



INSTALLATION MANUAL

CF SHAKE & CF SHINGLE ON BATTENS

This installation guide outlines the recommended installation method for Gerard's CF Shake and CF Shingle product ranges. 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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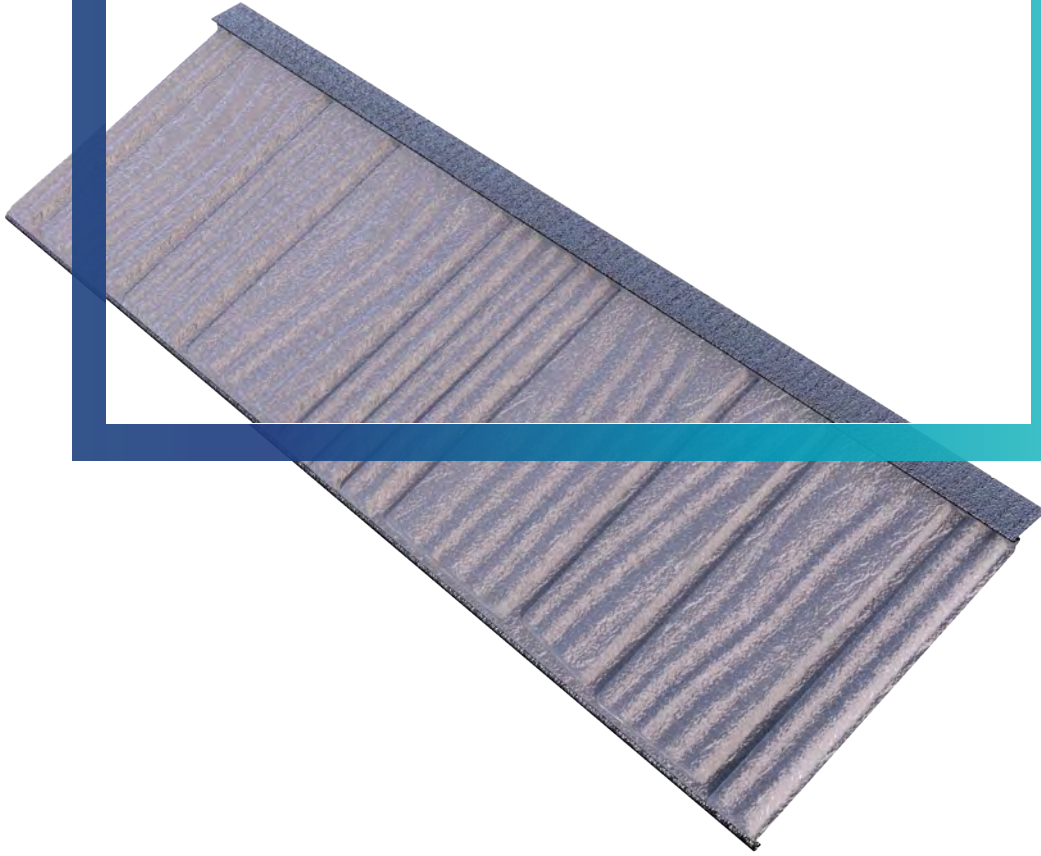
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01. PRODUCT INFORMATION



INSTALLATION MANUAL
CF SHAKE & CF SHINGLE

PRODUCT SPECIFICATION

CF SHINGLE



Overall Length	Cover Length	Width	Cover Width	Panels/sqm	Weight	Minimum Roof pitch
1335mm	1260mm	435mm	370mm	2.15 pcs/sqm	7.5kg/sqm	15°

CF SHAKE



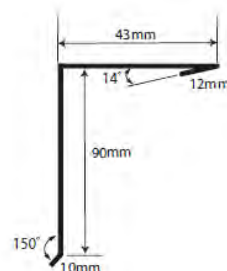
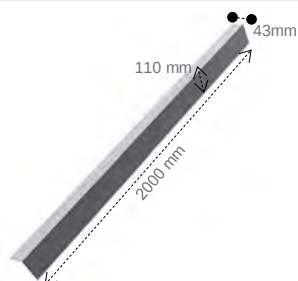
Overall Length	Cover Length	Width	Cover Width	Panels/sqm	Weight	Minimum Roof pitch
1335mm	1260mm	424mm	370mm	2.15 pcs/sqm	7.5kg/sqm	15°

FASTENING REQUIREMENTS

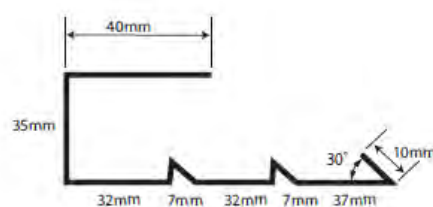
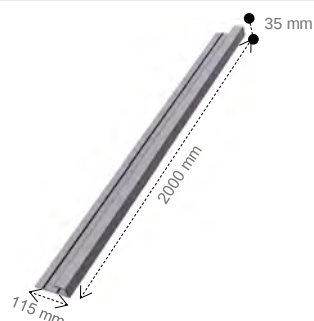
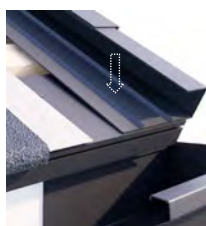
Tile fastenings in Wind Zone up to and including Extra High	5 nails/panel or 5 screws/panel	50mm x 2.8mm ring shanked, ruspert coated nails or #10 1-1/2 inch screws
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ACCESSORY OVERVIEW

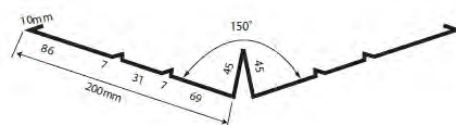
903 CF SHAKE/SHINGLE BARGE COVER



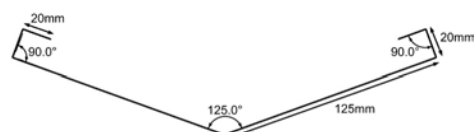
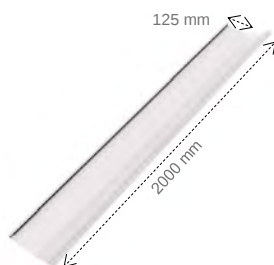
905 CF SHAKE/SHINGLE BARGE CHANNEL



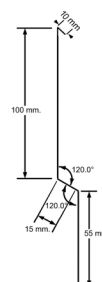
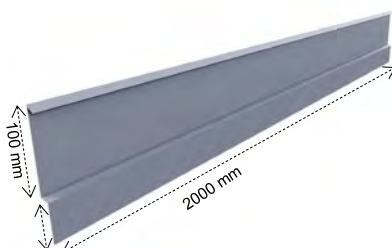
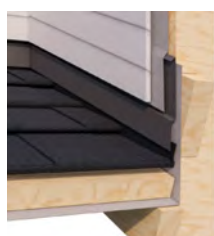
906 CF SHAKE/SHINGLE VALLEY



116 VALLEY WIDE

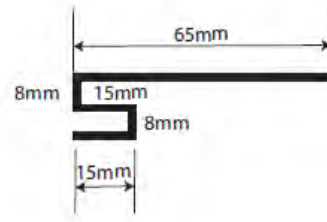
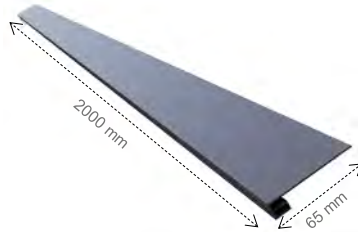


