

Redland

RAPID FLASHING

Basic installation guide



INTRODUCTION

Rapid Flashing is easy and quick to install, giving consistent application and peace of mind from the Redland Roof system guarantee.

Rapid Flashing is a simple alternative to lead for the majority of pitched roof applications. Rapid Flashing's self-fusing capabilities remove the need for difficult welding and boss details. Rapid Flashing utilises the same principles of lead details by matching the dimensions of water line and overlaps.

Rapid Flashing is a non-toxic product. This removes the need for regular blood tests that are required when working with lead.

CONTENTS

Profile Tile Installation	4
Slate Range Installation	7
Plain Tile Installation	11

PRODUCT DESCRIPTION

Rapid Flashing is a lightweight, UV resistant and strong product thanks to its unique Polyisobutylene coating and aluminium mesh structure. In addition, it is easy to mould to the profile of the tile.

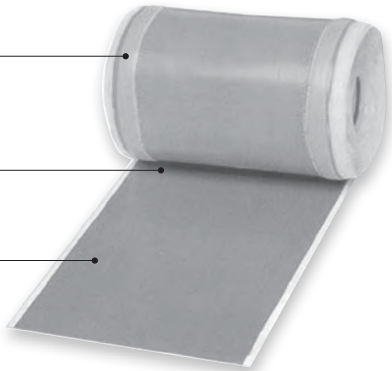
Working Methods

Installation requires the use of simple tools: chase wedge, roller and scissors.

Aluminum rib mesh

Mid grey (lead colour)

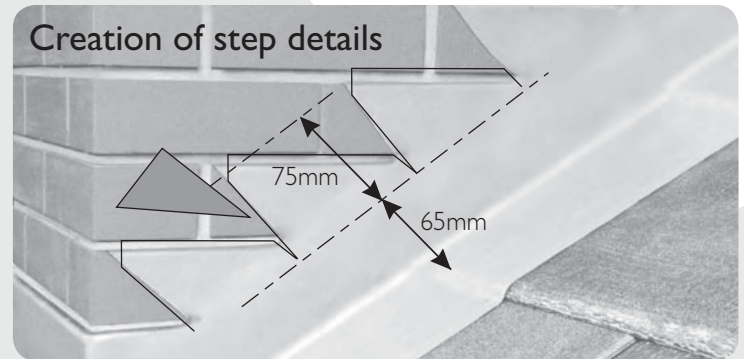
Self fusing, hence no welding required



TECHNICAL DATA

Material	Polyisobutylene (PIB) with high quality aluminium rib mesh insert and butyl adhesive edges
Temperature stability	-40°C to +100°C in accordance with DIN 52133
UV-resistance	In accordance with DIN 16726 and DIN 16731
Colours	Mid grey (lead colour)
Width	280mm and 370mm
Weight	280mm x 5m roll: approx. 5kg 280mm x 10m roll: approx. 10kg 370mm x 5m roll: approx. 7kg

Creation of step details



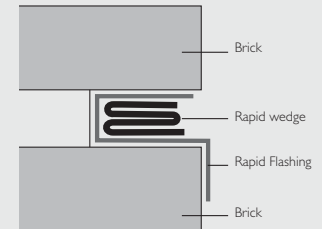
DESIGN CONSIDERATIONS

Joints

Abutment Flashing laps should not be less than 50mm increasing to 200mm for exposed locations.

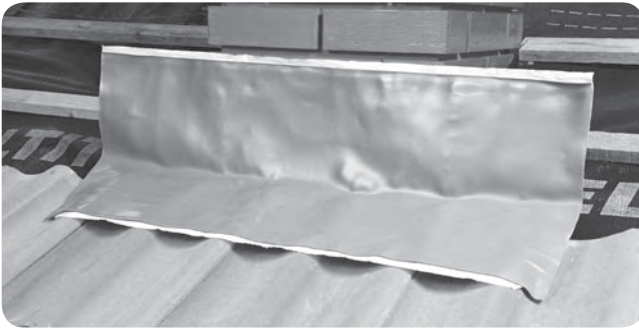
Wedges

Wedges are strips of Rapid Flashing folded several times to suit the thickness of brickwork joint. Wedges are used to retain the step flashing in place until secured by pointing. The wedges are driven into place by a wooden plugging chisel so as not to damage the Rapid Flashing.



