



INSTALLATION **MANUAL**

CF SLATE ON BATTENS

This installation guide outlines the recommended installation method for Gerard's CF Slate product range on battens. While this guide covers the majority of commonly referred-to roof details, it does not cover all areas of each individual roof. If uncertain of any roof detail, please contact us.

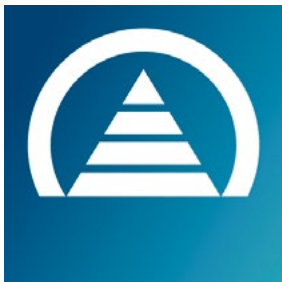
Please note that local building codes may have additional requirements not outlined in this document and will supersede these installation recommendations.

To get the best performance from your roof we recommend referring to our Roof Maintenance Guide and Gerard Warranty documents.

Important note for Australian installations

This installation guide is based on installation in accordance with the New Zealand Building Code. For installation within Australia, this manual must be used in conjunction with the Installation Addendum which further outlines Australian-specific requirements.

Please note that local building codes may have additional requirements not outlined by Gerard and will supersede the installation recommendations outlined in this manual and the Installation Addendum.



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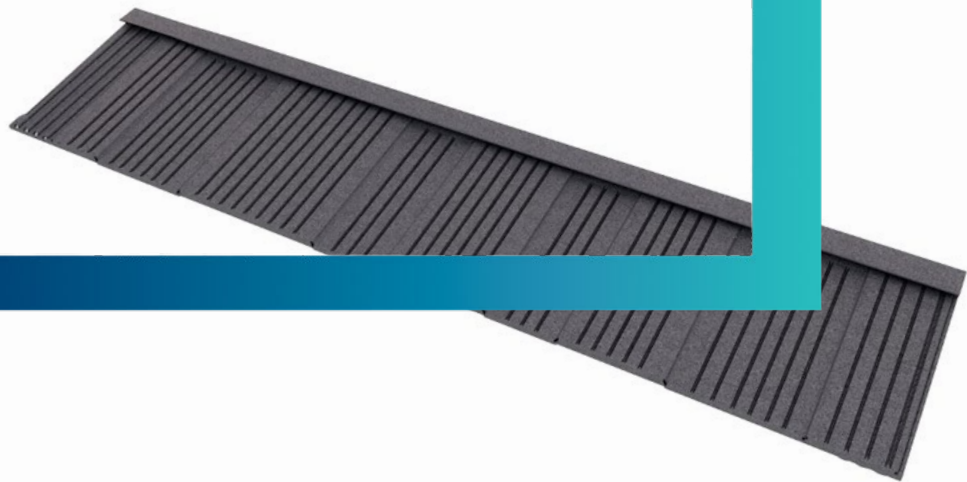
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01. PRODUCT INFORMATION



INSTALLATION MANUAL CF SLATE ON BATTENS

PRODUCT SPECIFICATION

CF SLATE



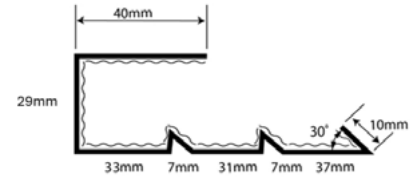
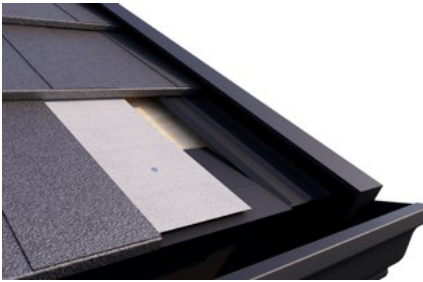
Overall Length	Cover Length	Width	Cover Width	Panels/sqm	Weight	Minimum Roof Pitch
1340mm	1250mm	295mm	250mm	3.2	6.4kg/sqm	15 °

FASTENING REQUIREMENTS

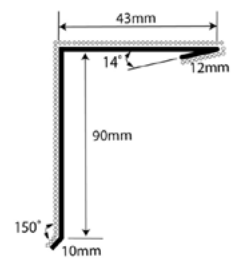
INSTALLATION OVER BATTENS		
Panel fastenings in Wind Zone up to and including High	8 nails/panel or 5 screws/panel	25mm x 3.05mm ring shank galvanised coil nails or #10 1-1/2 inch screws
Panel fastenings in Wind Zone up to and including Extra High	10 nails/panels or 5 screws/panel	25mm x 3.05mm ring shank galvanised coil nails or #10 1-1/2 inch screws

ACCESSORY OVERVIEW

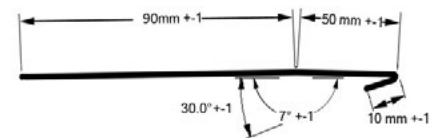
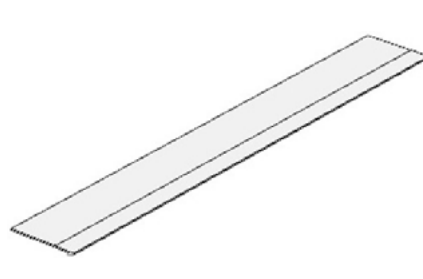
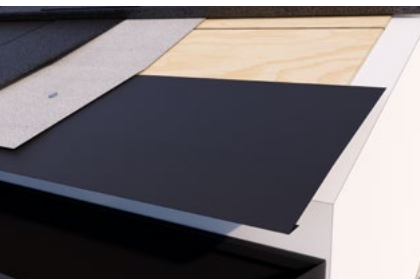
418 CF SLATE BARGE CHANNEL



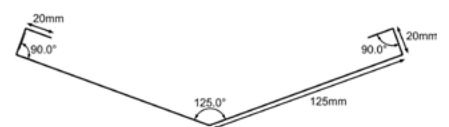
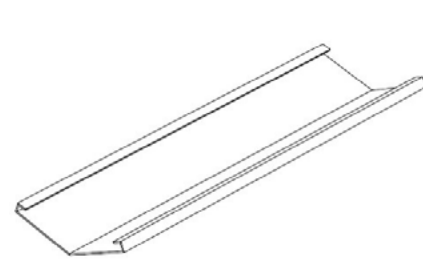
903 CF BARGE COVER



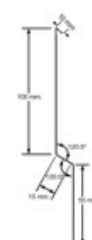
402 CF SLATE EAVES FLASHING



116 WIDE VALLEY

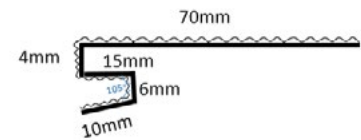
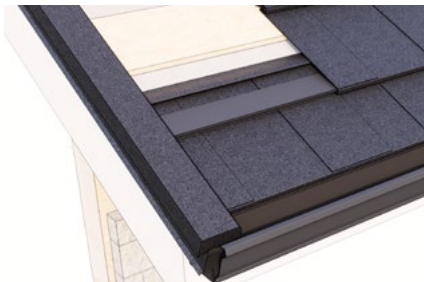


104 SIDE FLASHING



ACCESSORY OVERVIEW

417 CF SLATE SHORTCOURSE



904 CF HIP UNDER CHANNEL

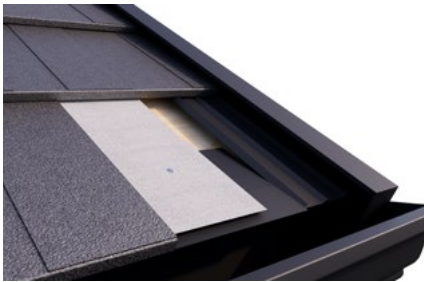


400 CF SLATE ANGLE TRIM



FASTENER DETAILS

418 CF SLATE BARGE CHANNEL



#10x1 1/2" screws with washers OR
8D ring-shank sealsure nails

6x @300mm centres

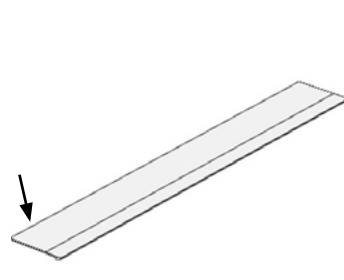
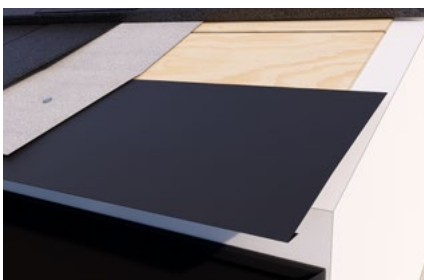
903 CF BARGE COVER



#10x1 1/2" screws OR
50mm 8D ring-shank nails

3x (1 at each lap, 1 in the middle)

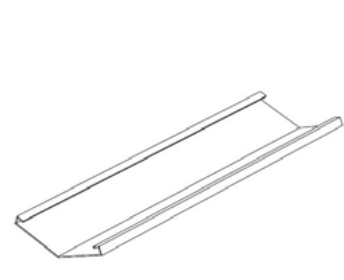
402 CF SLATE EAVES FLASHING



#10x1 1/2 " screws
50mm 8D ring-shank nails

8x @300mm centres

116 WIDE VALLEY



Valley is held in place with clip or nail bent over the top of the valley

104 SIDE FLASHING



#10x1 1/2 " screws
50mm 8D ring-shank nails

4x @ 500mm centres

FASTENER DETAILS

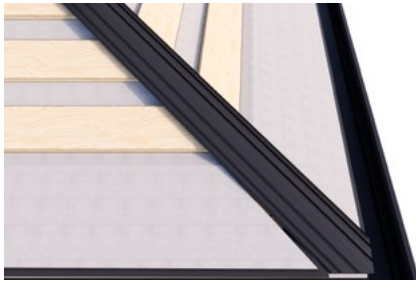
417 CF SLATE SHORCOURSE



#10x1 1/2 " screws
50mm 8D ring-shank nails

6x @ 300mm centres

904 CF HIP UNDER CHANNEL



#10x1 1/2 " screws with washers
8D ring-shank sealsure nails

6x @300mm centres

400 CF SLATE ANGLE TRIM



10G x 40mm long hex head needle point screws, hot dipped galvanised

1x each side

RECOMMENDED TOOLS



Tape Measure



Silicone Gun



Nail Gun



Hammer



Impact Driver or Drill



Soapstone



Snips



Bender



Handbender



Guillotine

WALKING ON PANELS

SAFETY

Soft soled shoes capable of providing secure footing should be worn. Extreme care is required when walking on wet panels and this should be avoided if possible.

DAMAGE

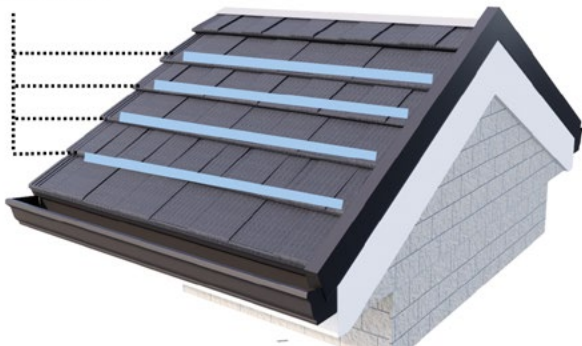
The surface coating of textured finish panels may be damaged when they are wet, and damage increases as the pitch increases.

When walking on the panels weight must be concentrated directly above the batten.

Panel damage will occur if installer weight is applied to panel ridges or midsections.

Areas suitable for walking on are highlighted below in blue.

