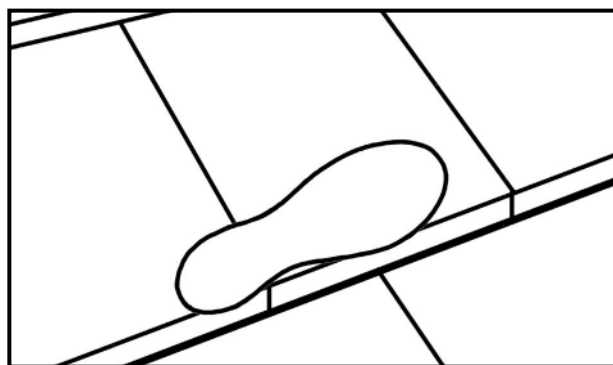

5 Attach first row of Tiles

Start nailing from the first full course down from the ridge. Put in a couple of nails in the top flange of the tile to hold it onto the batten. Lift the front edge of the tile and slide in the next tile down to lap under the top tile. Work along the roof, laying the tiles with the laps away from the line of sight or prevailing weather.

We would advise for aesthetic purposes, staggering the tiles (breaking the bond) when they are laid to avoid uniform lines down the roof. However, if tiles are not staggered, the strength or integrity of the roof will not be compromised.
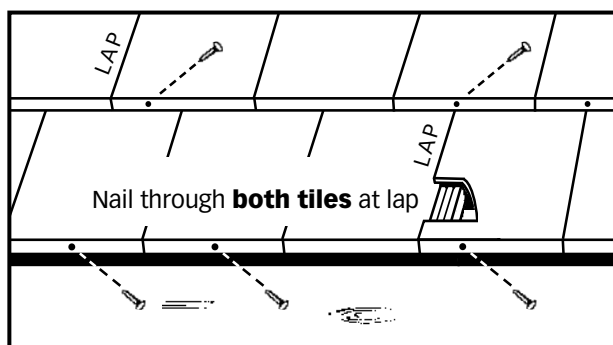
6 Nailing the Tiles

Stand on the nose of the tile (where the batten goes) and nail each tile in the front edge at its highest point (treading on the tiles keeps them nice and tight on the laps!).

7 Stand on the nose of the Tiles

Do not tread on the middle of the tile or on the raised corrugations, always on the front edge in the pan, above where the batten is.
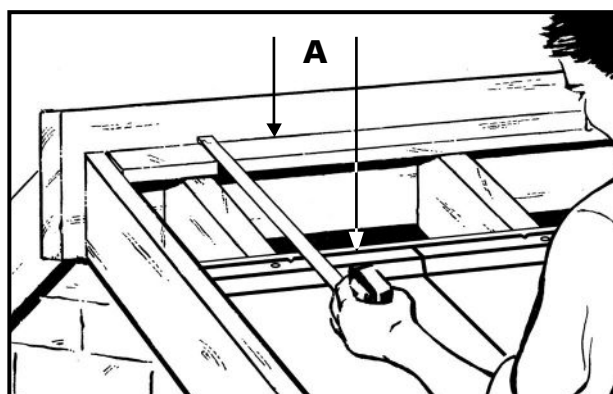

LAP

LAP

Nail through **both tiles** at lap

8 Nailing points and screwing points

Attach nails as above. Cut-away shows correct lap of tiles.

FITTING TILES OR TOP COURSE AT THE RIDGE

Hopefully you will have a full course of tiles at the ridge. If not, measure the **gap A** at the ridge between the back of the top most course of tiles and the back of ridge batten.
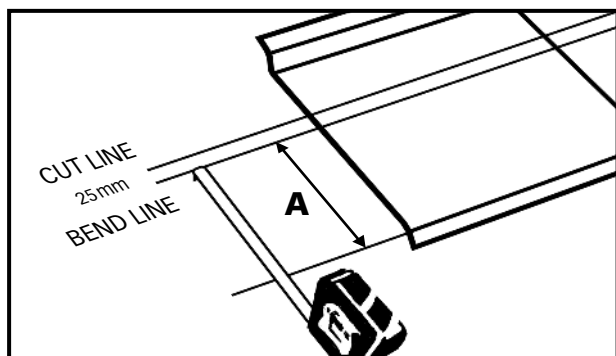

A

9 Measure the gap

If **gap A** measures **more than 200mm** you will need to fit **Tiles** by cutting and bending. See instructions 10 - 14.
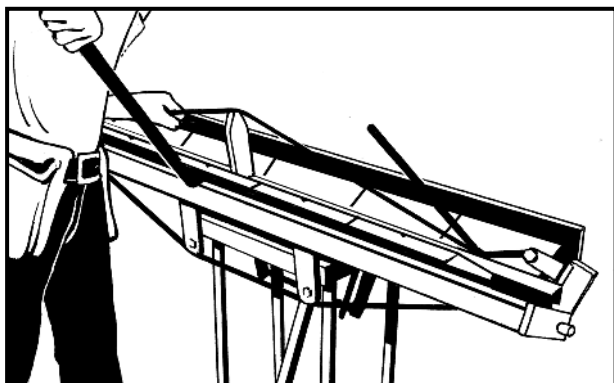
If **gap A** is **less than 200mm** you can optionally fit a **Top Course**. See instructions 15 and 16.