Rapid Flashing should be installed in dry conditions.

PROFILE TILES



- 1 Cut a piece of Rapid Flashing so that it extends either side of the side abutment/ chimney by minimum 150mm or over a full pan and roll whichever is the greater and has a minimum upstand of 75mm.



- 2 Add in next course of tiling. Fold material into the profile of the tile and stick the base down. To form the corner, cut from the outside corner diagonally to the side abutment/ chimney corner, stopping short by 15mm. **For Side Abutment:** Follow steps 2- 8 and if an apron is required include step 1.

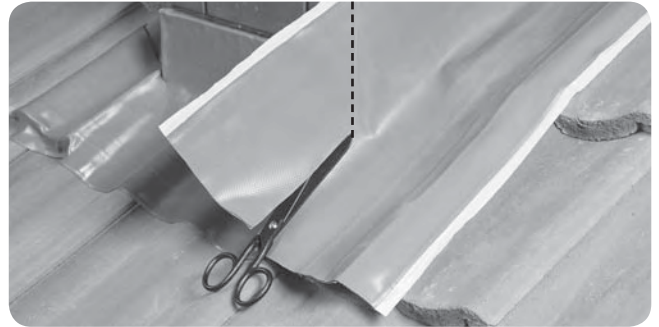


- 3 Return the top section around the side abutment/ chimney. Fold into brickwork forming a cup shape in the brick joint. Fold the lower section down onto the tile, form into the profile of the tile and stick down.

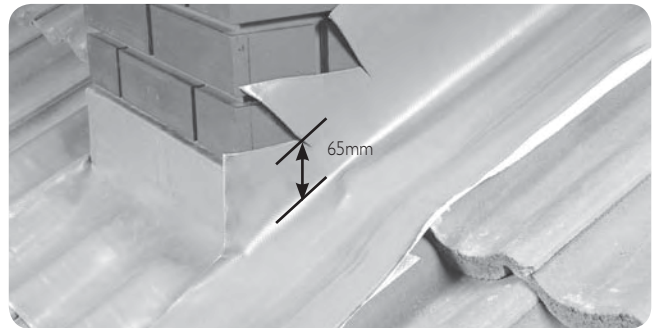
PROFILE TILES



- 4 Cut a piece of Rapid Flashing to the length of the side abutment/ chimney. Ensure that the bottom edge is lined up with the bottom of the apron. The top edge should extend beyond the back of the side abutment/ chimney by 35mm.

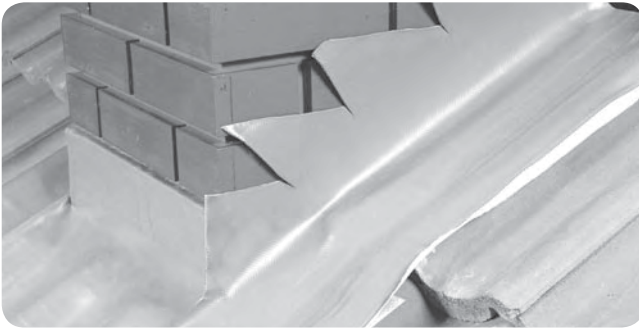


- 5 Place side piece so that it covers the tile by 150mm or by one pan and roll, whichever is greater. Mark out 15mm from the corner of the chimney, draw a line down vertically, then down the line of tiles, leaving 15mm extra material on both edges. Cut this piece out.

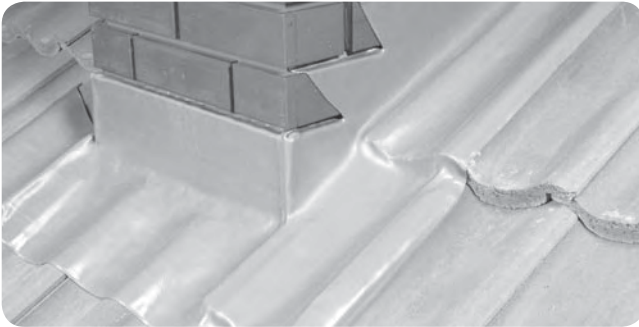


- 6 Form the step as you do with lead. With the step the same angle as the roof pitch, cut back to the water line (65mm). Ensure at least 25mm excess is left to be turned into the brickwork joint.