Area to walk

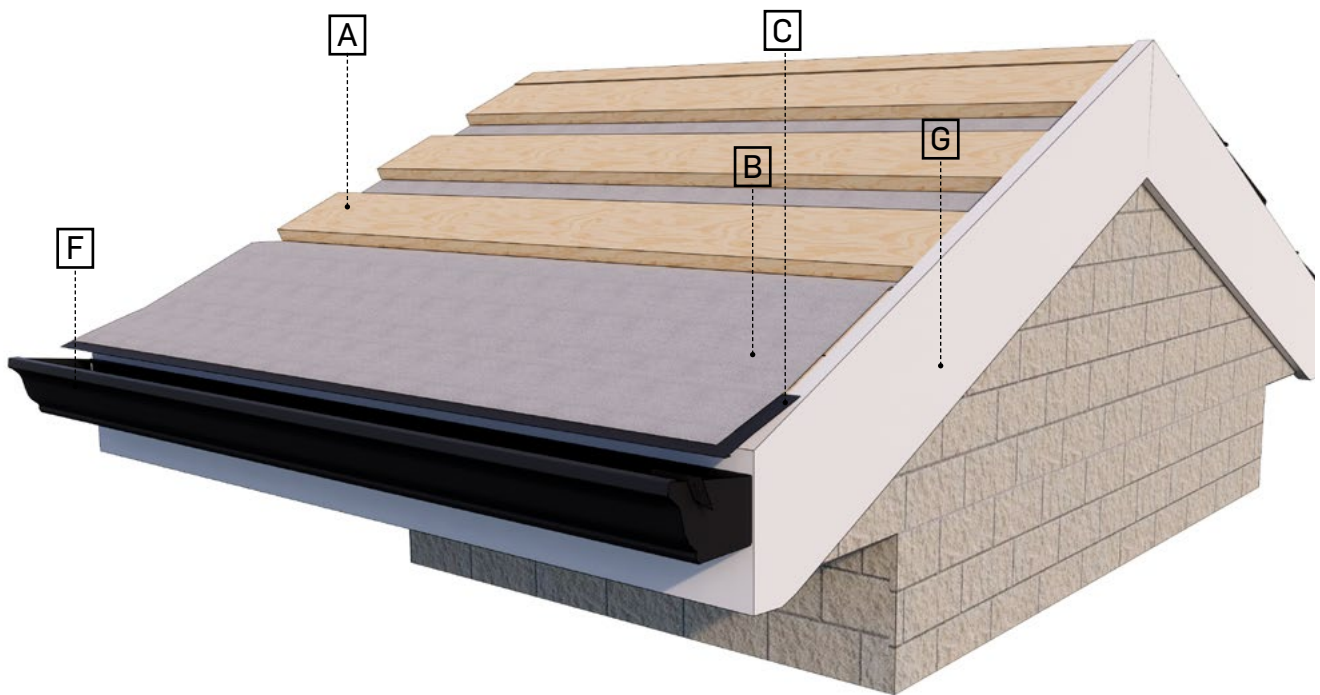


02. BATTEN SET OUT



INSTALLATION MANUAL
CF SLATE ON BATTENS

CF SLATE BATTEN LAYOUT

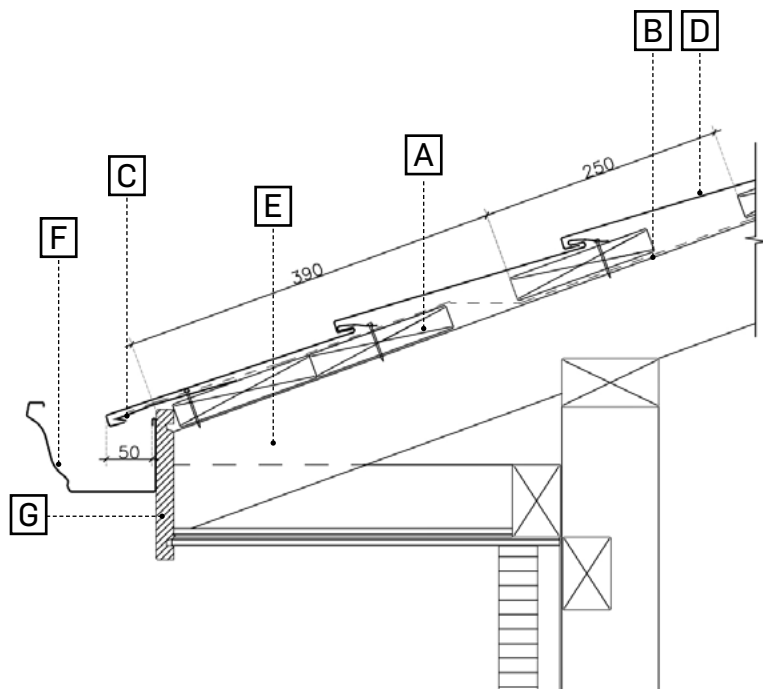


COMPONENTS

- A. 150x25mm battens
- B. Underlay
- C. 402 CF Slate Eaves Flashing
- D. CF Slate panel
- E. Rafter
- F. Gutter
- G. Fascia board

BATTEN SPACING

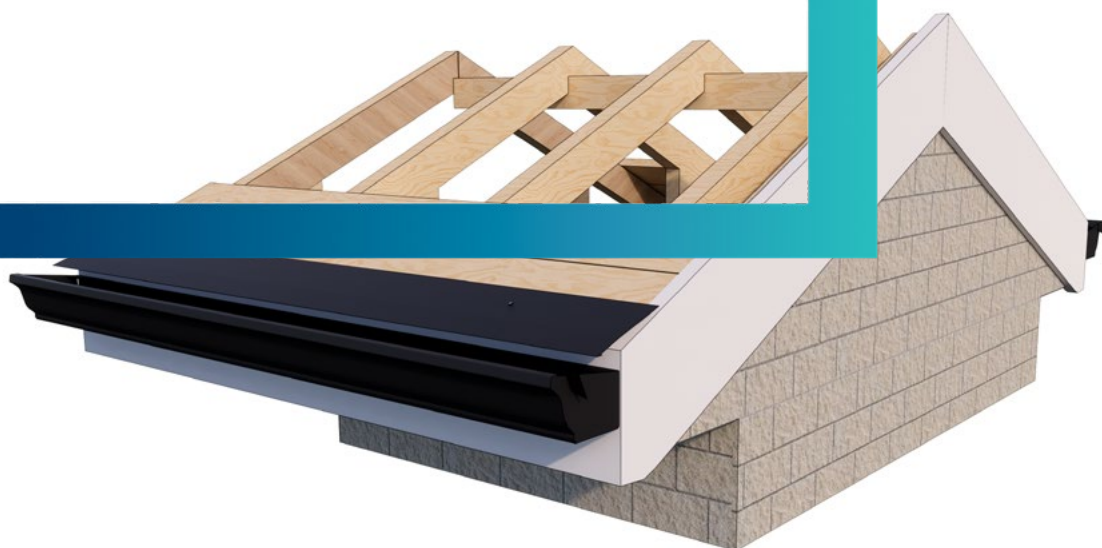
- 1st batten: Fix at fascia
- 2nd batten: Directly behind 1st batten
- 3rd batten: 390mm from front of fascia
- Subsequent battens: 250mm spacing



WIND ZONES

When fixed in accordance with Gerard's systems specifications, the CF Slate panel is suitable for use in all NZS 3604 wind zones, up to and including Extra High. In NZS 3604 Very High building wind zones, 150x25mm battens are to be secured using 2x90x3.15 power driven nails for the main & periphery roof areas. For Extra High Wind Zones 10g self-drilling screws (80mm long) must be used to fix battens to trusses.

03. EAVES INSTALLATION



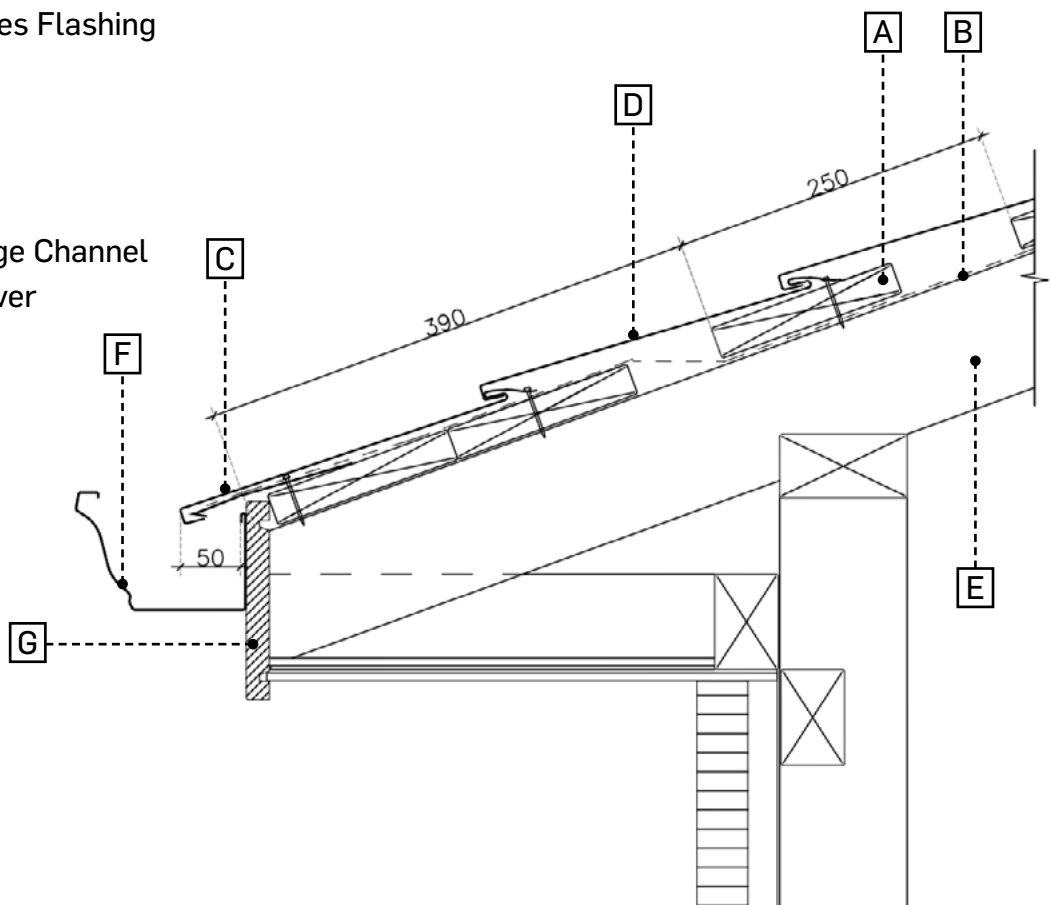
INSTALLATION MANUAL
CF SLATE ON BATTENS

EAVES DETAIL



COMPONENTS

- A. 150x25mm battens
- B. Underlay
- C. 402 CF Slate Eaves Flashing
- D. CF Slate panel
- E. Rafter
- F. Gutter
- G. Fascia board
- H. 418 CF Slate Barge Channel
- I. 903 CF Barge Cover



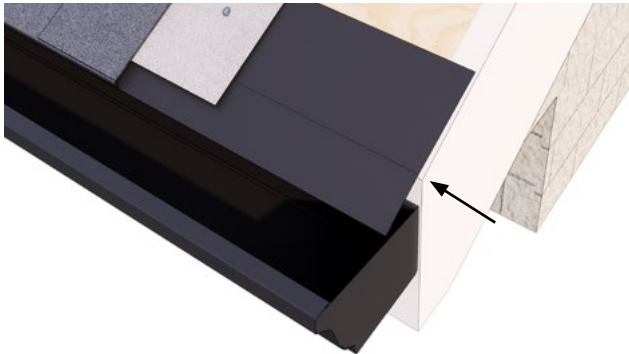
EAVES FLASHING INSTALLATION

SETTING OUT

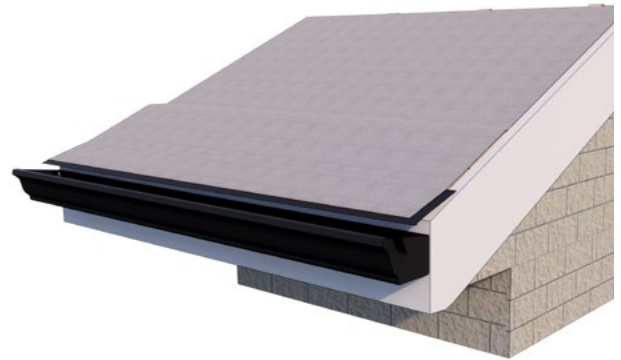
Install the first two rows of battens at the eaves.



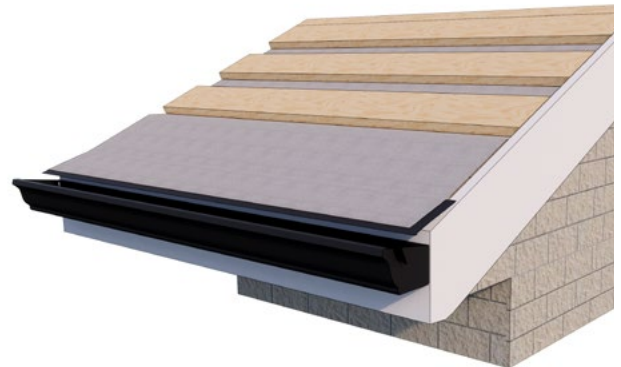
Fix the eaves flashing onto the first batten with a minimum 40mm overhang from the fascia into the gutter. This can be achieved by aligning the bend in the eaves flashing to the outside edge of the fascia. Fix with a fastener every 400mm across the eaves flashing.



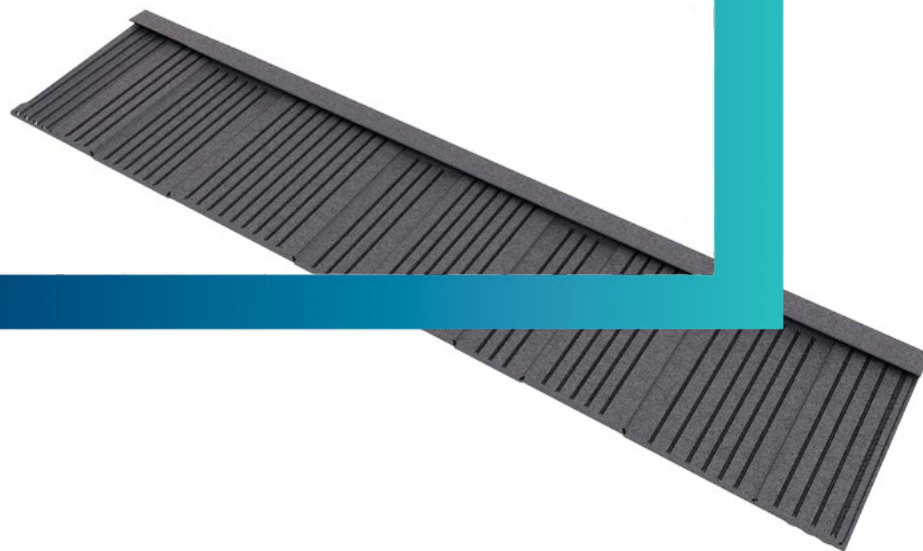
Pinout and fix underlay to the roof, with the overlay on top of the already fixed battens and eaves flashing. Underlay should finish 10mm short of the edge of the eaves flashing.



Finish installing battens up the plane of the roof.