104 SIDE FLASHING

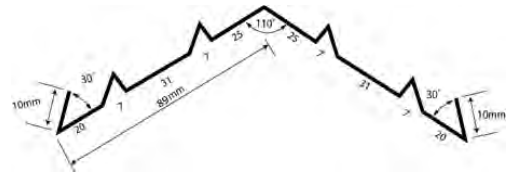


ACCESSORY OVERVIEW

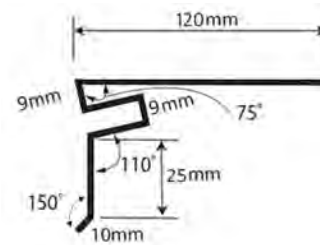
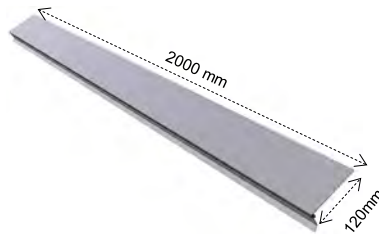
901 CF SHORT COURSE



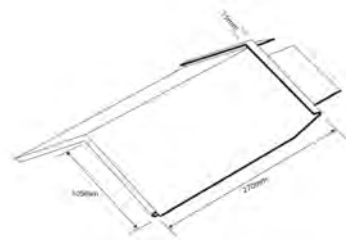
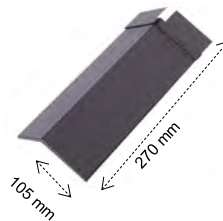
904 CF HIP UNDER CHANNEL



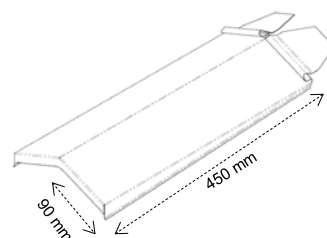
913 CF SHAKE/SHINGLE EAVES FLASHING



400 CF SHINGLE/SLATE ANGLE TRIM



914 CF SHAKE ANGLE TRIM



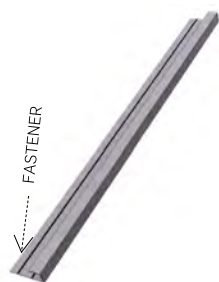
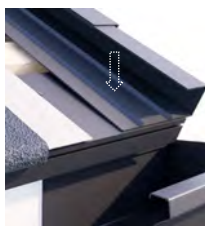
FASTENER DETAILS

903 CF SHAKE/SHINGLE BARGE COVER



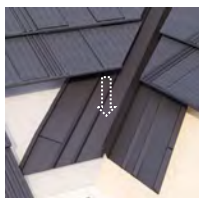
#10x1 1/2 " screws 3x (1 at each lap, 1 in the middle)
50mm 8D ring-shank nails

905 CF SHAKE/SHINGLE BARGE CHANNEL



#10x1 1/2 " screws 6x @300mm centres
with washers
8D ring-shank
sealsure nails

906 CF SHAKE/SHINGLE VALLEY



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

116 VALLEY WIDE



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

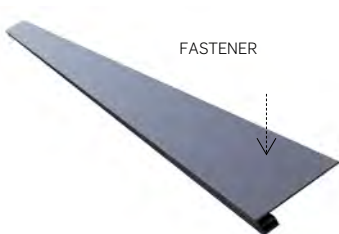
104 SIDE FLASHING



#10x1 1/2 " screws 4x @ 500mm centres
50mm 8D ring-shank nails

FASTENER DETAILS

901 CF SHORT COURSE



#10x1 1/2 " screws 6x @ 300mm
50mm 8D ring-shank nails
centres

904 CF HIP UNDER CHANNEL



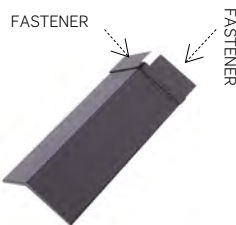
#10x1 1/2 " screws 6x @300mm centres
with washers
8D ring-shank
sealsure nails

913 CF SHAKE/SHINGLE EAVES FLASHING



#10x1 1/2 " screws 8x @300mm centres
50mm 8D ring-shank
nails

400 CF SHINGLE/SLATE ANGLE TRIM



#10x1 1/2 " screws 2x (1 in each tab)
50mm 8D ring-shank
nails

914 CF SHAKE ANGLE TRIM



#10x1 1/2 " screws 2x (1 in each tab)
50mm 8D ring-shank
nails

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

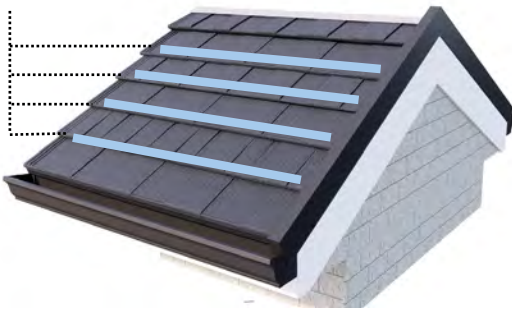
The surface coating of textured finish panels may be damaged when they are wet, and damage increases as the pitch increases.