PROFILE TILES

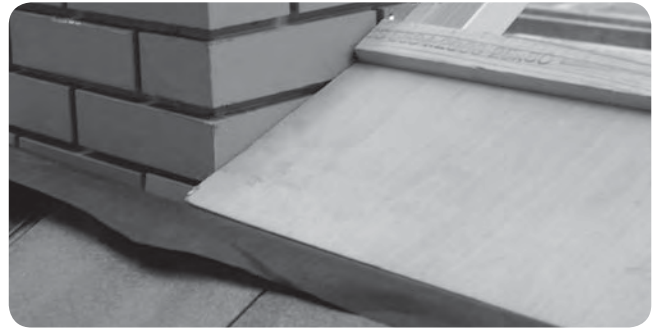


- 7 Once the steps have been cut start moulding the membrane to the profile of the tile. Return the 15mm up-stand around the front of the side abutment/chimney to form the front corner. Use a roller if necessary to seal the seam.

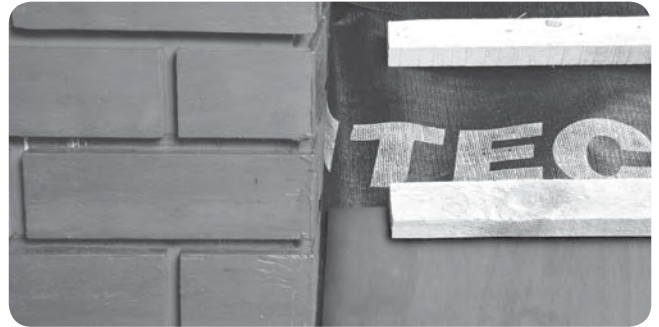


- 8 Once steps have been turned into the brick joints, peel protective strip off and mould into the profile of the tile. Once finished use a plumbers sealant to bed the joints in. For back gutter follow steps 11-15 in the Plain Tile section.

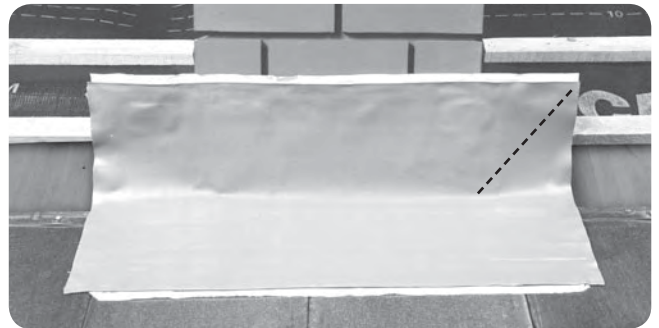
SLATE RANGE



- 1 Fix additional noggins to side of rafter to support batten end fixing. Install underlay as normal. Fit a plywood fillet to the rafter to the height of the tiling batten.



- 2 Batten up to the side abutment/chimney, leaving battens 60mm short to allow for secret gutter. **For Side Abutment:** Follow steps 2-12 and if an apron is required include step 1.

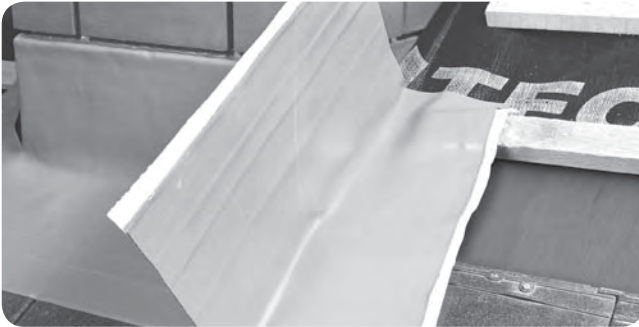


- 3 Cut a length of Rapid Flashing so that it extends beyond the width of the side abutment/chimney by minimum 150mm each side. Measure out 15mm from corner of side abutment/chimney up to the external corner of Rapid Flashing and cut.