04. PANEL INSTALLATION



INSTALLATION MANUAL
CF SLATE ON BATTENS

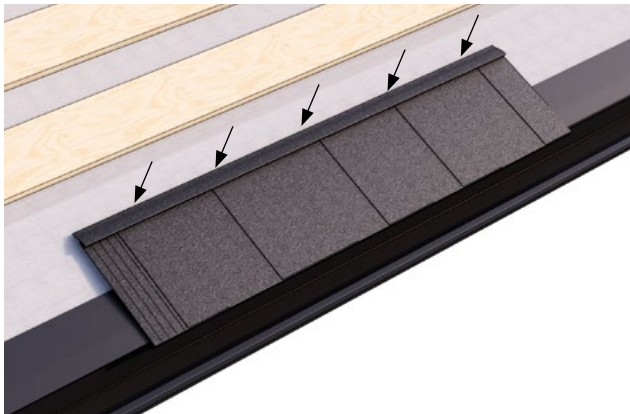
PANEL INSTALLATION

METHOD

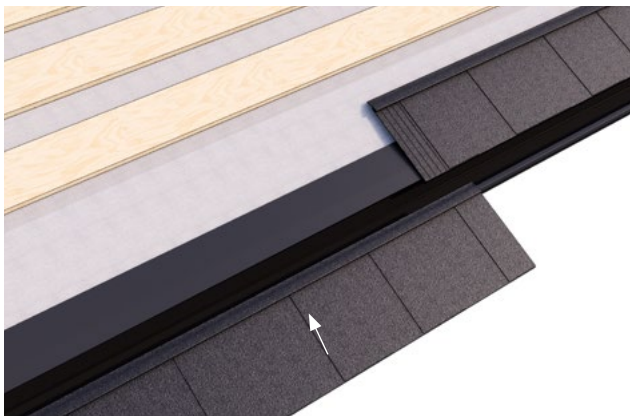
Hook the nose of the first panel to the already installed 402 CF Slate Eaves Flashing. Start from the right side of the course.



Secure the panel with five fasteners evenly spaced at the head of the panel.



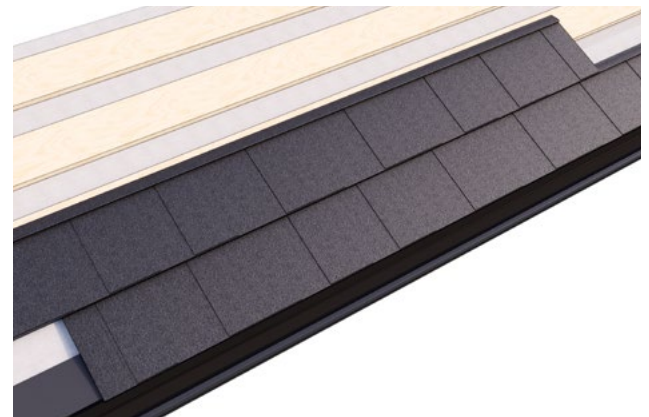
After installing the first panel, use the same method to fit the second panel over the first, overlapping at the weather channel. Push the panel upwards to secure in place, then fix with five fasteners.



After installing the first course, fit the second course by hooking the nose of the second course panel into the rear head check. Stagger the panels to give an irregular pattern across the roof.

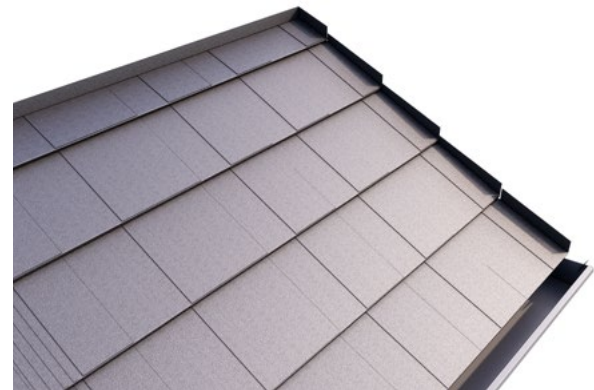
Push the panel upward to ensure full contact along the panel, then secure the panel with five fasteners.

Repeat across and up the plane of the roof.



UPSTAND

Turn up panels a minimum of 40mm at side walls and top course.



COMMON CUT GUIDE

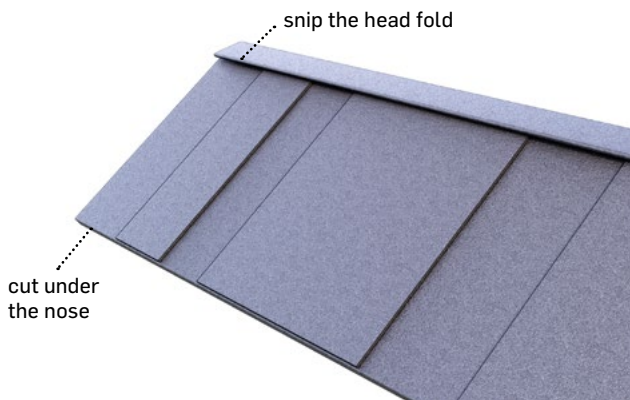
SIDE BEND

Cutting correctly for side bends is critical as crushing will prevent the next course from being able to interlock into the head of the panel.

Measure your bend line from the edge of the panel nose and head. There should be a minimum of 40mm from the edge.



Cut the fold of the panel's nose, cutting the underside only, then snip the head fold partway through.

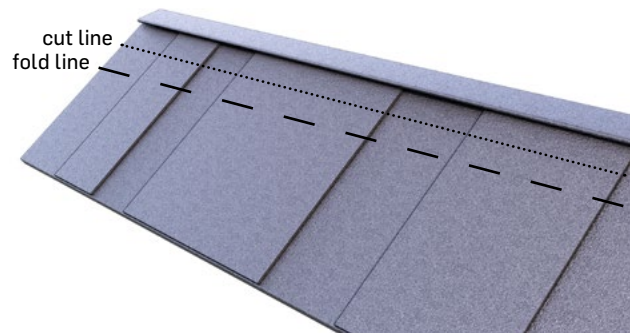


Then bend the side end of the panel to create a 40mm upstand. When installing the next course, add a bead of silicone to the join.



HEAD BEND

Measure your bend line from the nose of the panel up to the head of the panel. Mark out your cut line and your bend line. Your bend line should be a minimum of 40mm from the cut line.



Cut your panel along the cut line. Then bend the head of the panel to create a minimum of 40mm upstand against the wall or support nog.



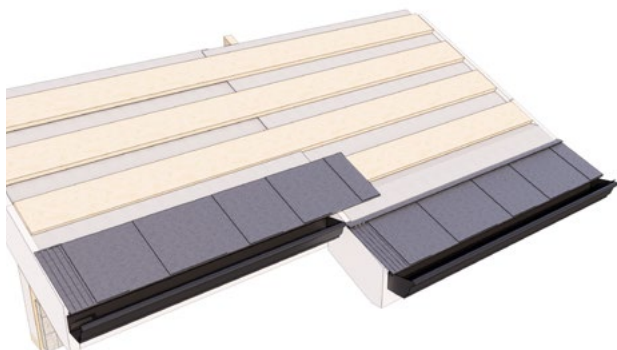
SHORT COURSE INSTALLATION

METHOD

Prepare your roof area by installing underlay, battens, fascia, gutter, and eaves flashing. Install full roof panels up to the change in roof eaves.



Measure and cut the head off the first course of panels at the short edge of the roof. The head should align with the head of the already-installed panels. Hook the nose over the eaves flashing and fasten in place.



Fasten the shortcourse flashing in place, in alignment with the head check of the already-installed panels.



Install the second course of panels.



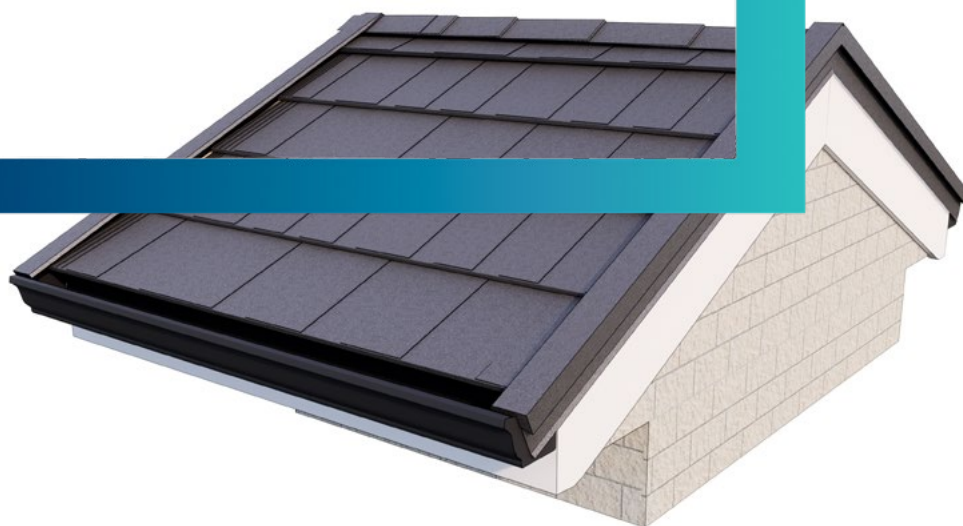
Install the rest of the panels and then finish with the barge cover and ridge trims.



See below for a cutaway of the shortcourse setup.

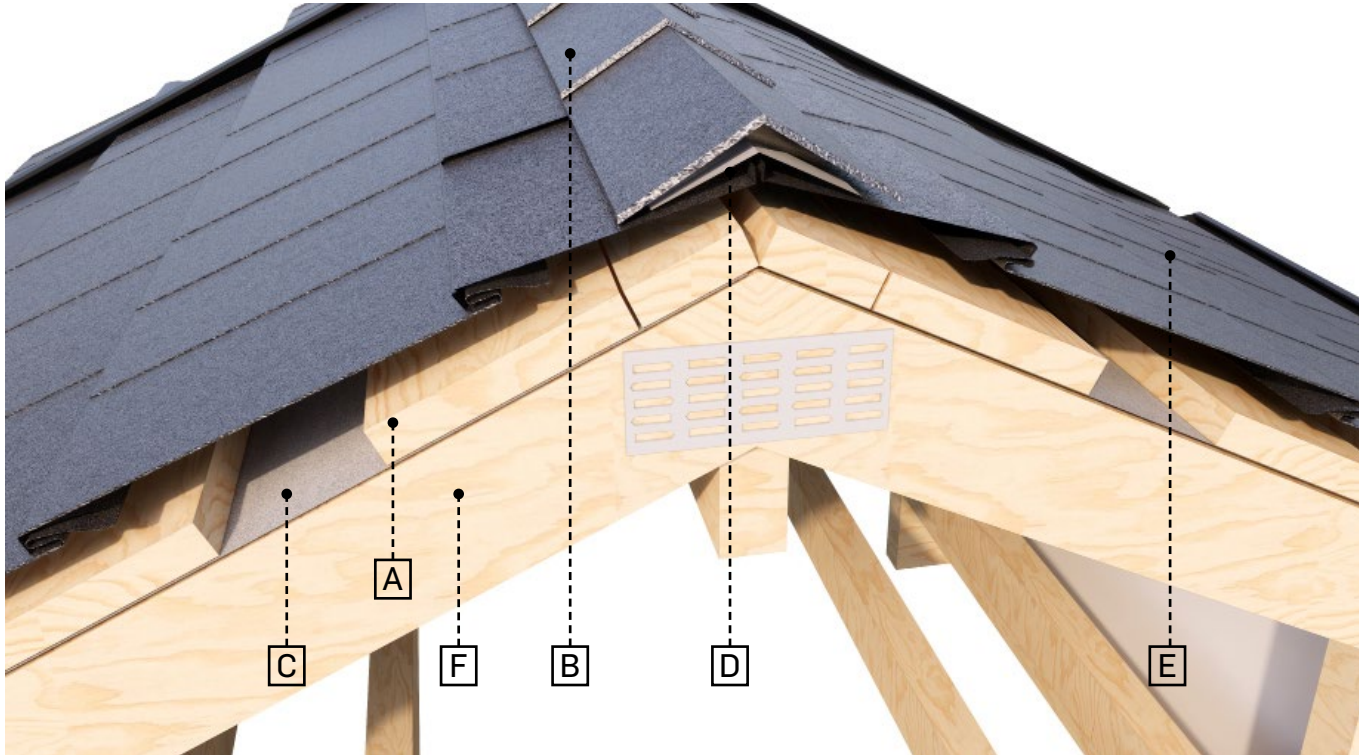


05. AREA SPECIFIC DETAILS



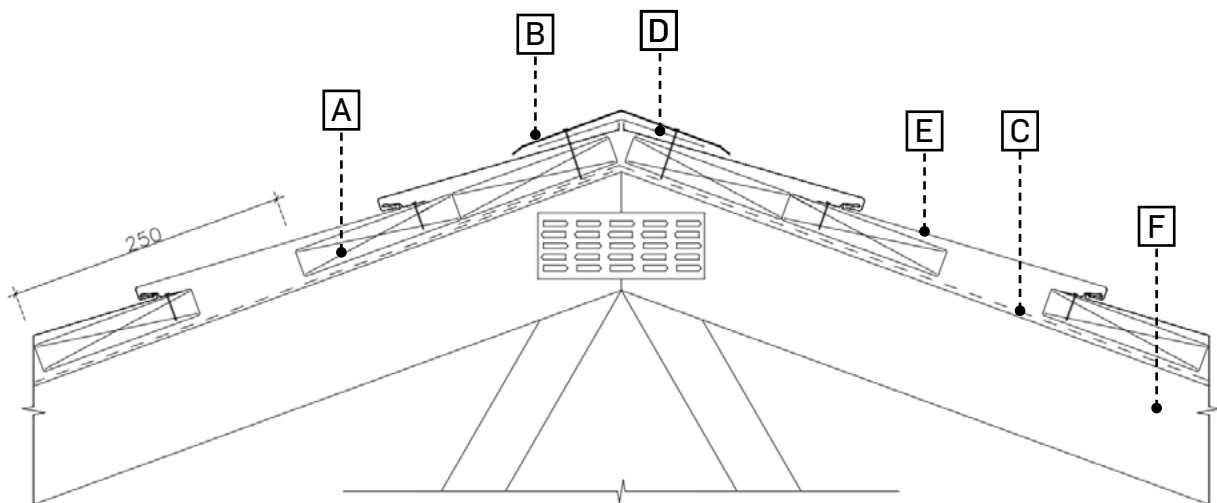
INSTALLATION MANUAL
CF SLATE ON BATTENS

RIDGE DETAIL



COMPONENTS

- A. 150x25mm battens
- B. 400 CF Slate Angle Trim
- C. Underlay
- D. Flexible flashing tape 150mm*
- E. CF Slate panel
- F. Rafter



*Flexible flashing tape to be supplied by RoofTG Pacific Ltd

RIDGE INSTALLATION

SETTING OUT

Lay out your first two rows of battens at the eaves as specified in the Batten Set Out section.