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

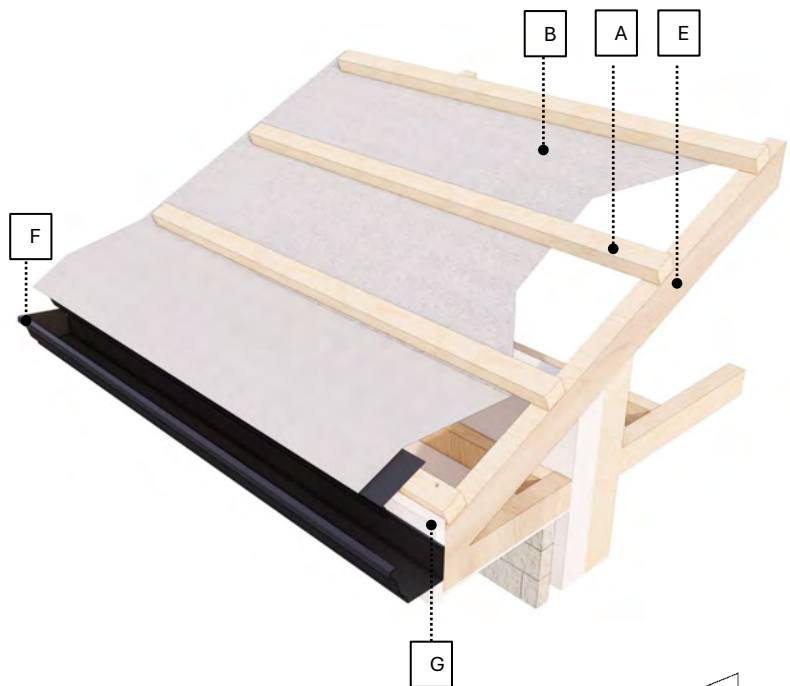


INSTALLATION MANUAL
CF SHAKE & CF SHINGLE ON BATTENS

CF SHAKE BATTEN LAYOUT

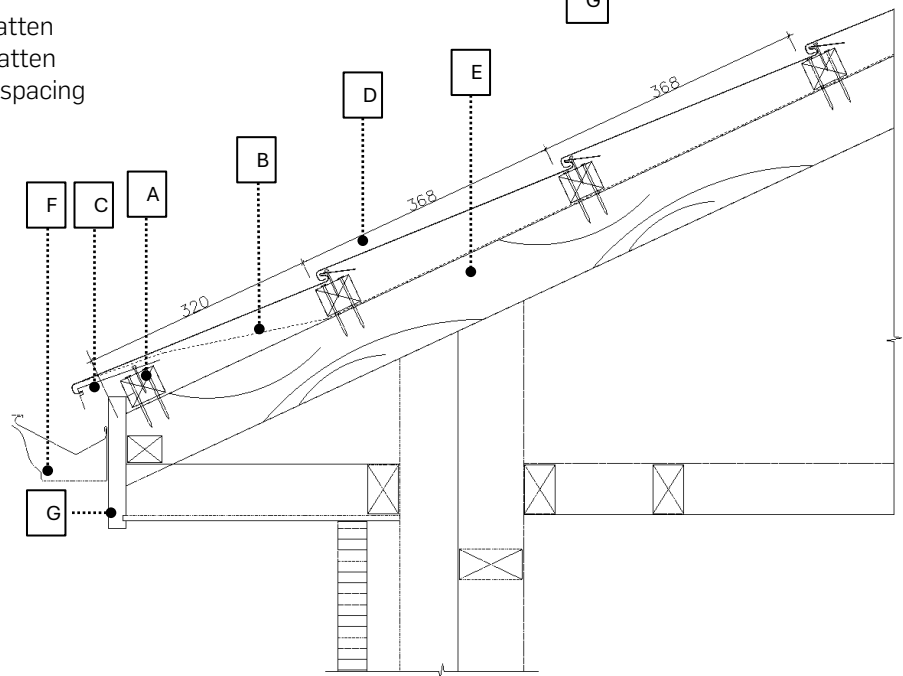
COMPONENTS

- A. 40x50mm battens
- B. Underlay
- C. 913 CF Shake/Shingle Eaves Flashing
- D. CF Shake panel
- E. Rafter
- F. Gutter
- G. Fascia board



BATTEN SPACING

- 1st batten: Fix at fascia
- 2nd batten: 320mm from 1st batten
- 3rd batten: 368mm from 2nd batten
- Subsequent battens: 368mm spacing



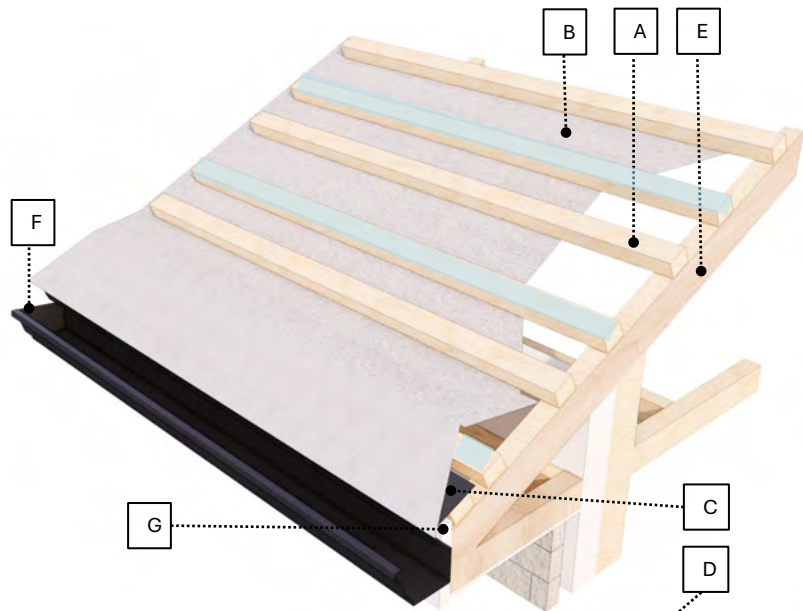
WIND ZONES

When fixed in accordance with Gerard's systems specifications, the CF Shake 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.

CF SHINGLE BATTEN LAYOUT

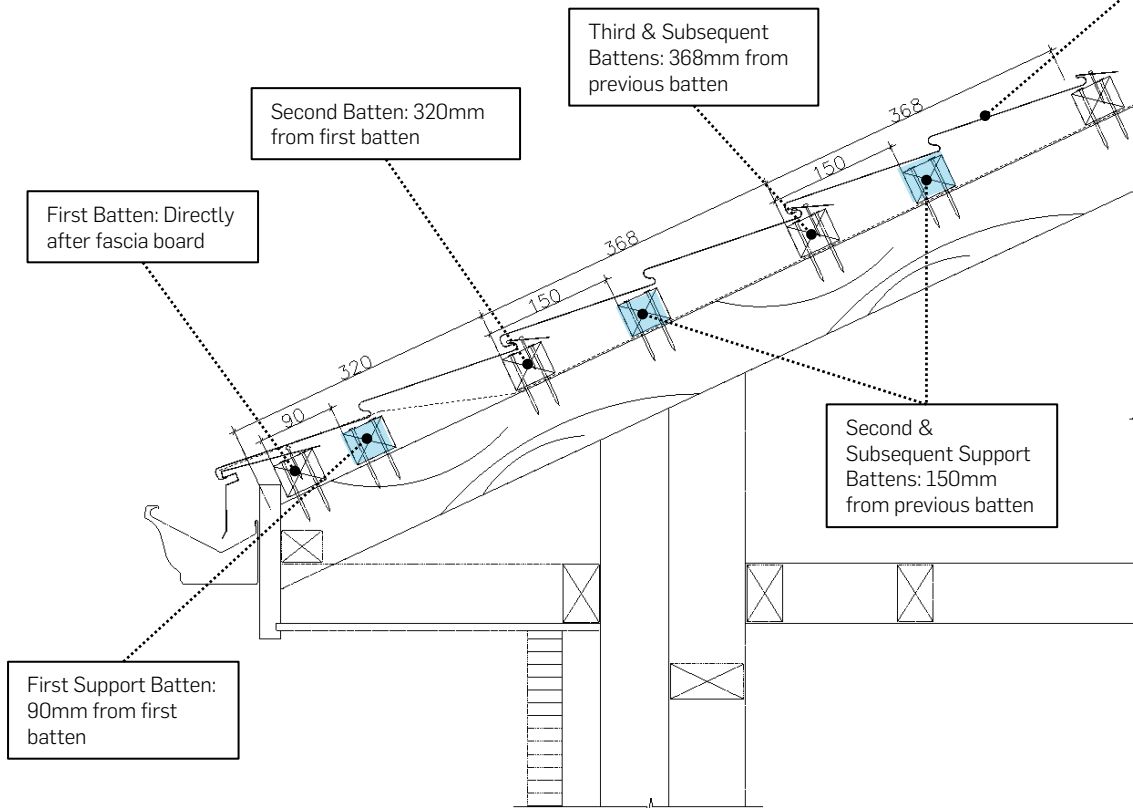
COMPONENTS

- A. 40x50mm battens
- B. Underlay
- C. 913 CF Shake/Shingle Eaves Flashing
- D. CF Shingle Panel
- E. Rafter
- F. Gutter
- G. Fascia board



SUPPORT BATTENS

Support battens are installed at the mid-fold of the tile to prevent bowing. Support battens highlighted in blue on image.