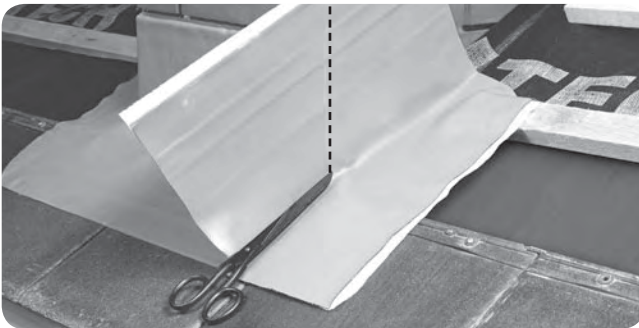
SLATE RANGE



- 4 Fold the material round the corner of the side abutment/chimney. Trim off the apron corner if so desired. Peel off protective strip and stick down. Fold the Rapid Flashing into the brickwork (forming a cup section in the brick joint).

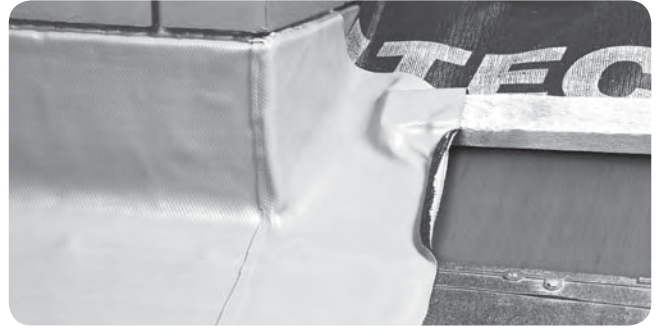


- 5 Cut a section of Rapid Flashing 460mm long. Offer this section up and bend so that it covers the slate by a minimum of 150mm. **For Side Abutment:** Only required if secret gutter is not terminated into a gutter but onto a slate. (5,6 and 7)

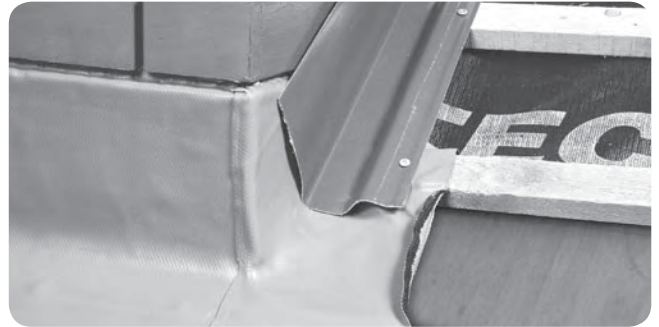


- 6 Mark 15mm out from the front of the chimney and draw a vertical line, stopping 15mm short from the face of the slate.

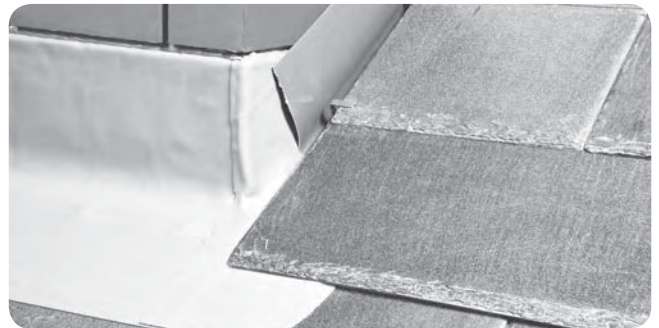
SLATE RANGE



- 7 Form the corner, pressing hard with your thumb. Once the corner is formed, ensure the shape of the secret gutter is formed. Welt over the side of the soaker. Once in position stick down.