Install the eaves flashing.



Install underlay across the roof and fasten 150x25mm battens over the underlay. Underlay should be draped over the top of the already-installed battens at the eaves.



TILE INSTALLATION

Install barge channels at the barge.



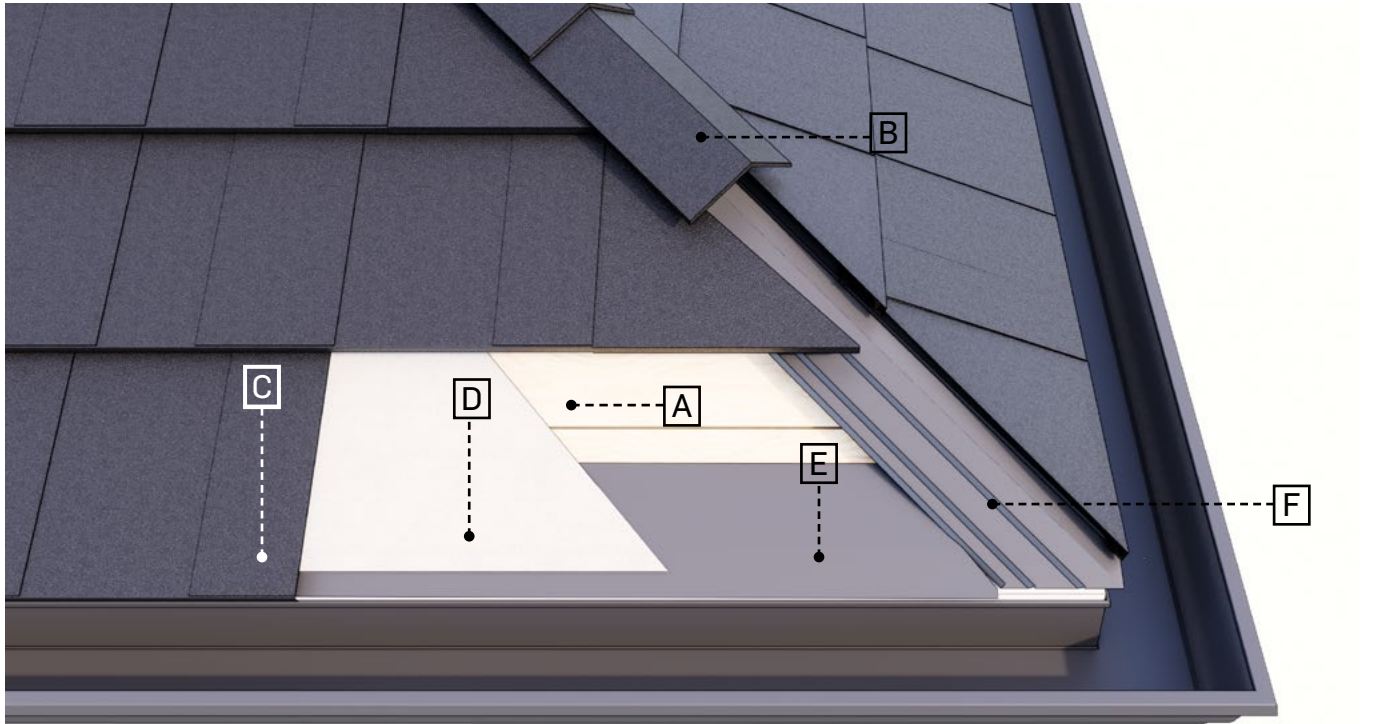
Install your panels, starting at the eaves. Work your way up to the ridge, leaving a 5 – 10mm gap between the panels from both planes of the roof.



Apply flexible flashing tape to the gap in the ridge, then install the barge covers over the barge, then install the trims at the ridge.



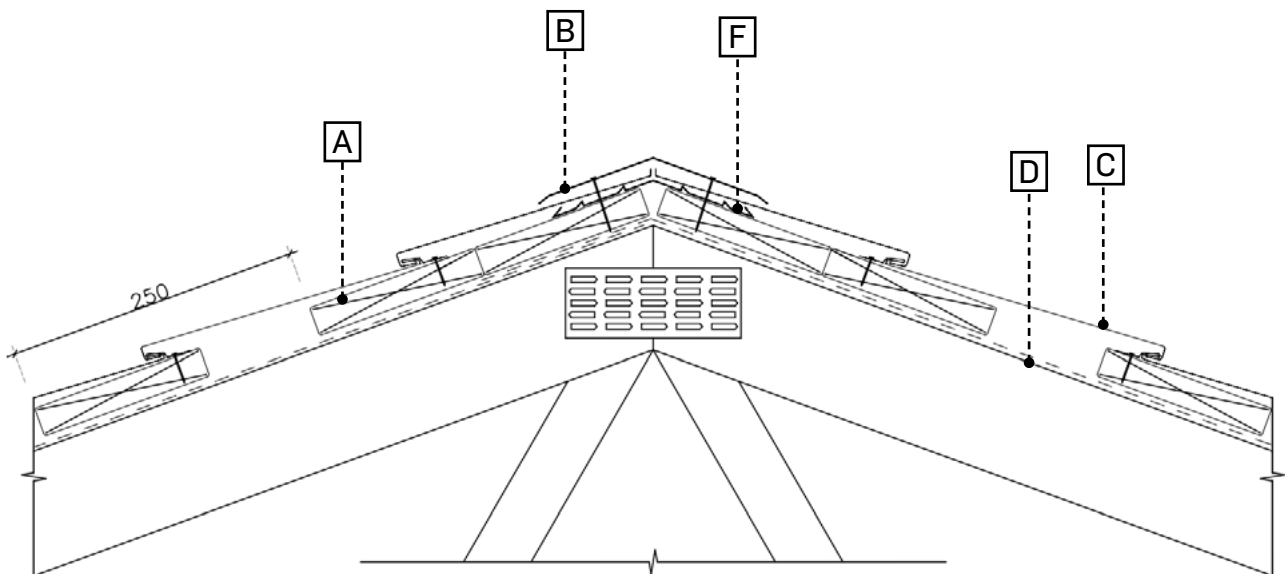
HIP DETAIL



COMPONENTS

- A. 150x25mm battens
- B. 400 CF Slate Angle Trim
- C. CF Slate panel
- D. Underlay
- E. 402 CF Slate Eaves Flashing

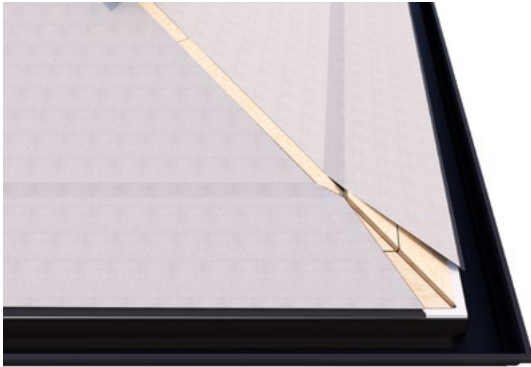
- F. 904 CF Hip Under Channel



HIP INSTALLATION

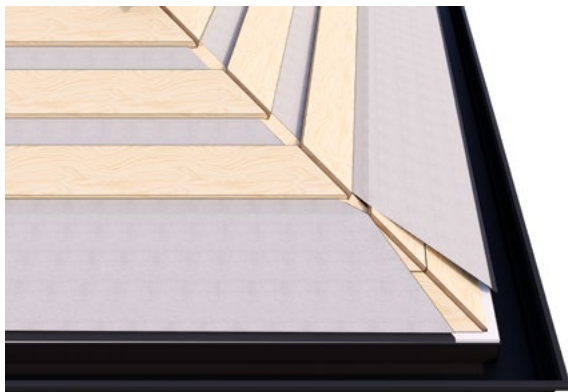
SETTING OUT

Lay out your first two rows of battens at the eaves. Install the eaves flashing at the eaves. Then install underlay across the roof.



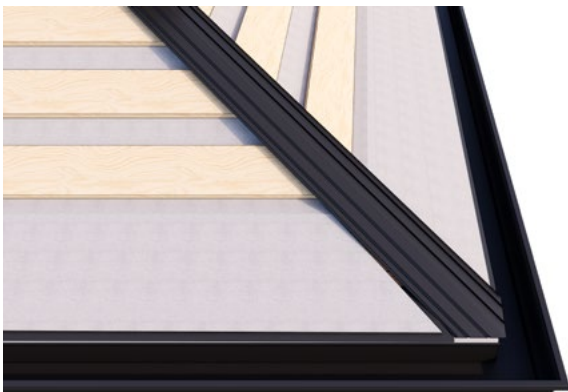
Fasten 150x25mm battens over the underlay.

Underlay should be draped over the top of the already-installed batten/s at the eaves.



INSTALLATION

Starting at the eaves fix the hip under channel to the hip of the roof.



Screws or nails should be fixed to the battens through the farthest edge, avoiding the weather channels.



Install your panels, starting at the eaves.



Install trim.



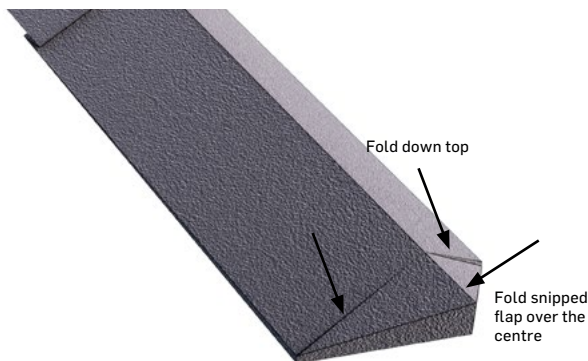
TRIM INSTALLATION

CUTTING AND FOLDING

Prepare your first trim for installation. Using a 400 CF Slate Angle Trim, cut the fold of the nose off. Then cut the in the middle, slightly off-centre, and on the sides of the nose.



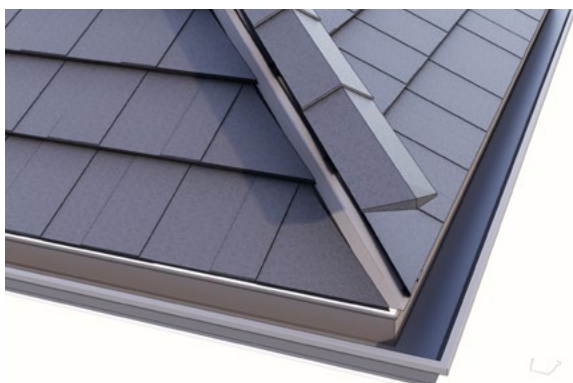
Fold the top down, overlapping the centre point to create a clean front.



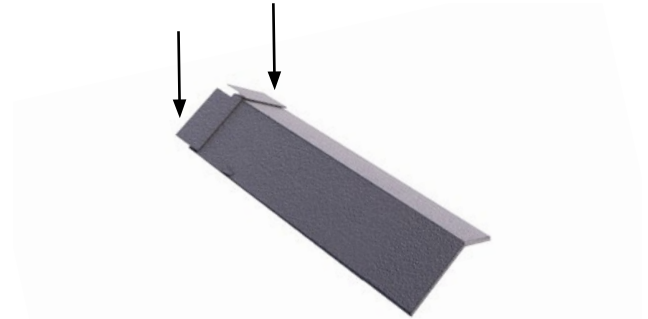
Fold in the edges if required. Trim off excess if required.

INSTALLATION - HIP

Cut and fold the first trim to fit into the corner of the roof. Fasten into the hip under channel with a fastener in each tab at the head of the trim.



Take care to fasten at the outside edge of the tabs to avoid penetrating the weather channels of the under channel.



Hook the next trim into the installed trim's head and fasten, making your way up the hip.