WIND ZONES

When fixed in accordance with Gerard's systems specifications, the CF Shingle 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 and 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 SHAKE & CF SHINGLE ON BATTENS

EAVES DETAIL



COMPONENTS

- A. 40x50mm battens behind fascia
- B. 913 CF Shake/Shingle Eaves Flashing
- C. Underlay
- D. 40x50mm battens
- E. CF Shake or CF Shingle panel
- F. Gutter
- G. Fascia board
- H. Rafter

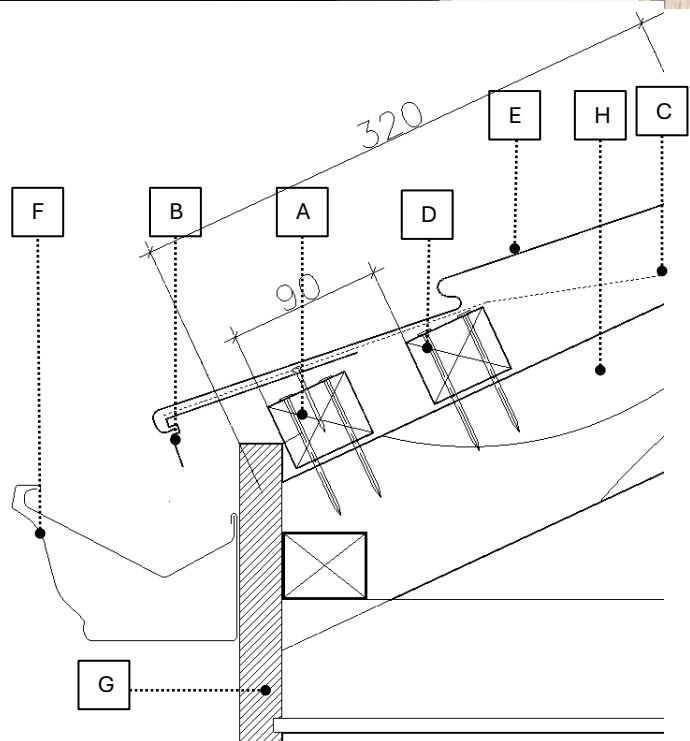


Image shows CF Shingle as a representation only. See Batten Layout section for CF Shake's batten layout.

EAVES FLASHING INSTALLATION

SETTING OUT

Install the first row of battens at the eaves. For CF Shingle, also install the second row of battens.



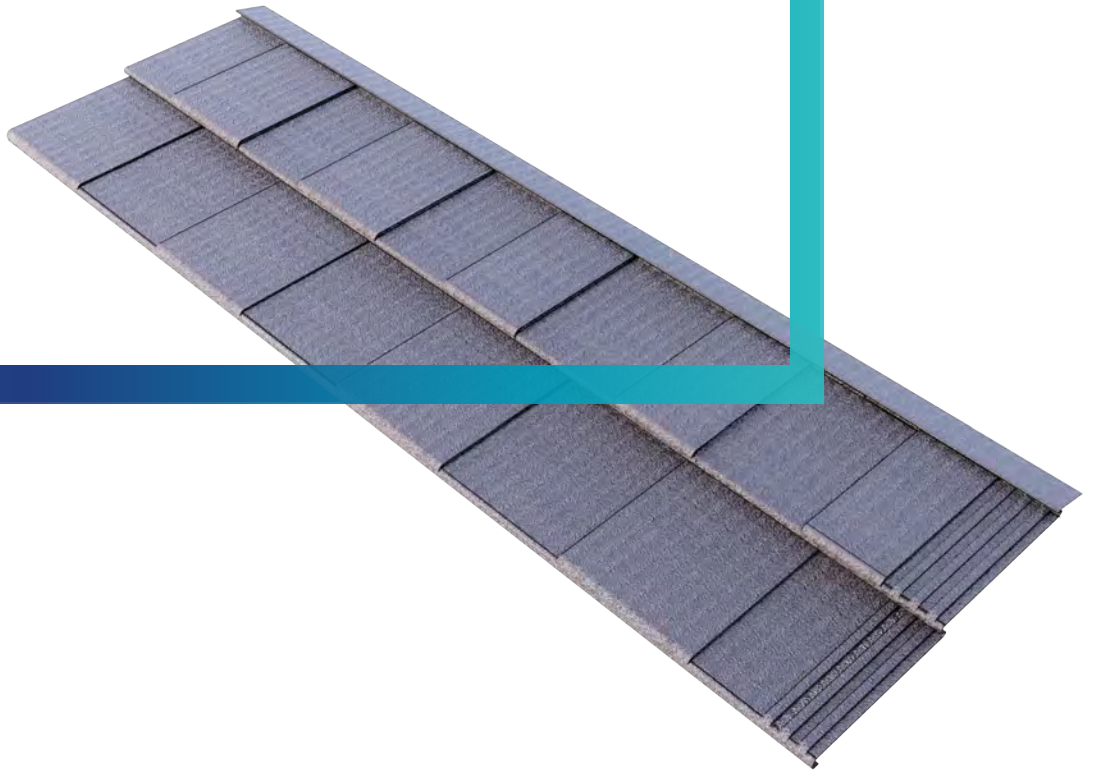
Fix the eaves flashing into the first batten with a minimum 40mm overhang from the fascia into the gutter. Fix with a fastener every 400mm across the eaves flashing.



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



04. TILE INSTALLATION

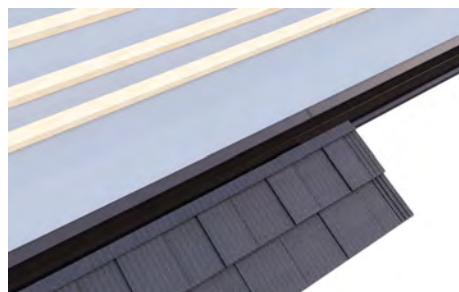


INSTALLATION MANUAL
CF SHAKE & CF SHINGLE ON BATTENS

TILE INSTALLATION

METHOD

Hook the nose of the first panel to the already installed 913 CF Shake/Shingle Eaves Flashing.

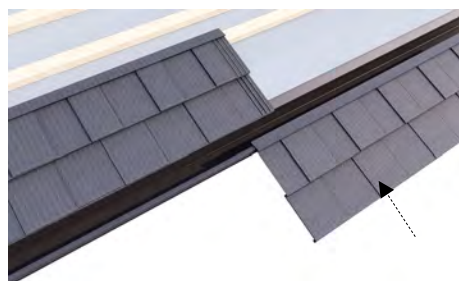


HOOK /
PUSH

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.

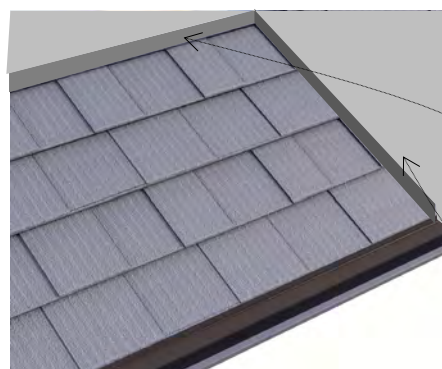
Repeat across and up the plane of the roof.



HOOK /
PUSH

UPSTAND

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



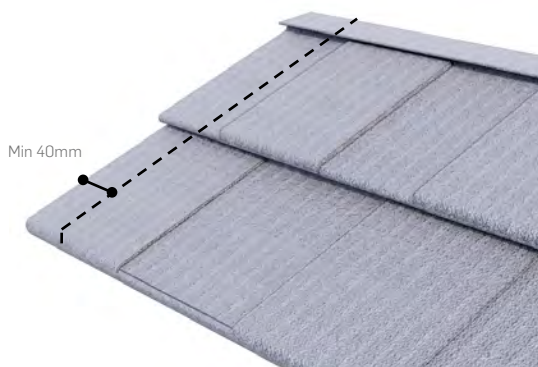
40mm min
upstand

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.

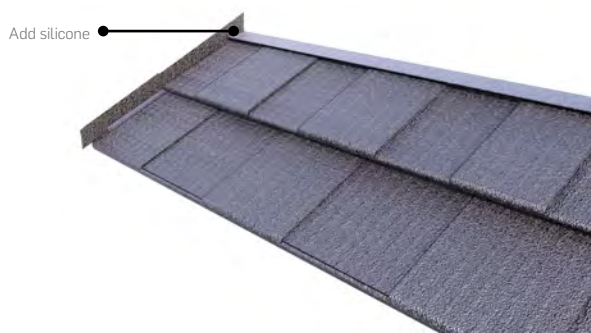
Measure your bend line from the edge of the panel nose and head. There should be a minimum of 40mm from the edge.