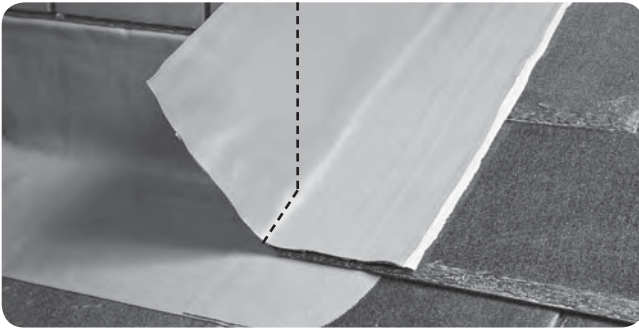


- 8 Cut a section of GRP Gutter (9596) so that it is level with the back of the chimney and has a head lap over the soaker of 150mm. Fix the secret gutter to the battens using 25mm galvanised clout nails. (If using Cambrian Slate fix Verge clips (9193) at this point). **For Side Abutment:** Fix the GRP gutter (9596) to the full length (150mm if lap required).

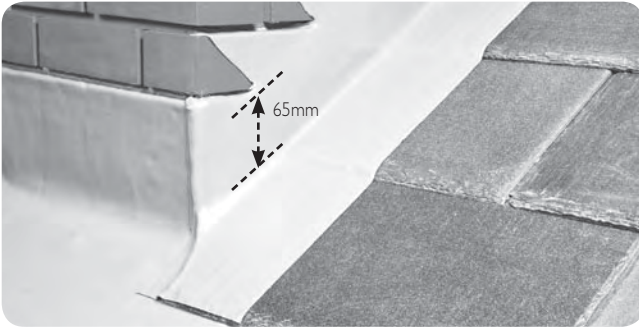


- 9 Slate into the side abutment leaving the slates 20mm from the abutment. It may be necessary to remove the nib closest to the secret gutter.

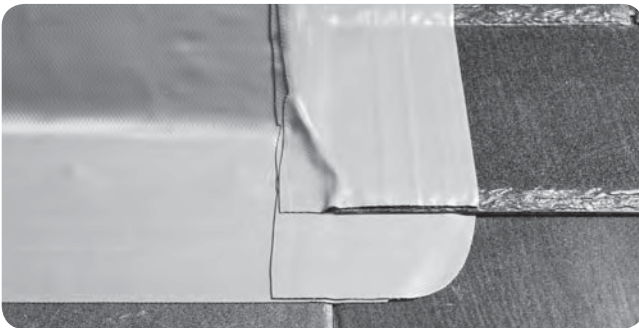
SLATE RANGE



- 10 Cut a piece of Rapid Flashing to the length of the chimney, extending 35mm beyond back of chimney. Measure out 15mm from front of chimney and draw a line vertically, then a line following the angle of tiling. Cut this section out (do not stick at this point).

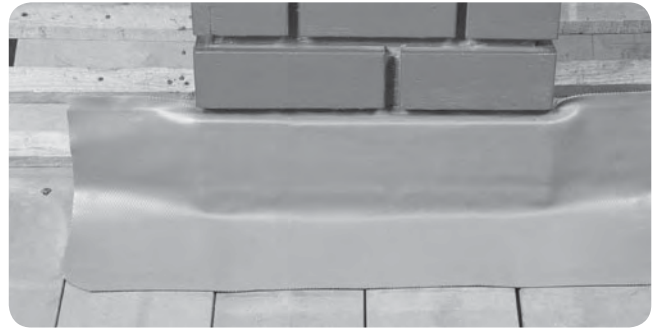


- 11 Form step flashing working to a minimum water line of 65mm (as shown). Step into brickwork, folding excess into the joint by forming a cup section in the brick joint.

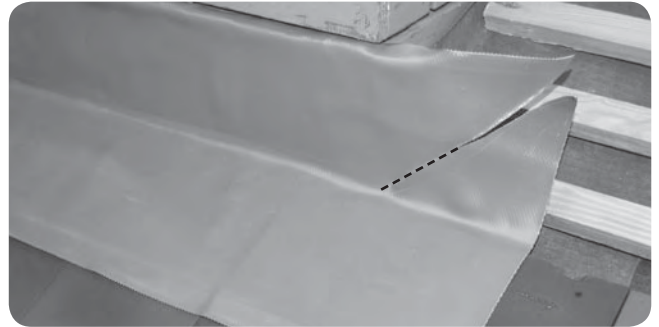


- 12 Stick down and follow contour of slate.
IMPORTANT: Do not let the side flashing go beyond the end of the slate. A weep hole is left at this point. To form back gutter follow steps 9-15 in the Plain Tile Section. Use plumbers sealant to bed joints.