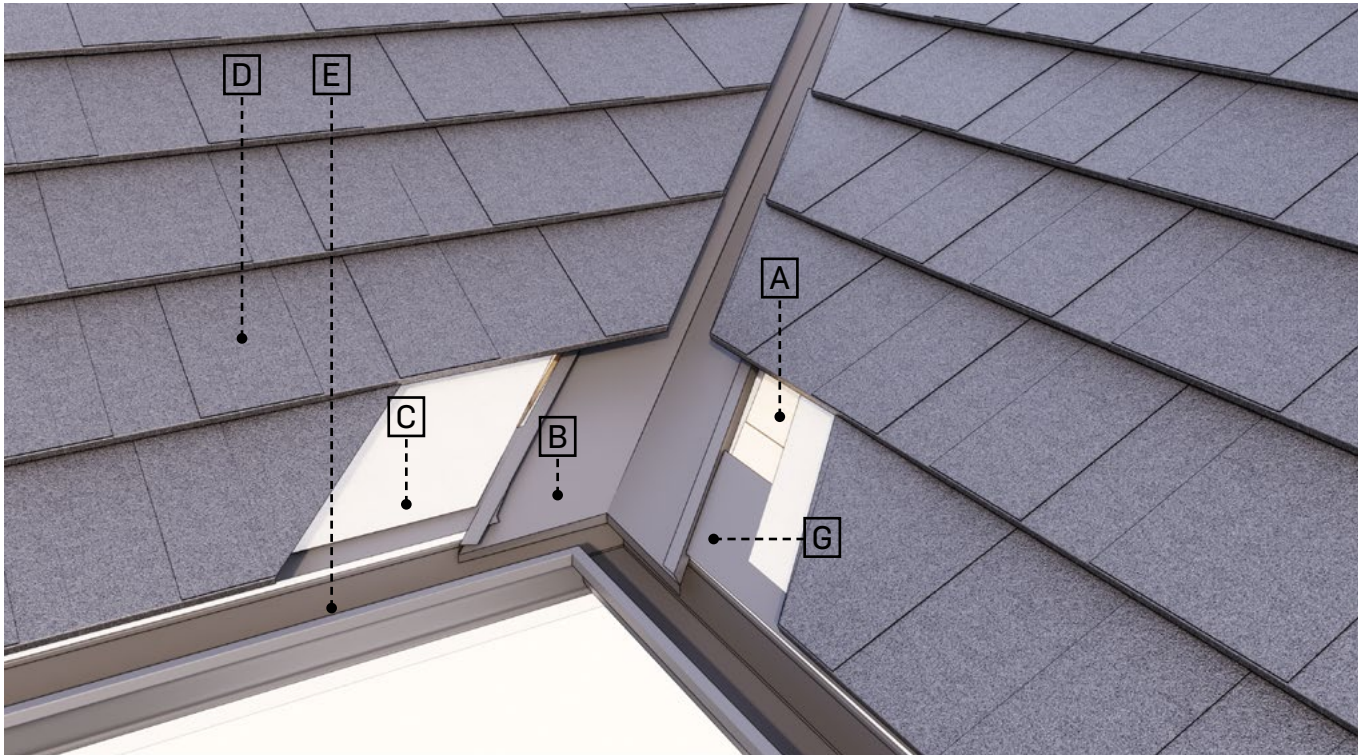
INSTALLATION - RIDGE

Starting at the barge, cut the nose off the trim. This allows for the trim to fit between the ridge and barge cover. Fit the nose under the barge cover. Fasten using the tabs at the head of the trim.



Hook the nose of the next trim into the head fold of the already-installed trim, then fasten to the battens at the ridge. Continue this method along the ridge.

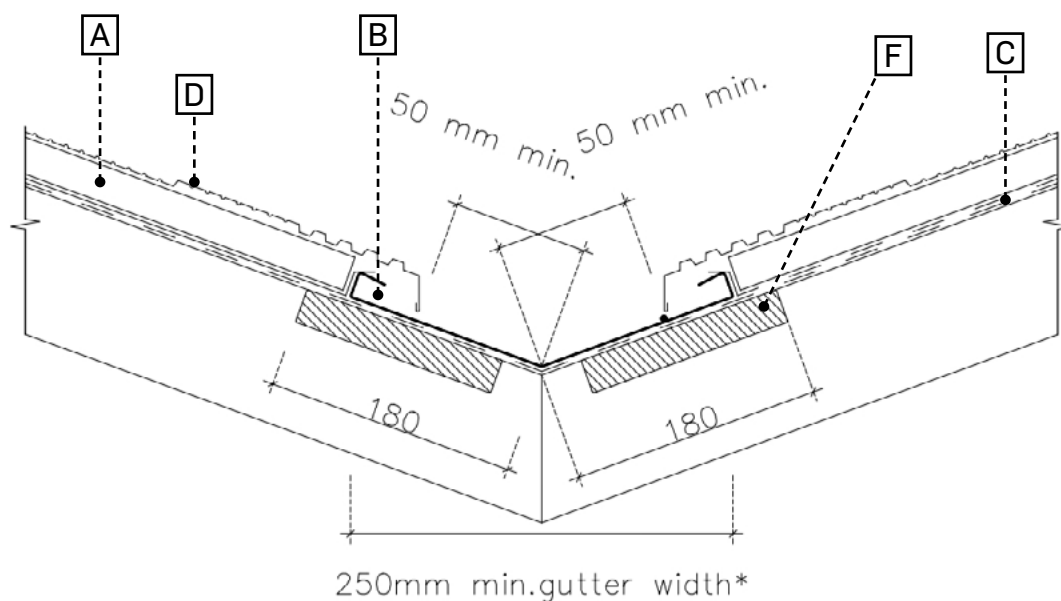
VALLEY DETAIL



COMPONENTS

- A. 150x25mm battens
- B. 116 Valley Wide
- C. Underlay
- D. CF Slate panels
- E. Gutter

- F. Valley board (by builder)
- G. 402 CF Slate Eaves Flashing

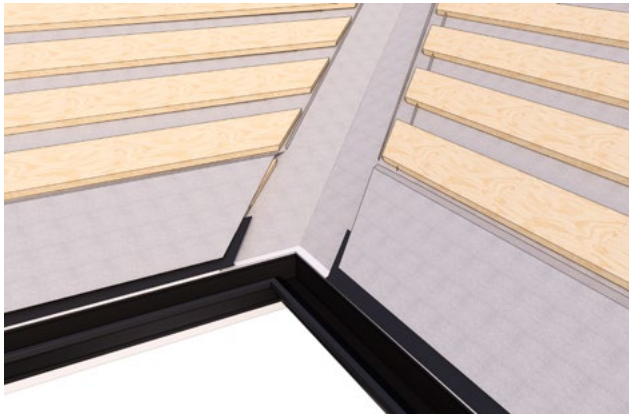


Note: Valley trays are held in place with a clip or nail bent over the top of the valley. Do not nail inside the valley.

VALLEY INSTALLATION

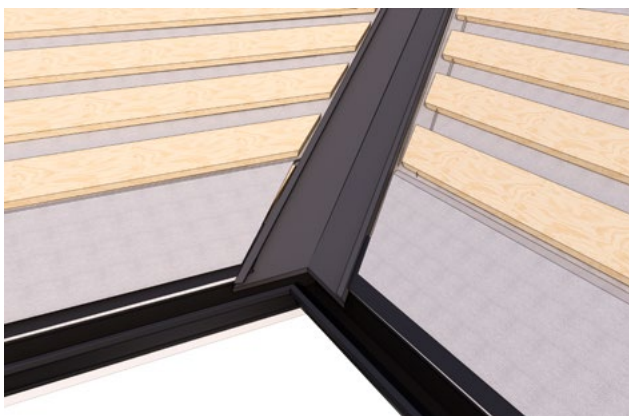
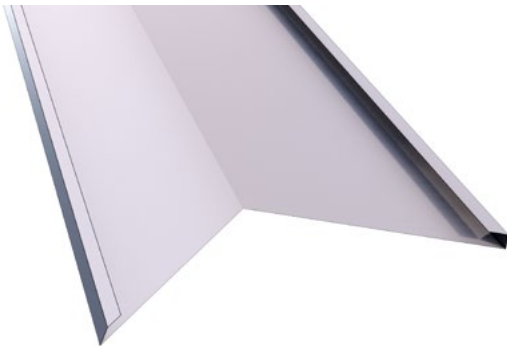
SETTING OUT

Valley boards should be installed by the builder. Install the eaves flashing. Pin out and install the underlay. Install the battens over the plane of the roof.



INSTALLATION

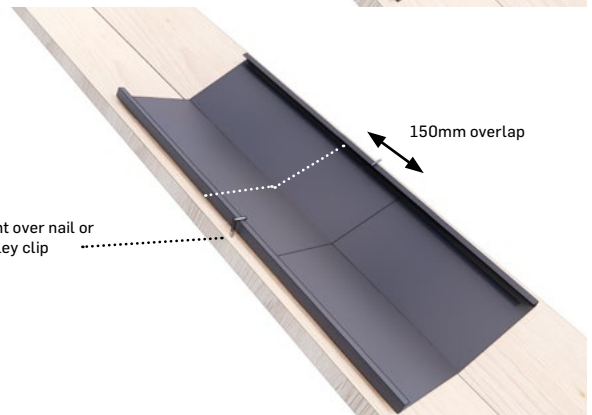
Prepare the first valley tray by cutting and folding the edge to turn down into the gutter. The valley should be positioned a minimum of 40mm from the edge of the fascia for sufficient overhang.



Using a nail or valley clip, secure the valley tray into place. If using nails, ensure you do not penetrate the valley by bending nails over the rail, rather than screwing through

the valley tray.

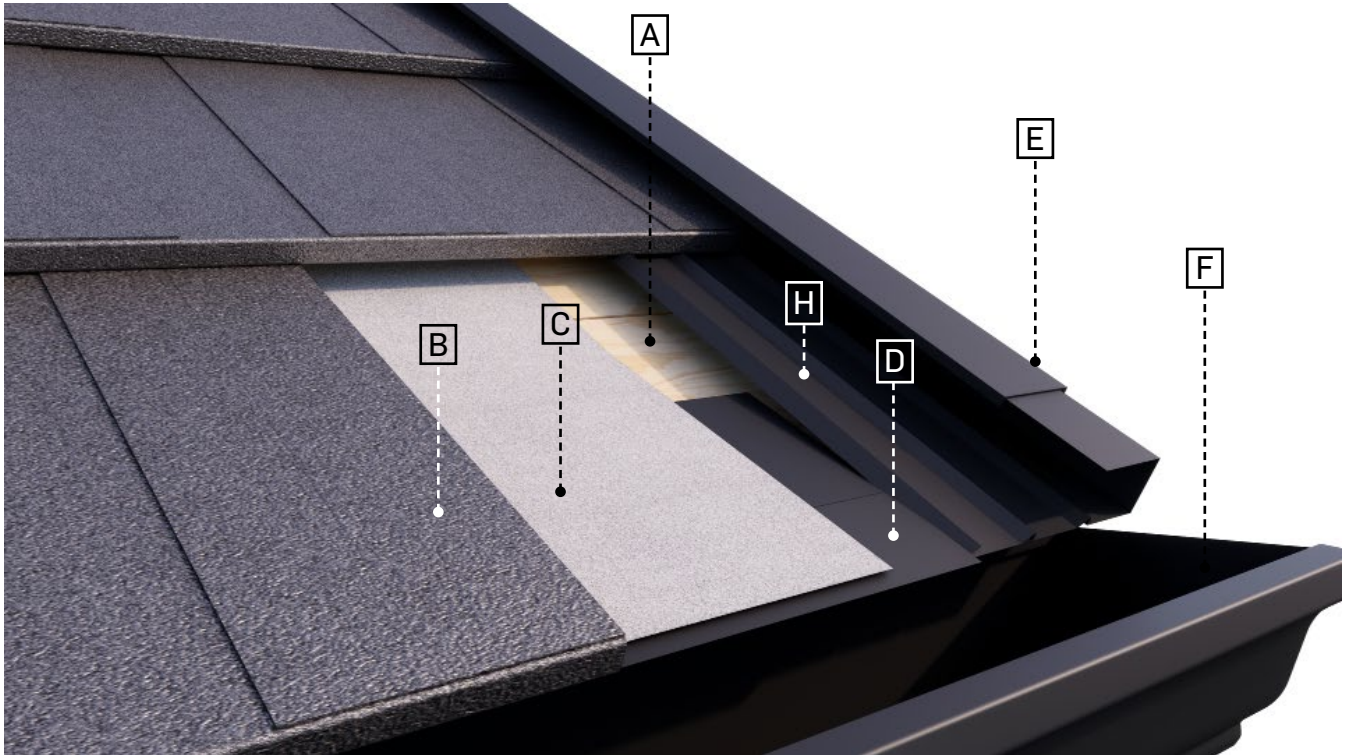
Slide the second valley tray into the first. Add silicone between the trays, across the entire width. The valley trays should overlap by 150mm.



Install CF Slate panels up the roof, starting at the eaves. When the valley is reached, turn down the sides of the panel into the valley, ensuring a minimum of 50mm space between the panels on opposing sides of the valley. The cut edges of the turn down should have a minimum clearance of 20mm and must not touch the valley.