CUT LINE
25mm
BEND LINE
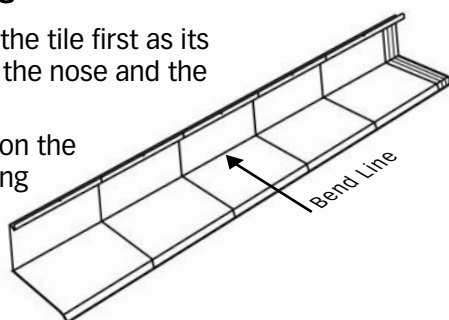A

10 Marking Tiles for bending and cutting

Measure from the front of the tile and mark a line on the tile where your Bend Line is to be. Mark a line approximately 25mm above this, which will be your Cut Line (see 13).
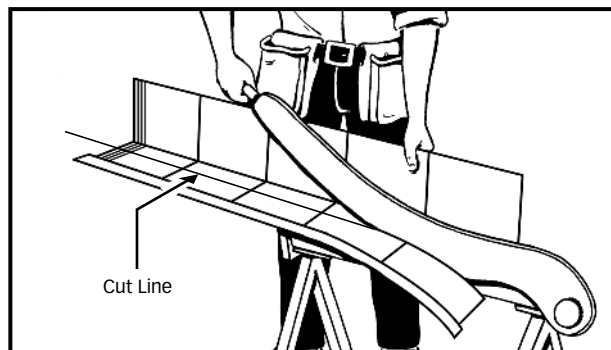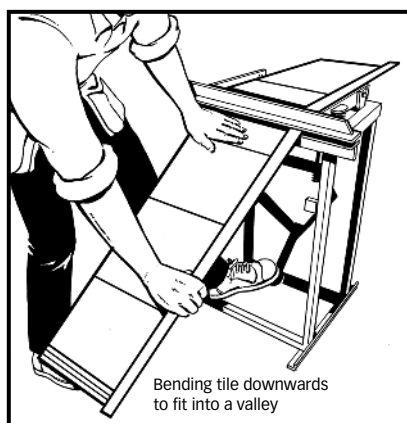

11 Bending Tiles

Always bend the tile first as its strength is in the nose and the rear upstand.

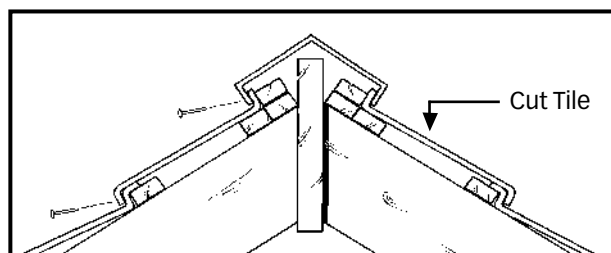Bend the tile on the Bend Line using the bending equipment.

Bend Line

12 Bending Tiles for Hips and Valleys

Using the bending equipment bend the tiles upwards for Hips (see 20) and downwards for Valleys (see 21).

Bending tile downwards to fit into a valley
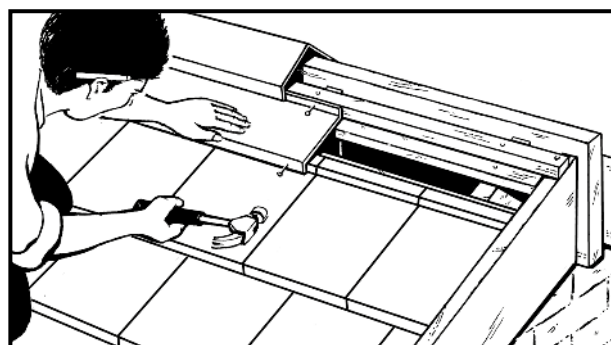

Cut Line

13 Cutting tiles using guillotine

Cut off waste along the Cut Line with guillotine. You can alternatively use snips if necessary.

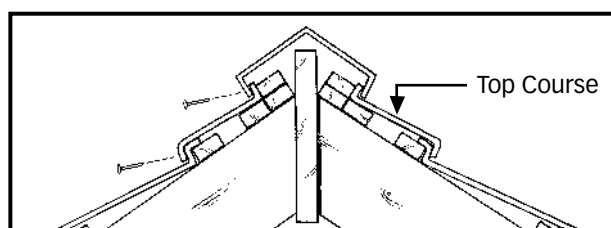
Cut Tile

14 Ridge detail using pre bent Tile

Ridge detail and layout using pre bent tile.