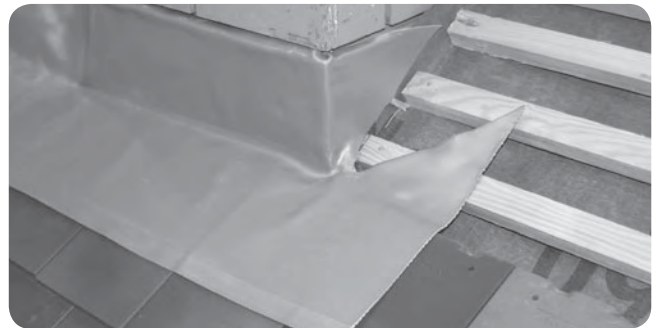
PLAIN TILE



- 1 Cut a piece of Rapid Flashing long enough to extend a minimum of 150mm either side of the chimney. It should extend over the tiles by a minimum of 150mm and have a minimum up stand of 75mm.

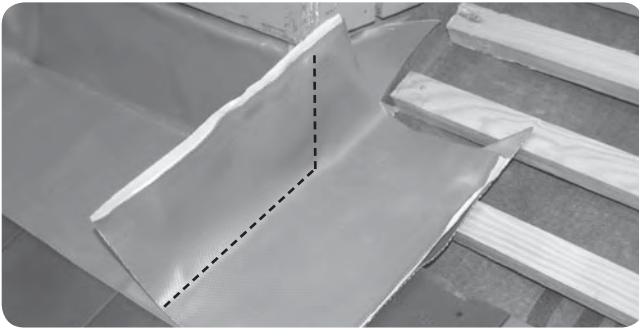


- 2 Measure 15mm out from the brickwork in the bottom corner and draw a line up to the external corner. Cut along this line.

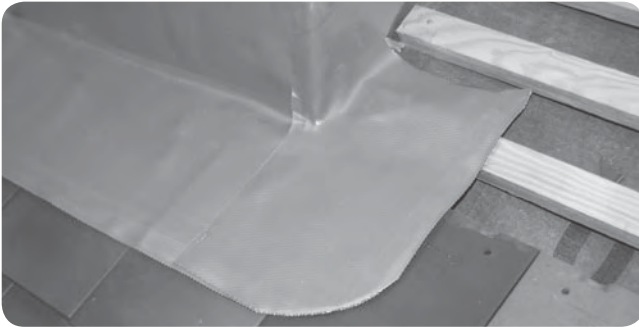


- 3 Fold the top section around the corner of the side abutment/chimney and form into the brick joint. Fold the lower section down onto the tiles.

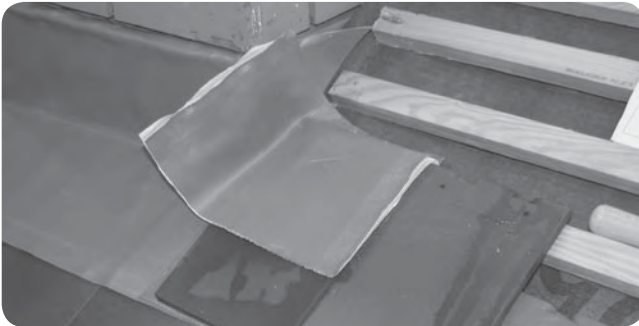
PLAIN TILE



- 4 Cut a piece of Rapid Flashing 300mm long to finish off the front apron. Mark out 15mm from the corner of the chimney and draw a line vertically then down the line of the tiles. Cut this piece out.