BARGE DETAIL



COMPONENTS

A. 150x25mm battens

B. CF Slate panels

C. Underlay

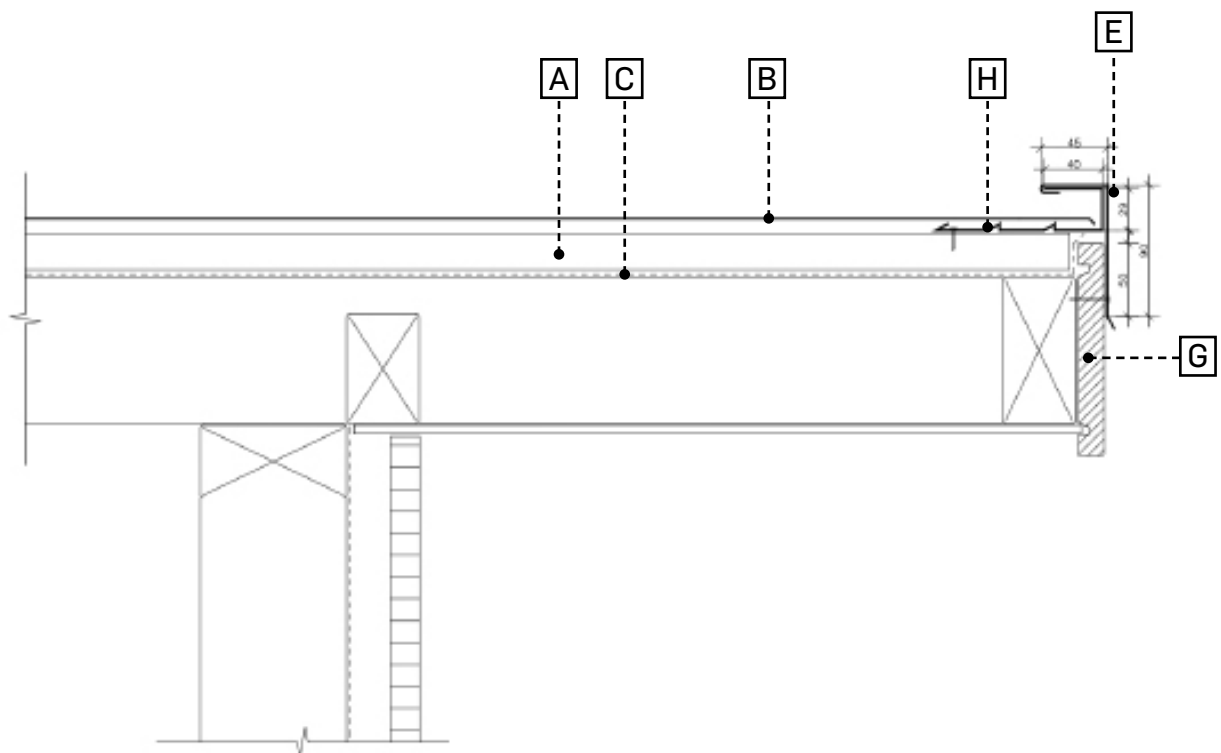
D. 402 CF Slate Eaves Flashing

E. 903 CF Barge Cover

F. Gutter

G. Fascia

H. 418 CF Slate Barge Channel



BARGE INSTALLATION

CUTTING AN END

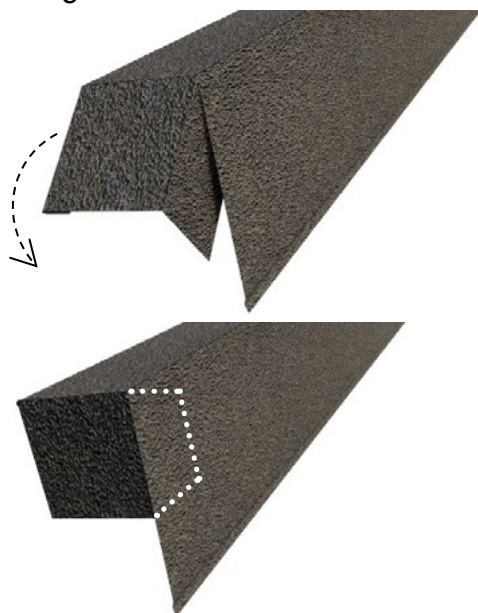
Measure 55mm (approx.) from the front of the barge cover. Cut up the long edge of the cover.



Make a horizontal cut to remove the bottom part of the newly-created flap.

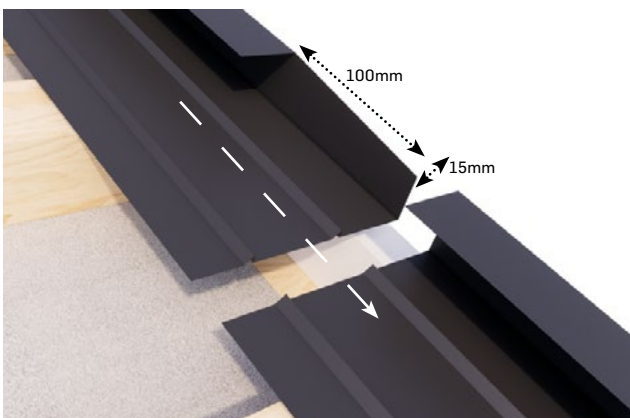


Fold in the flap slightly and fold the front down creating a box-end.



NOTCHING – BARGE COVER

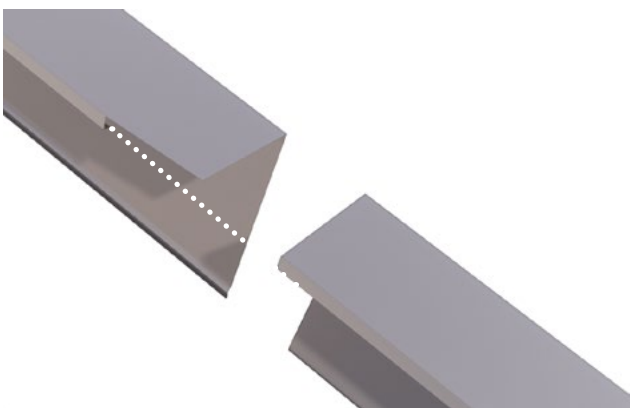
Notch the barge channel by cutting 100mm up the side of the top and cut it off. Cut the top of the side on an angle to a depth of 15mm. This makes it easy to fit subsequent pieces into already installed barge channel pieces.



NOTCHING - BARGE COVER

Cut a 100mm notch from the end of the barge cover. Cut off the excess from the notch. This makes it easy to fit subsequent pieces into already installed barge cover pieces.

Slide inside the first barge cover with an overlap of 100mm.



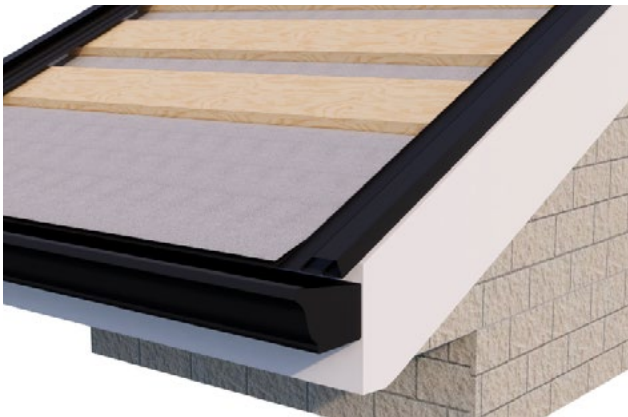
BARGE INSTALLATION

INSTALLATION

Install the eaves flashings, underlay and battens.



Install the barge channels.



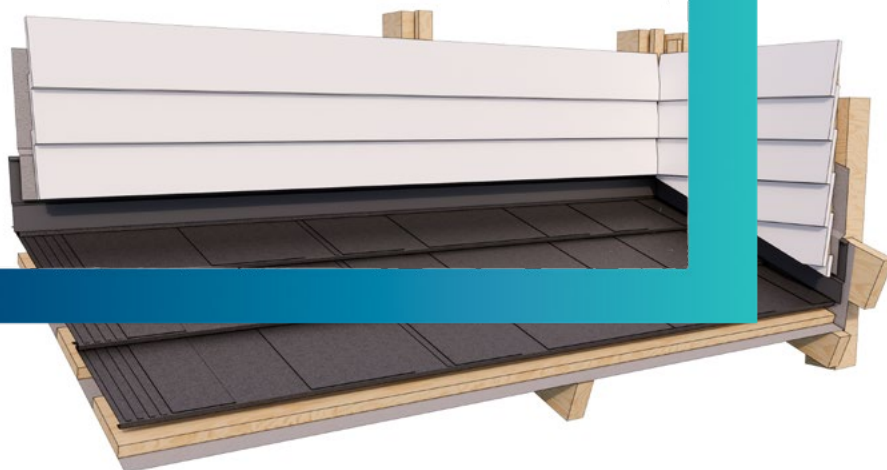
Install the panels.



Install the barge covers.

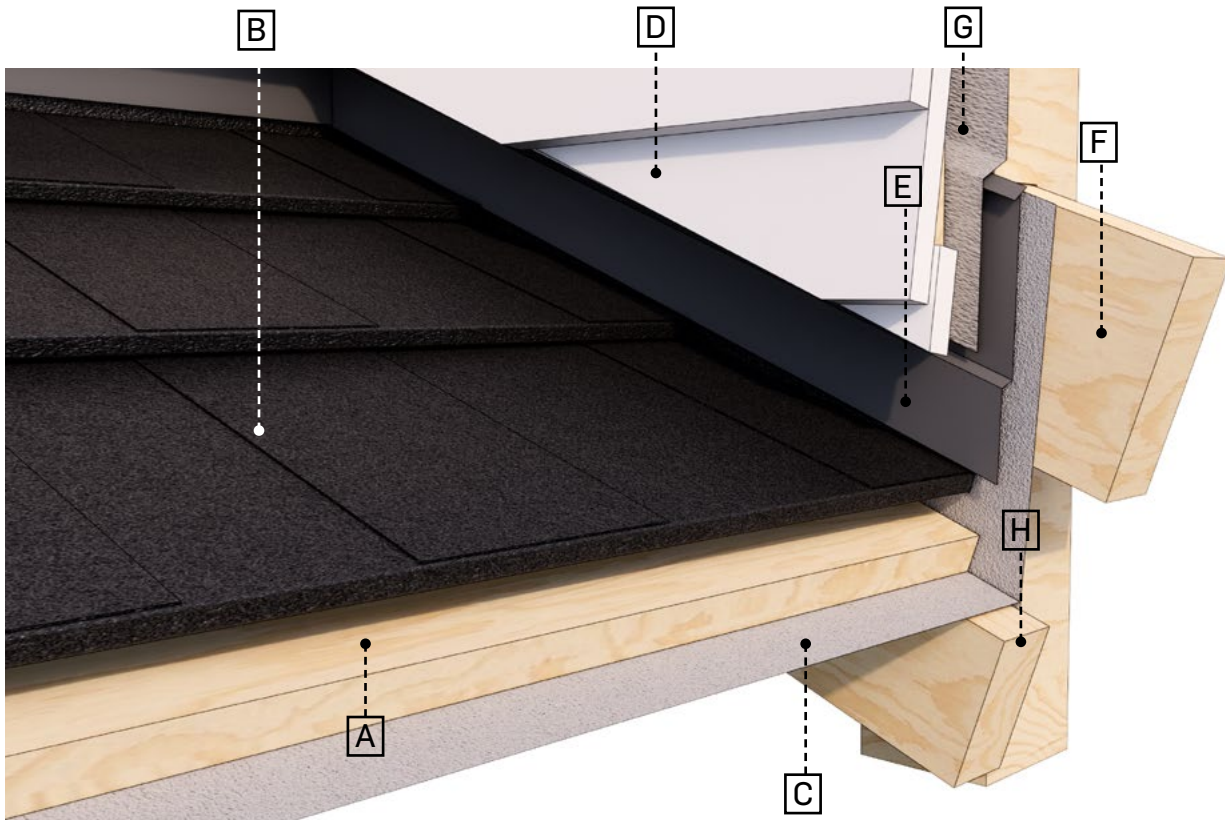


06. WALL JUNCTIONS



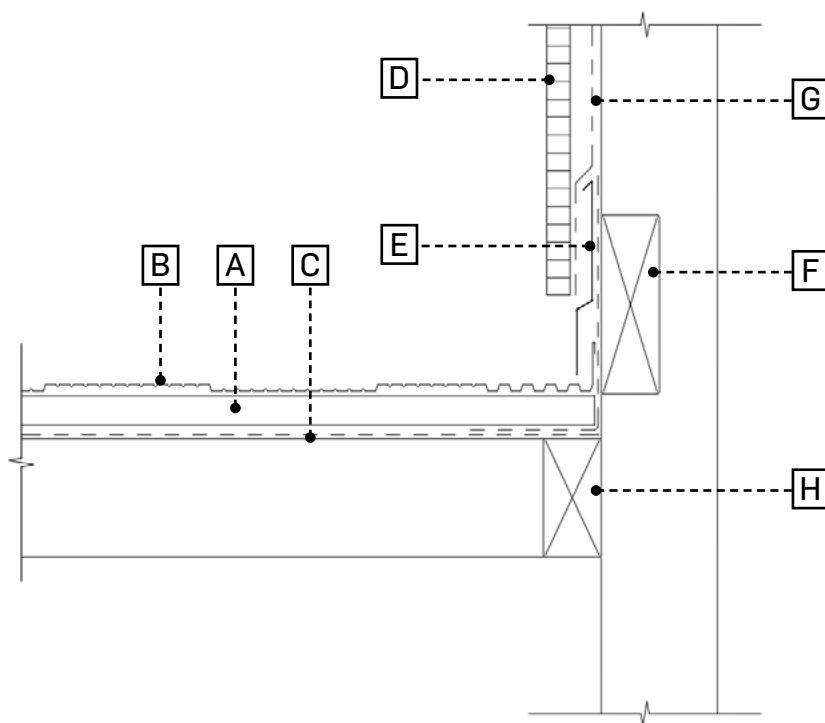
INSTALLATION MANUAL
CF SLATE ON BATTENS

SIDE WALL DETAIL



COMPONENTS

- | | |
|--------------------------------|--------------------------------|
| A. 150x25mm battens | F. Support nog (by builders) |
| B. CF Slate panels | G. Wall underlay (by builders) |
| C. Underlay | H. Rafter |
| D. Wall cladding (by builders) | |
| E. 104 Side Flashing | |



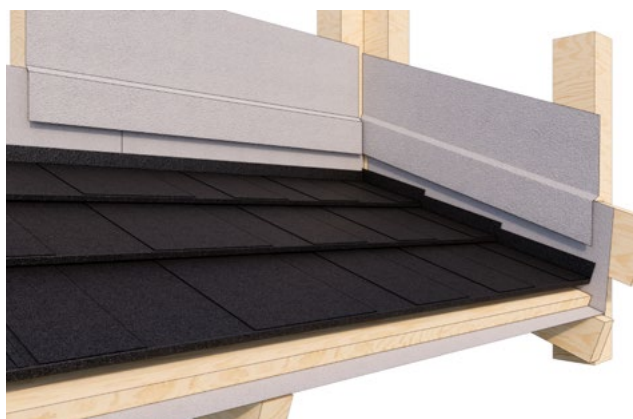
SIDE WALL INSTALLATION

INSTALLATION

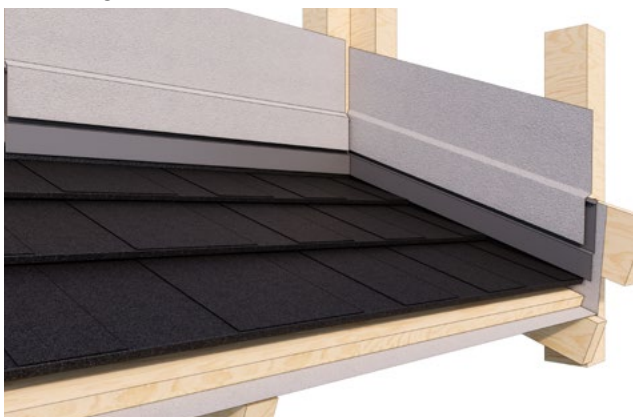
Roof framing, support nogs, and wall underlay are installed by builders. Pin out roofing underlay, ensuring enough underlay is available to line the wall above the side flashings. Fix 150x25mm battens over the top of the roof underlay.