15 Attaching a Top Course

Cut and bend a top course to fit the gap and attach.

Top Course

16 Ridge detail using Top Course

Ridge detail and layout using top course.

metrotile
LIGHTWEIGHT ROOFING

FITTING BARGE BOARD COVERS

18 Nailing points for Barge Board Covers

Nail Barge Board Cover to barge board as shown. Use 3 nails along length on both sides.

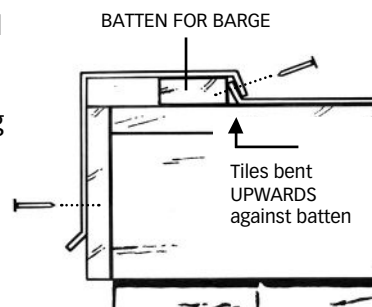BATTEN FOR BARGE

Tiles bent UPWARDS against batten

17 Attach Barge Board Covers

Measure and cut Barge Board Cover leaving overlap for finishing at end. Attach batten as shown in 18. Bend tiles upwards 30mm against batten and attach Barge Board Cover to barge board and batten. Attach nails as shown in 18.
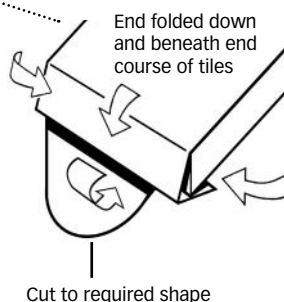
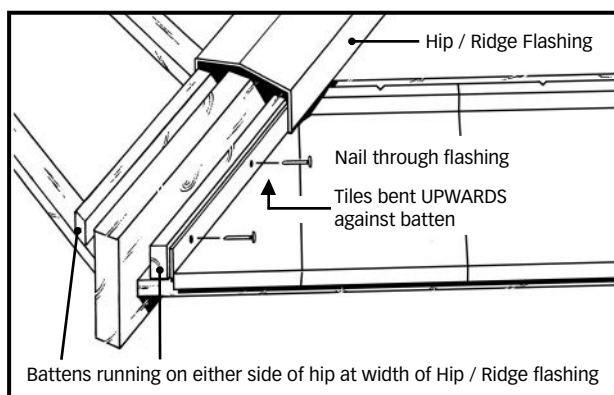End folded down and beneath end course of tiles

Cut to required shape

19 Finishing off ends

Finishing off Barge Board Cover ends can vary depending on the final look required. Using snips, cut and bend the cover as required making sure all corners and edges have underlapping flaps to make watertight.
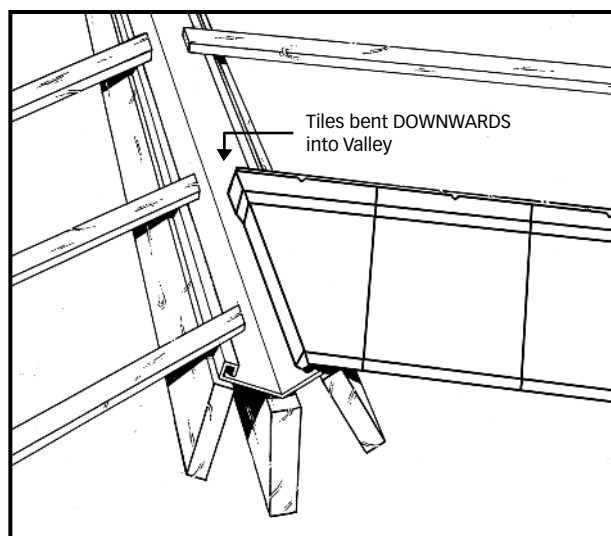
FITTING TILES TO HIPS AND VALLEYS

Hip / Ridge Flashing

Nail through flashing

Tiles bent UPWARDS against batten

Battens running on either side of hip at width of Hip / Ridge flashing
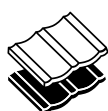
20 Fitting Tiles at Hips

Fix tile battens on either side of Hip (running up the length of the hip and approx 210mm apart measured from outside of batten to outside of batten) at the width of the hip flashing.

Tiles should be cut to the rake of the Hip and bent up against batten & fixed securely. Hip flashing should be then fixed by nailing through the flashing and into the battens through the upstand of the tiles using 2 nails per side.

Tiles bent DOWNWARDS into Valley

21 Fitting Tiles to Valleys

Tiles should be cut at the rake of the Valley (over hanging into the Valley gutter) and bend downwards into the Valley to prevent wind blown water. Tiles should be fixed into tiling battens as close to the Valley as possible.

metrotile
LIGHTWEIGHT ROOFING