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.

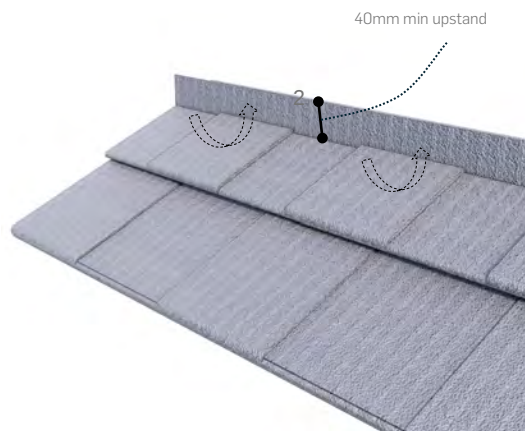


HEAD BEND

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, barge channel, and eaves flashing. Install full roof panels up to the change in roof eaves.



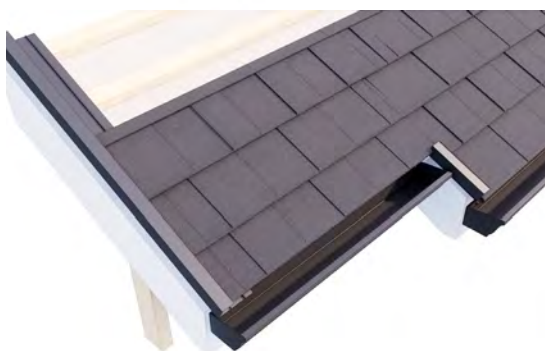
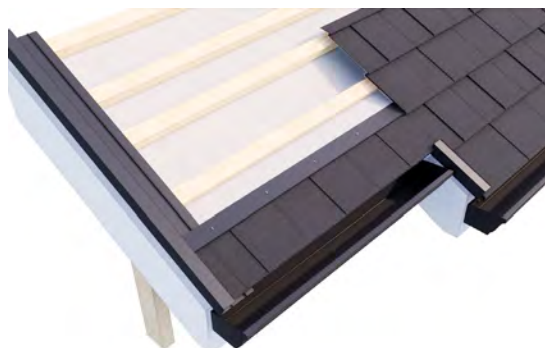
Measure and cut the head off the first course of panels at the short edge of the roof. The head should align with the head of the already-installed panels. Hook the nose over the eaves flashing and fasten in place.



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



Install the second course of panels.

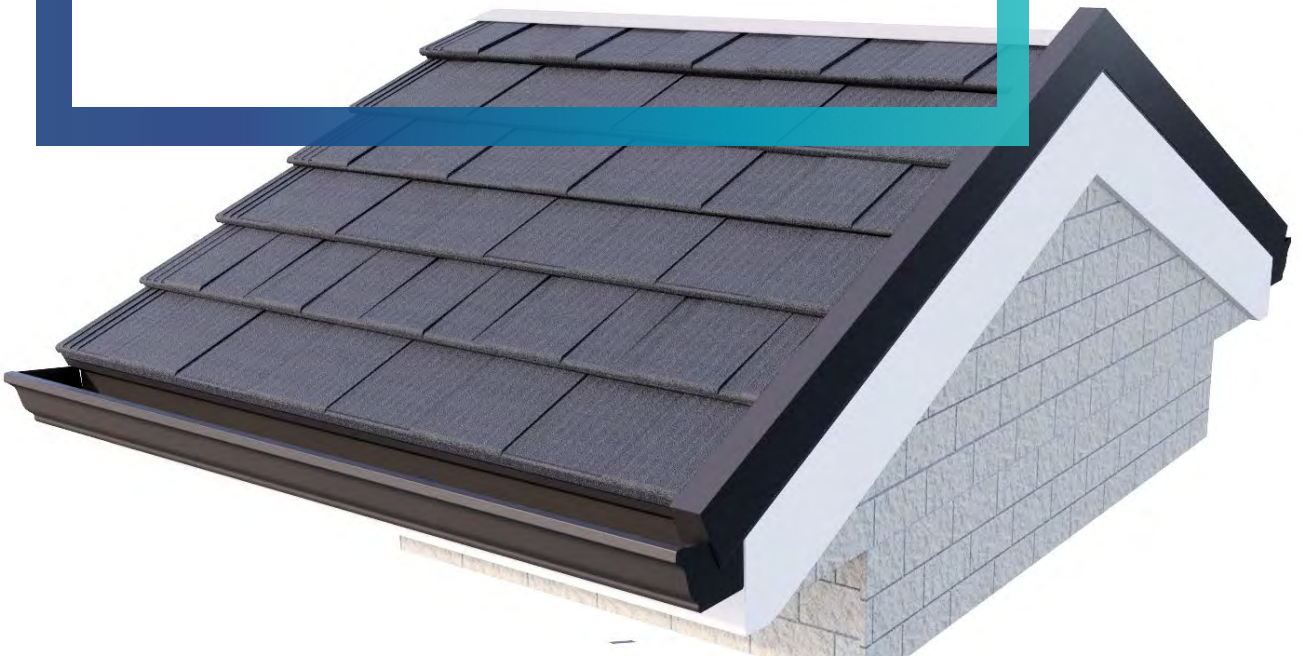


Install the rest of the panels and then finish with the barge cover and ridge trims.

See below for a cutaway of the shortcourse setup.