Install CF Slate panels up the roof, starting at the eaves. When a wall is met, create an upstand of at least 40mm.

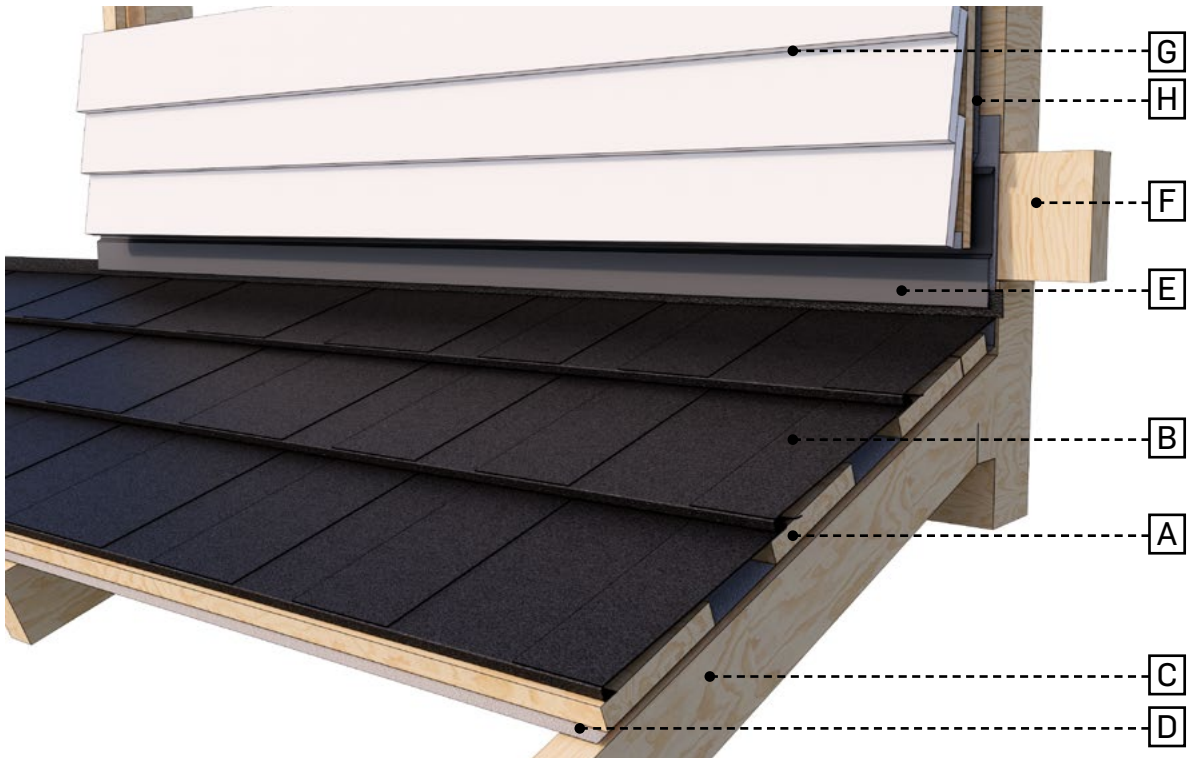


Fix the side flashing to the support nog in the wall. Wall underlay should lay over the top of the side flashing, while the roofing underlay should lie between the side flashing and the wall.



Once side flashings are installed, the builders can install the wall cladding.

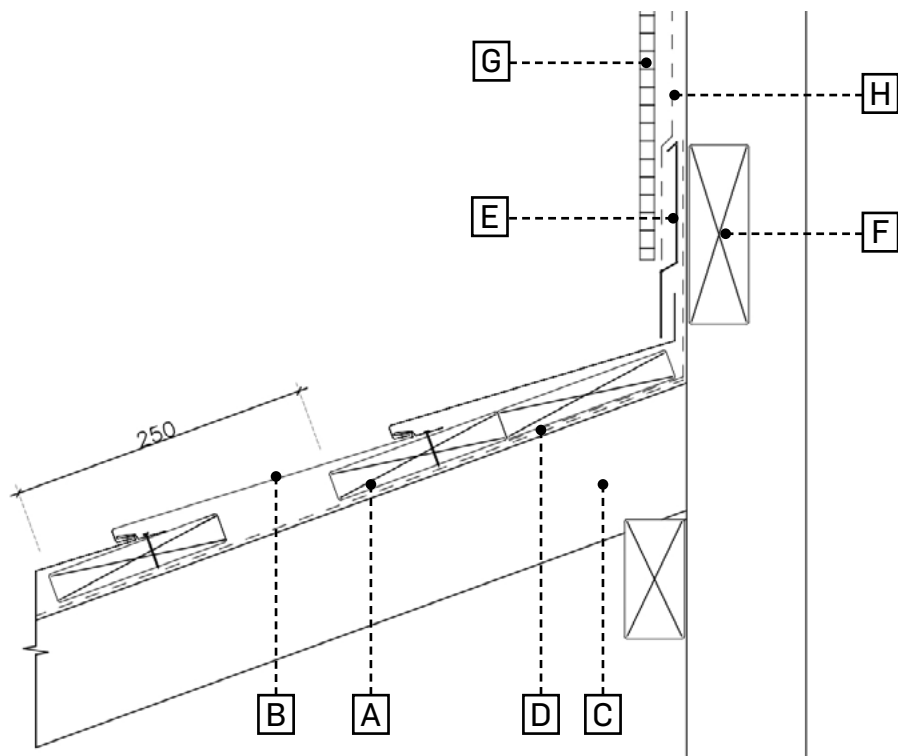
HEAD WALL DETAIL



COMPONENTS

- A. 150x25mm battens
- B. CF Slate panels
- C. Rafter
- D. Underlay
- E. 104 Side Flashing

- F. Support nog (by builders)
- G. Wall cladding (by builders)
- H. Wall underlay (by builders)



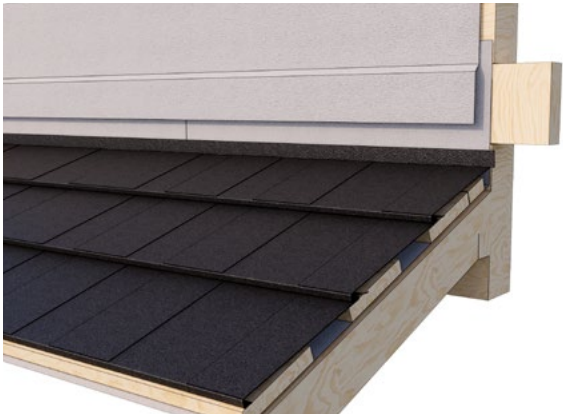
HEAD WALL INSTALLATION

INSTALLATION

Roof framing and wall underlay are installed by builders. Pin out roofing underlay, ensuring enough underlay is available to line the wall above the side flashings. Fix 150x25mm battens over the top of the roof underlay.



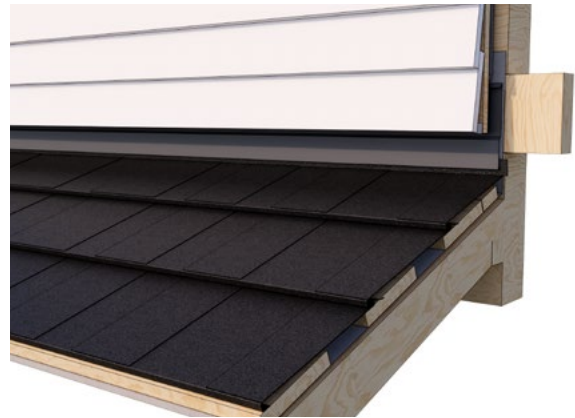
Install CF Slate panels up the roof, starting at the eaves. When a head wall is met, create an upstand of at least 40mm at the head of the panel.



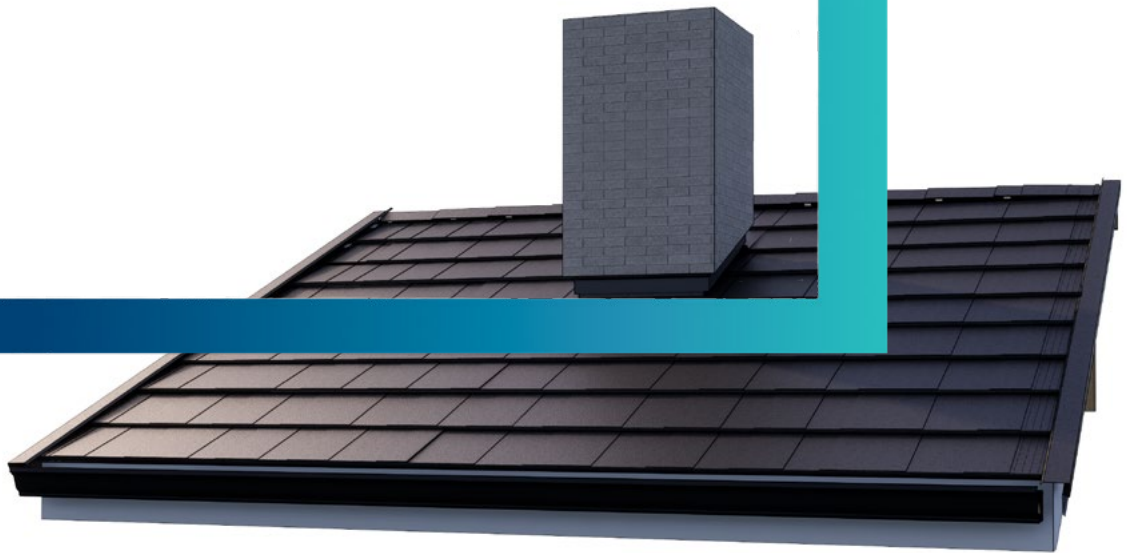
Fix the side flashing to the support nog in the wall. Wall underlay should lay over the top of the side flashing.



Once side flashings are installed, the builders can install the wall cladding.



07. ROOF PENETRATIONS



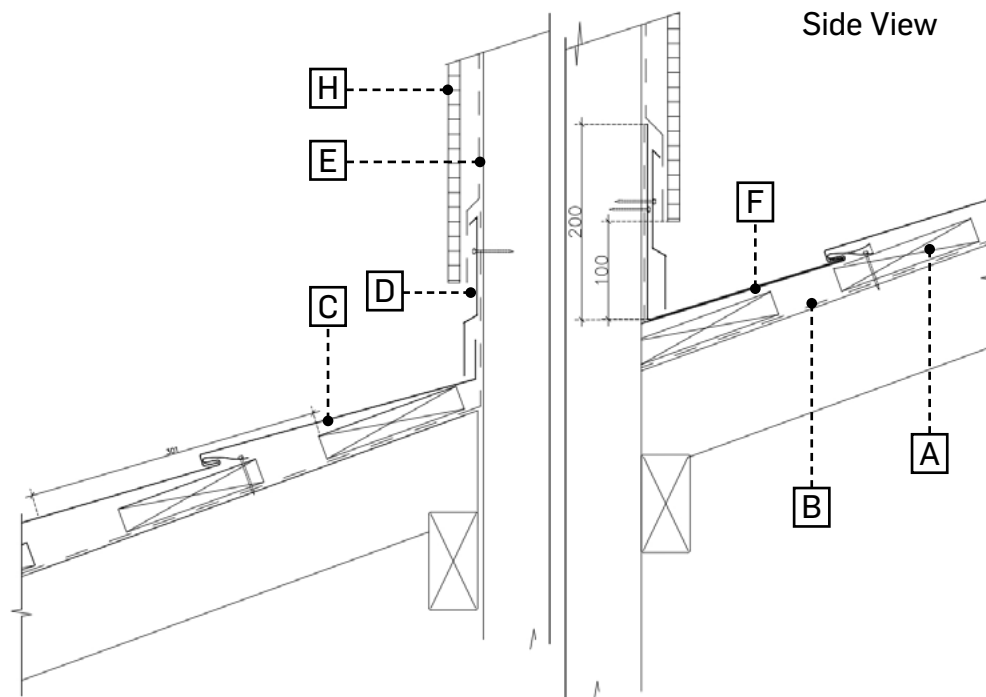
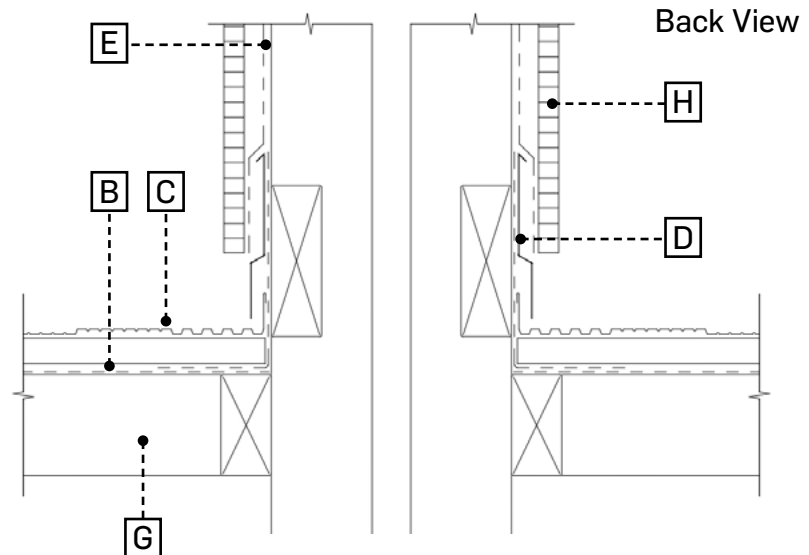
INSTALLATION MANUAL
CF SLATE ON BATTENS