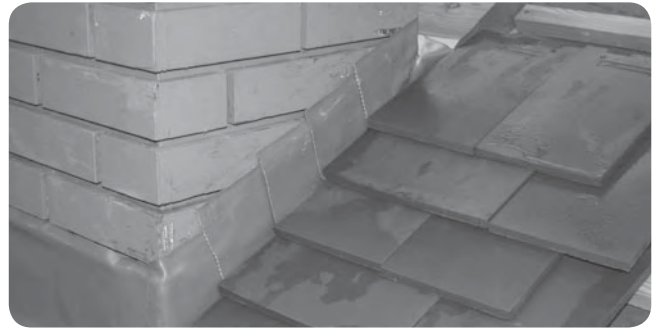


- 5 Mould the 15mm return around the front of the side abutment/chimney, then using a roller firmly press together to form a bond. Round the corners neatly and repeat the other side.

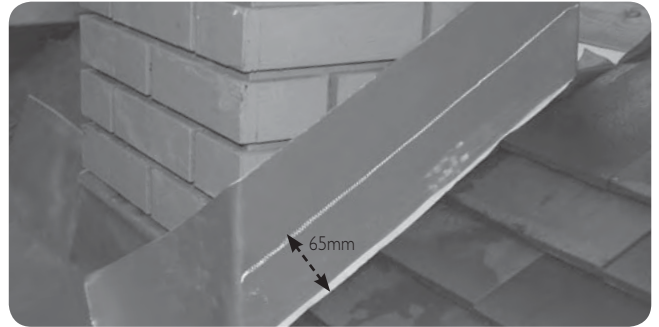


- 6 Tile the next course, then cut a piece of Rapid Flashing 195mm long. Offer up to the chimney ensuring the soaker covers the tile by a minimum of 120mm. Form into the brick work and stick down (the soaker should not show beyond the length of the tile).

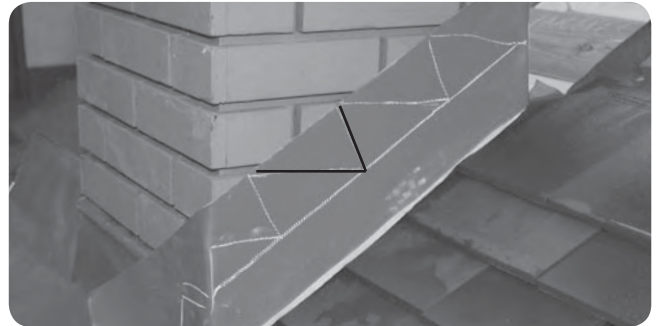
PLAIN TILE



- 7 Continue like this until the abutment is complete.

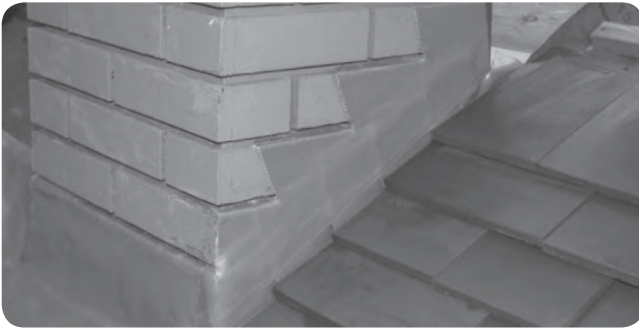


- 8 For the step flashing, measure out a piece of Rapid Flashing so it extends about 40mm beyond the back of the chimney and 100mm in front. (you will need to cut down the roll of 370mm wide Rapid Flashing so you have a piece 300mm wide). Measure 65mm from the bottom and draw a line (Waterline). Nothing must be cut below this mark.

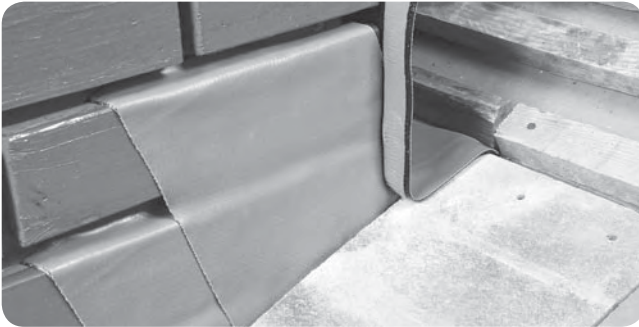


- 9 Mark the top of the brickwork and take the line across to your Waterline. Join the top of line up to the bottom of the next line so it looks like steps. Mark another line 20mm above the horizontal lines, this will be your cut line.