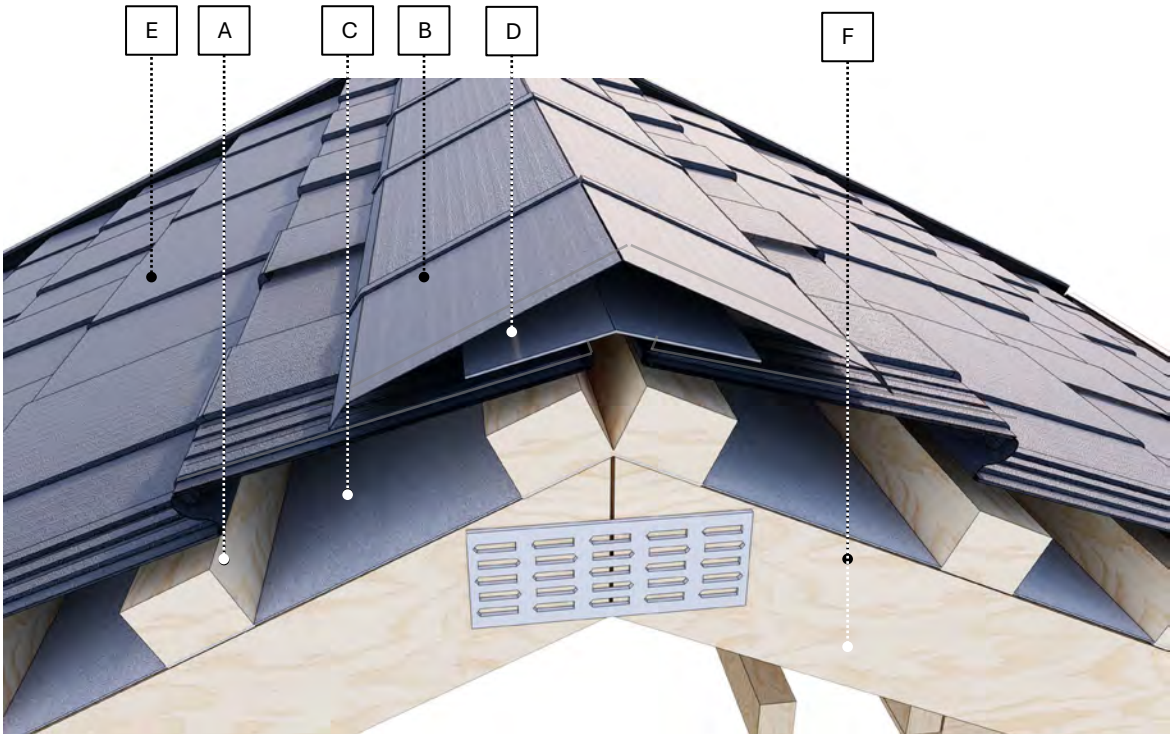


05. AREA SPECIFIC **DETAILS**



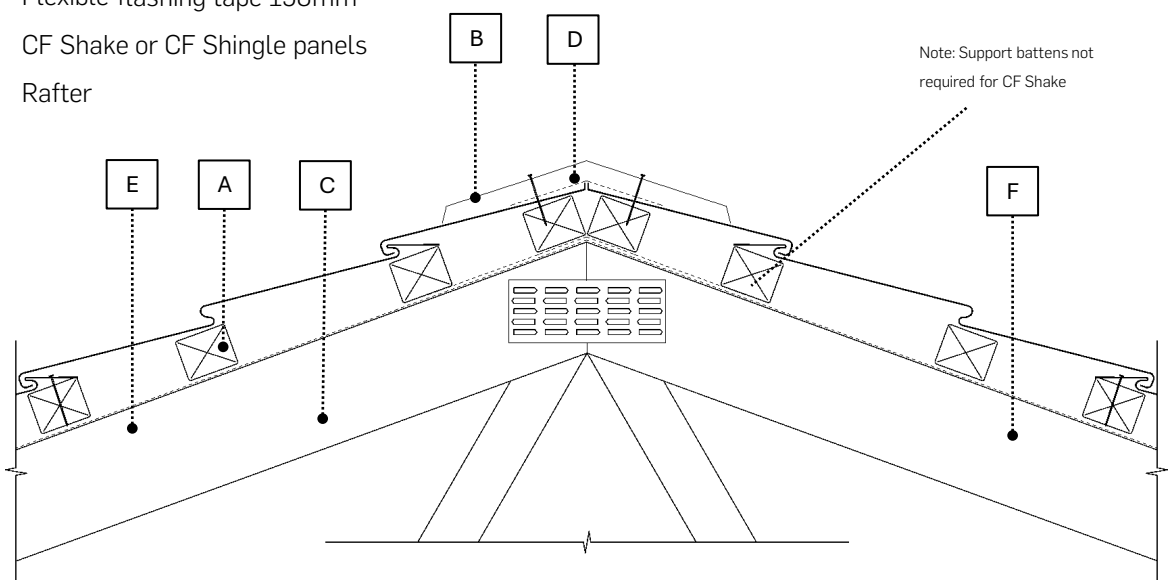
INSTALLATION MANUAL
CF SHAKE & CF SHINGLE

RIDGE DETAIL



COMPONENTS

- A. 40x50mm battens
- B. 914 CF Shake Angle Trim or 400 CF Shingle Angle Trim
- C. Underlay
- D. Flexible flashing tape 150mm*
- E. CF Shake or CF Shingle panels
- F. Rafter



*Flexible flashing tape to be supplied by RoofTG Pacific Ltd

RIDGE INSTALLATION

SETTING OUT

Lay out your first row of battens at the eaves as specified in the Batten Set Out section. For CF Shake install one row of battens. For CF Shingle install one row of battens and one row of support battens.



Install the eaves flashing.



Install underlay across the roof and fasten 40x50mm battens over the underlay. Underlay should be draped over the top of the already-installed batten/s at the eaves.

Once battens are fixed, install barge channel.



TILE INSTALLATION

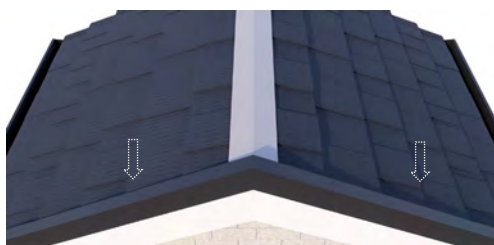
Install your panels, starting at the eaves. Work your way up to the ridge, leaving a 5 – 10mm gap between the panels from both planes of the roof.



Apply flexible flashing tape to the gap in the ridge.



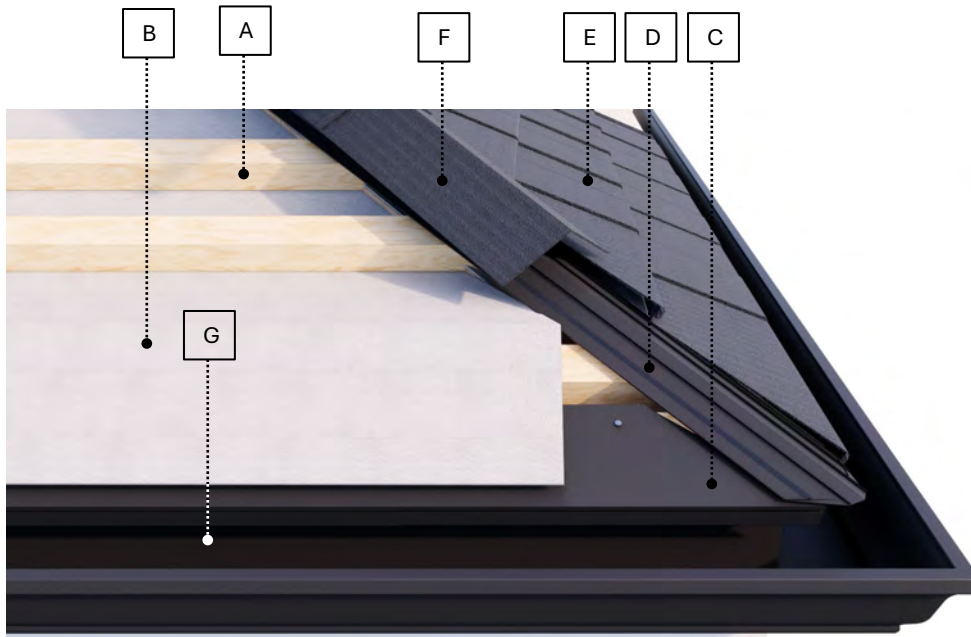
Install the barge cover over the barge.



Install trims at the ridge.

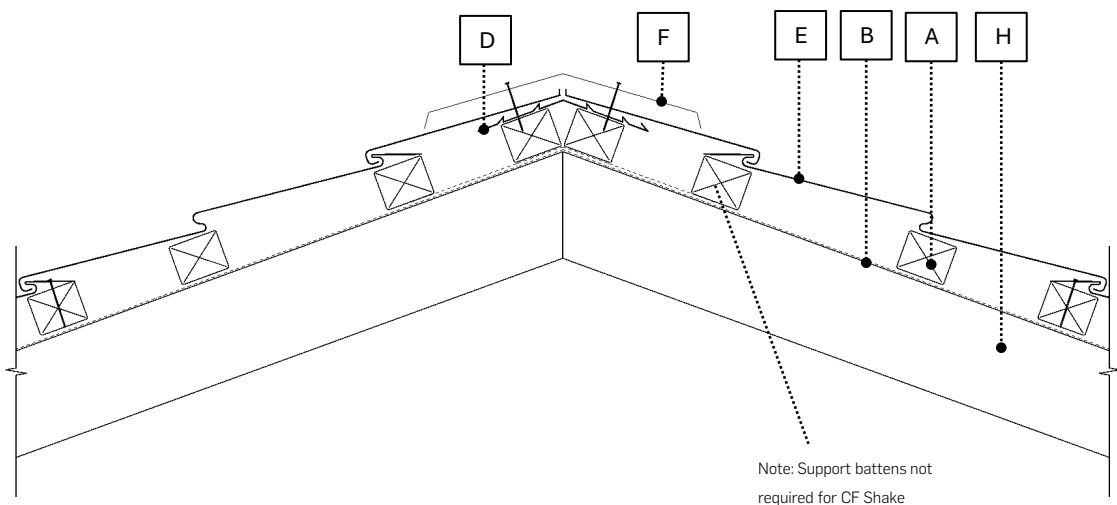


HIP DETAIL



COMPONENTS

- | | |
|--|--|
| A. 50x40mm battens | E. CF Shake or CF Shingle panel |
| B. Underlay | F. 914 CF Shake Angle Trim or
400 CF Shingle Angle Trim |
| C. 913 CF Shake/Shingle Eaves Flashing | G. Gutter |
| D. 904 CF Hip Under Channel | H. Rafter |