CHIMNEY PENETRATION DETAIL



COMPONENTS

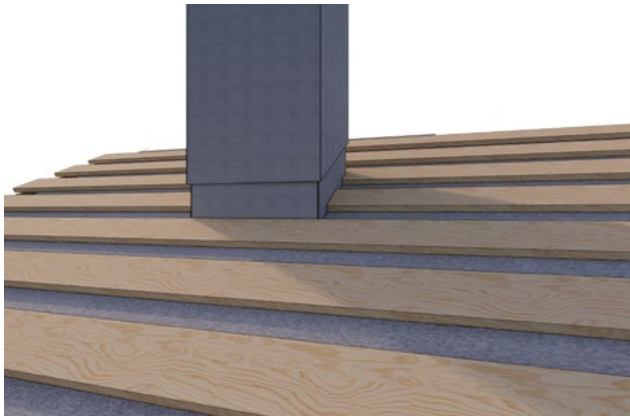
- A. 150x25mm battens
- B. Underlay
- C. CF Slate panel (40mm min turn up)
- D. 104 Side Flashing
- E. Wall underlay (by builders)
- F. Chimney back flashing
- G. Rafter (by builders)
- H. Wall cladding (by builders)



CHIMNEY PENETRATION INSTALLATION

INSTALLATION

For chimneys up to 1 metre in width.
Pin out and install roof underlay across the roof, working around the chimney. Ensure enough underlay is available to reach the wall above the side flashings. Install 150x25mm battens across the plane of the roof.



Install CF Slate panels across the roof, starting at the eaves. At the penetration, turn up the panels by a minimum of 40mm on all sides.



Prepare your back flashing. The head should have a 10mm turn-back to allow the next panel to hook into it.



If the distance from the back of the chimney to the batten is less than 150mm, extend your back flashing up to the next batten.

Install side flashings on the front and sides of the penetration. Then install the back flashing. The upstand on the back flashing should be a minimum of 250mm.



Finally, install a side flashing over the back flashing to align with the other already-installed side flashings.



Once completed, the builders can install wall cladding to the chimney.



DEKTITE PENETRATION

INSTALLATION

Cut through the underlay taking care to create a turn up around the pipe penetration.



Install CF Slate panels up the plane of the roof to the pipe. When the penetration is reached, pierce a hole in the panel at the centre of the pipe's location.

Cut to the circumference of the pipe and slide the panel over the pipe.



Install the next course of panels.



Cut the Dektite cone where indicated for the relevant pipe size.

Slide the Dektite flashing down over the pipe. Water can be used as a lubricant.

Apply neutral cure silicone or double-sided roofing membrane tape on the underside of the flange.

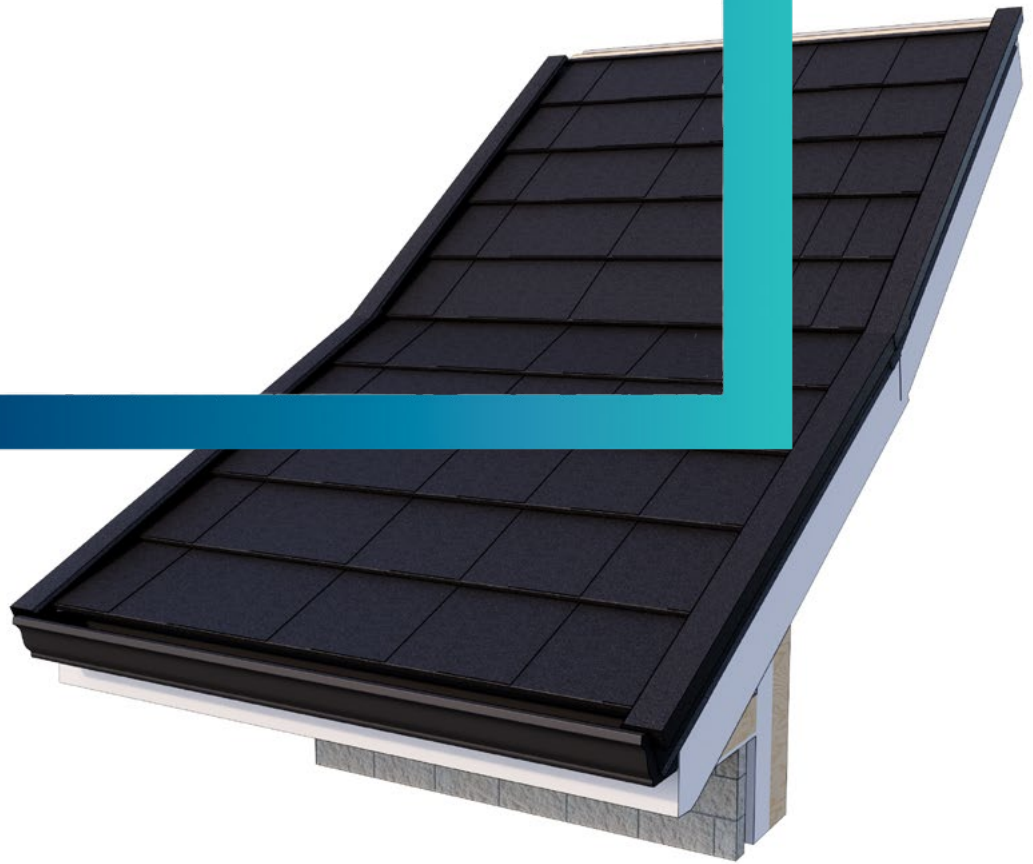
Press pipe flashing into contours of the roof panel.



Fasten with self-tapping or self-drilling screws, or selected pop rivets.



08. OTHER DETAILS



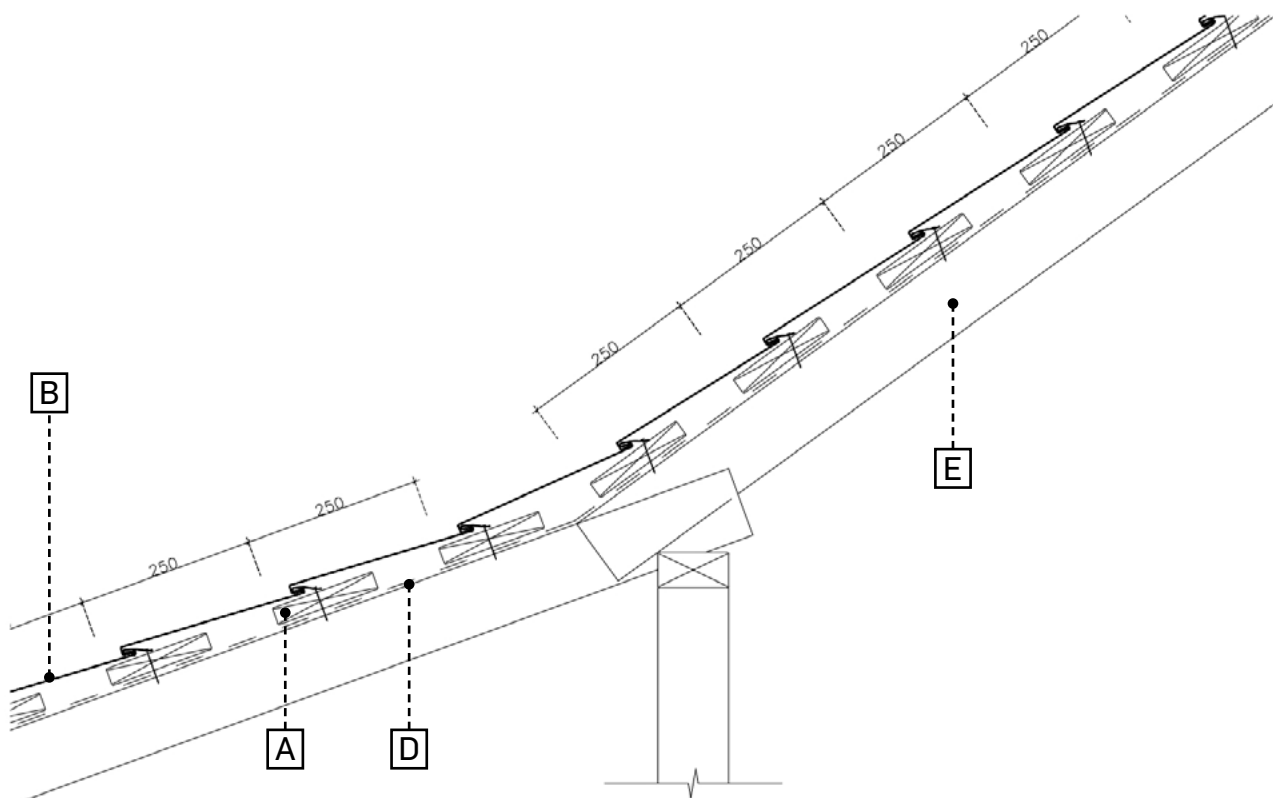
INSTALLATION MANUAL
CF SLATE

CHANGE OF PITCH DETAIL



COMPONENTS

- A. 150x25mm battens
- B. CF Slate panels
- C. 401 CF Slate Barge Cover
- D. Underlay
- E. Rafter

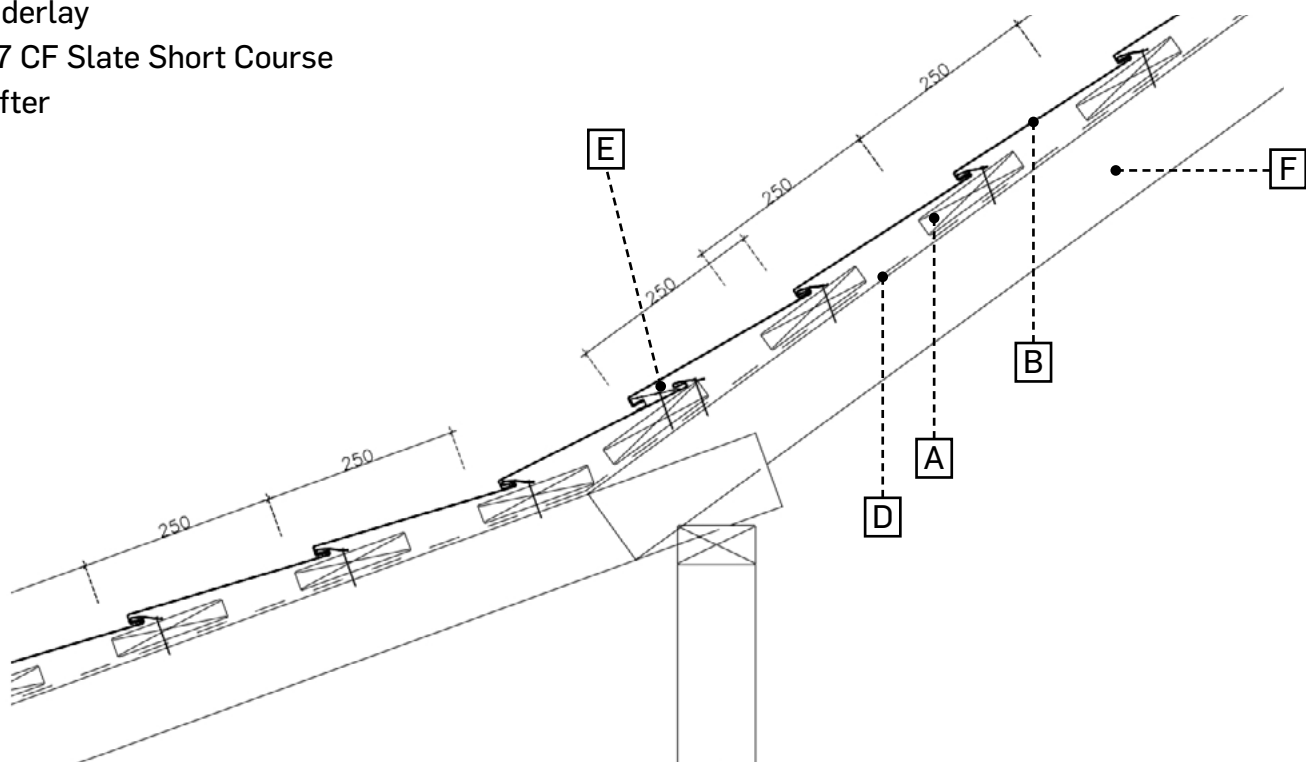


CHANGE OF PITCH DETAIL



COMPONENTS

- A. 150x25mm battens
- B. CF Slate panels
- C. 401 CF Slate Barge Cover
- D. Underlay
- E. 417 CF Slate Short Course
- F. Rafter



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