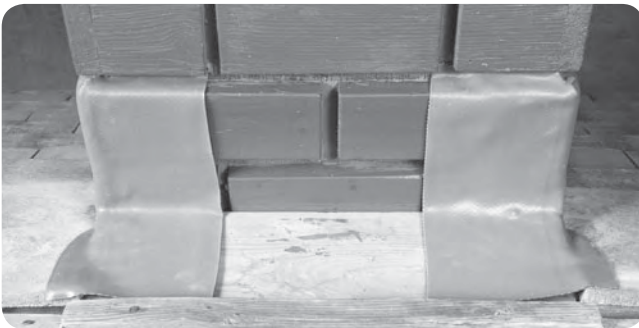
PLAIN TILE



- 10 Once you have cut out the sections you don't need, fold the 20mm into the brickwork, then use the roller to make sure everything is laid flat and is stuck down.

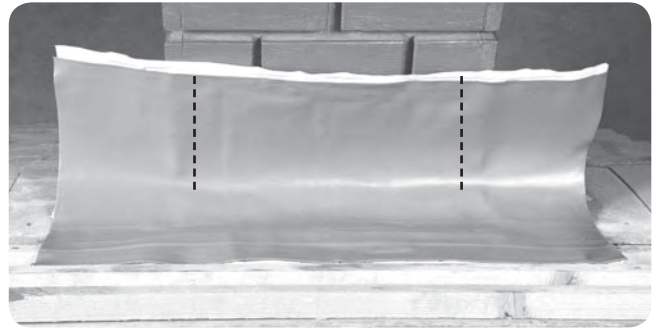


- 11 To weather the back gutter corner cut a piece of Rapid Flashing 260mm long and cut this piece in half following the line of the butyl strip.

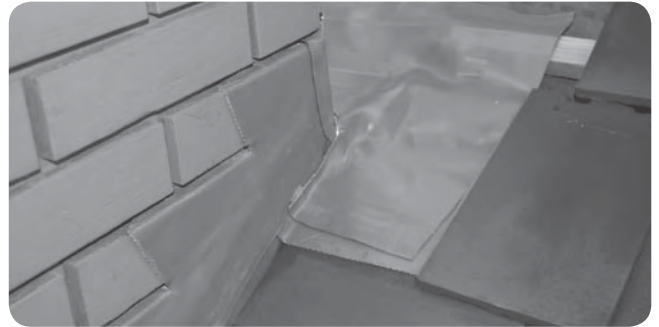


- 12 Take these pieces of Rapid Flashing and fold them up to the brick joint being used, minimum up stand is 100mm. Fold round the side of the chimney the width of the butyl, see above.

PLAIN TILE



- 13 Cut a piece of Rapid Flashing long enough to extend beyond the chimney either side by 150mm. Measure in 10mm from the outer brickwork. Draw a line vertically, and cut. Ensure tilting fillet is in place to form the back gutter.



- 14 Fold the flap round and down the tiles and form into the brick joints as before. Will need to add another piece of Rapid Flashing to extend it up onto the lay board and tilt fillet. Use the roller to mould into place. Once the back gutter is in place turn the side edge over on itself to create a 20mm welt.



- 15 Use plumbers sealant to bed in joints.

Note: If at any time the Rapid Flashing is not wide enough, it can be welded together to increase the width. When joining two pieces of Rapid Flashing together, press firmly using a roller to ensure seams are welded.

Redland

www.redland.co.uk

Customer Service Hotline

For all sales enquiries/orders, call or fax the Redland Customer Service Hotline and you will be connected to the customer services representative dealing with your area.

Telephone 08705 601000*
Facsimile 08705 642742
E-mail sales.redland@monier.com

Technical Solutions Hotline

For technical enquiries please contact Technical Solutions directly.

Redland Technical Solutions, Monier Ltd,
Broadway Lane, South Cerney, Cirencester,
Gloucestershire GL7 5UH

Telephone 08708 702595
Facsimile 08708 702596
E-mail technical.redland@monier.com

* When calling the Customer Service Hotline your telephone conversations may be recorded for training purposes.