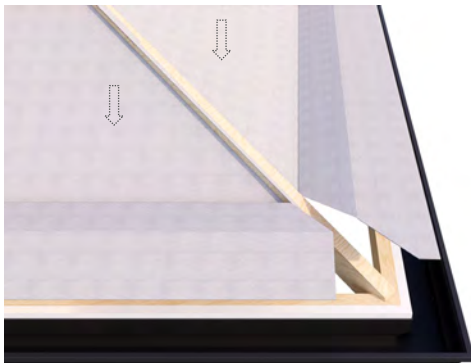


HIP INSTALLATION

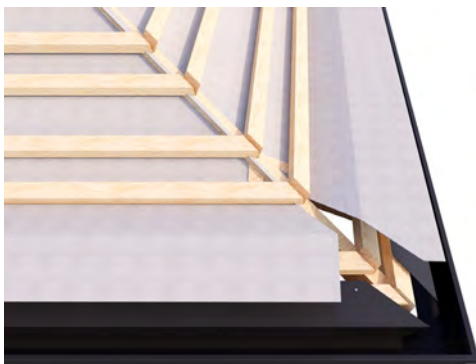
SETTING OUT

Lay out your first row of battens at the eaves. For CF Shake install one row of battens. For CF Shingle install one row of battens and one row of support battens.

Install the eaves flashing at the eaves. Then install underlay across the roof and fasten 40x50mm battens over the underlay.

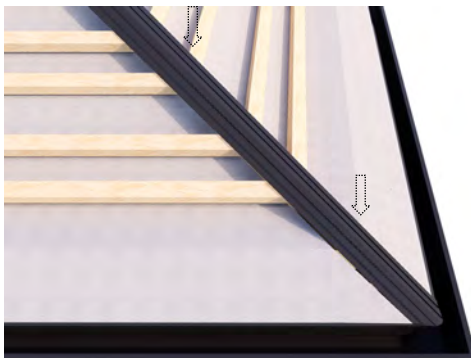


Underlay should be draped over the top of the already-installed batten/s at the eaves.

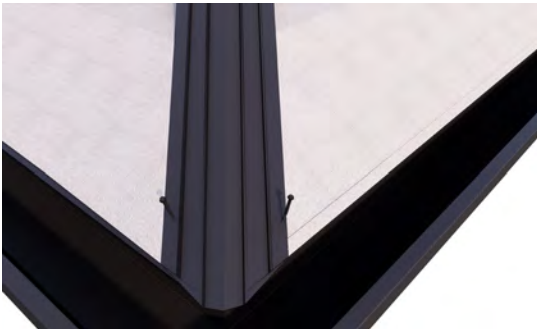


INSTALLATION

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



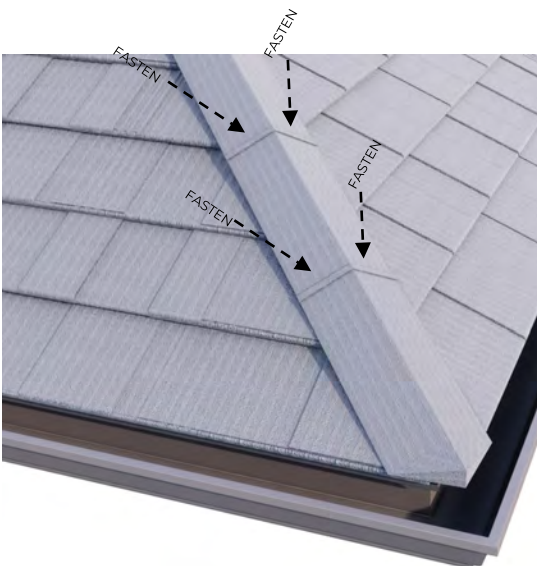
Screws or nails should be fixed to the battens through the farthest edge, avoiding the weather channels.



Install your panels, starting at the eaves.



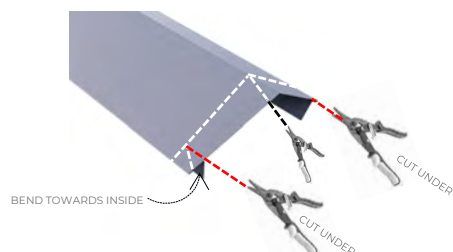
Install trim.



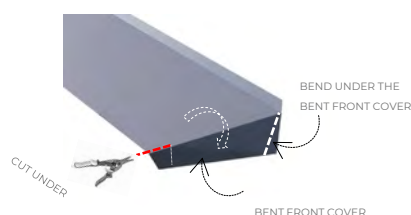
TRIM INSTALLATION

CUTTING AND FOLDING

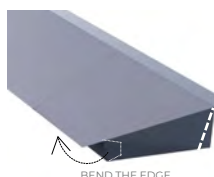
Prepare your first trim for installation. Using a 914 CF Shake Angle Trim or 400 CF Shingle Angle Trim, cut the fold of the nose off. Then cut the in the middle, slightly off-centre, and on the sides of the nose.



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

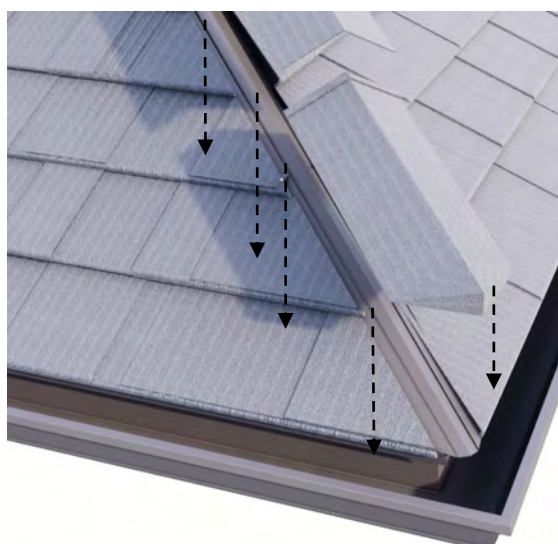


Fold in the edges if required. Trim off excess if required.



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



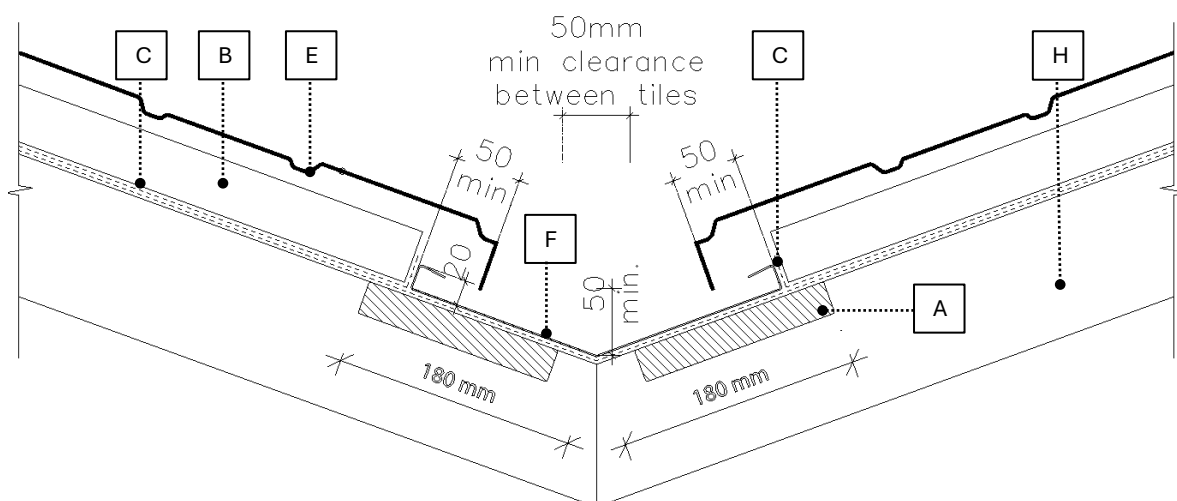
Hook the nose of the next trim into the head fold of the already-installed trim, then fasten to the battens at the ridge. Continue this method along the ridge.

VALLEY DETAIL



COMPONENTS

- | | |
|--|------------------------------|
| A. Valley board (by builders) | F. 116 Valley Wide or 906 CF |
| B. 40x50mm battens | Shake/Shingle Valley |
| C. Underlay | G. Gutter (by builders) |
| D. 913 CF Shake/Shingle Eaves Flashing | H. Rafter |
| E. CF Shake or CF Shingle panels | |

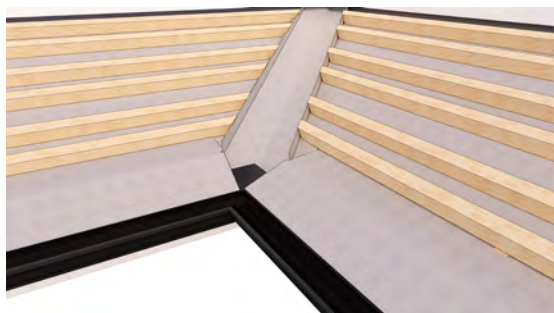


Note: Valley trays are held in place with a clip or nail bent over the top of the valley. Do not nail inside the valley.

VALLEY INSTALLATION

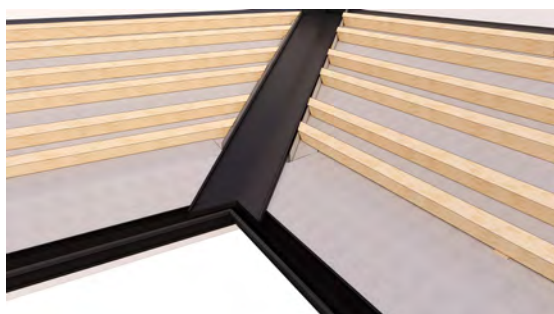
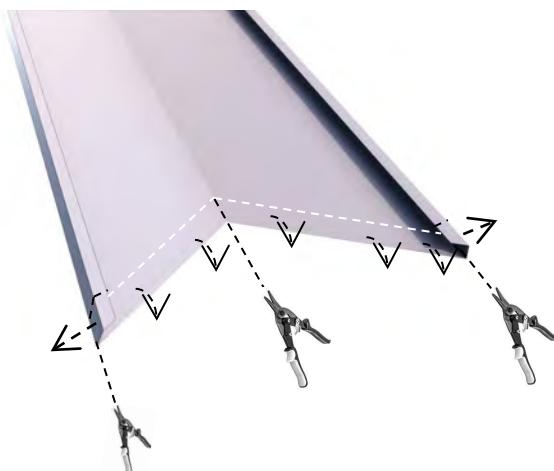
SETTING OUT

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.



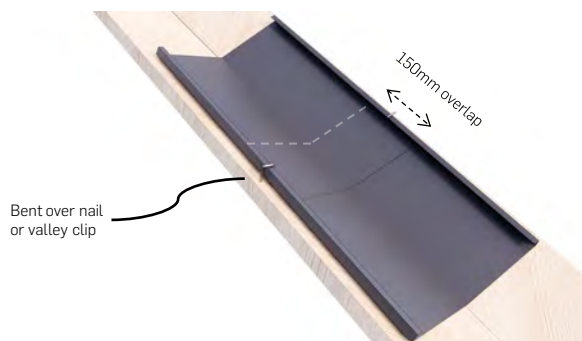
INSTALLATION

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.

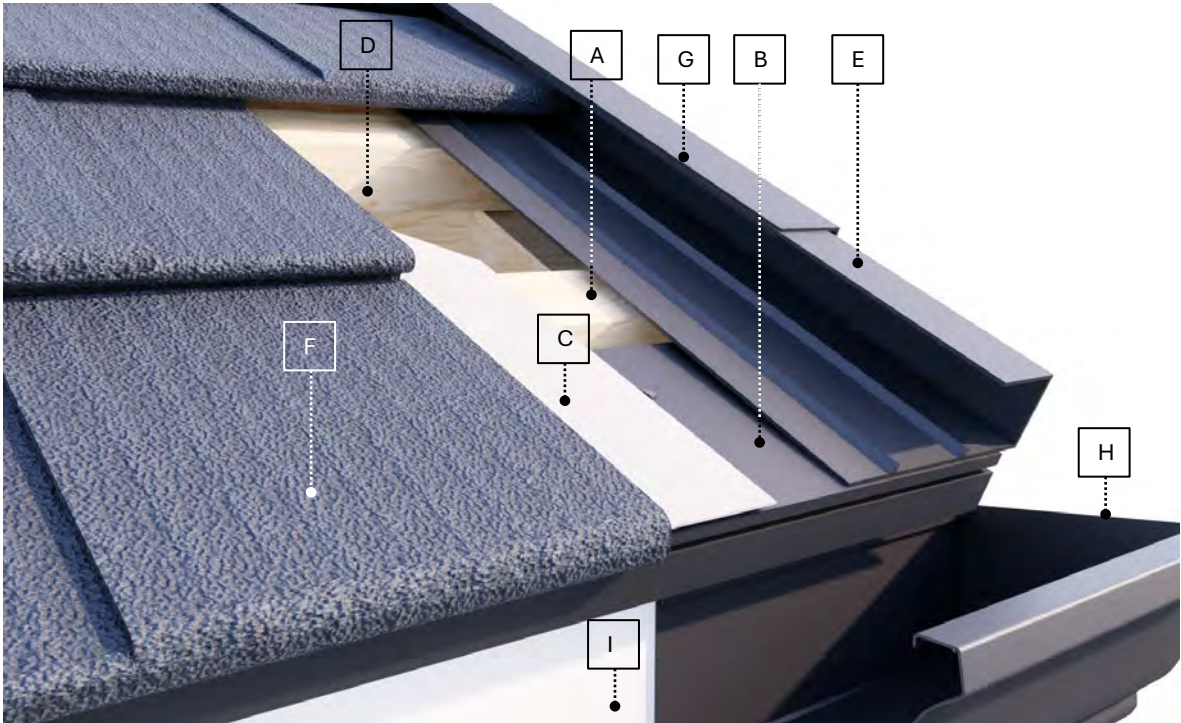
Slide the second valley tray into the first. Add silicone between the trays, across the entire width. The valley trays should overlap by 150mm.



Install CF Shake or CF Shingle 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.

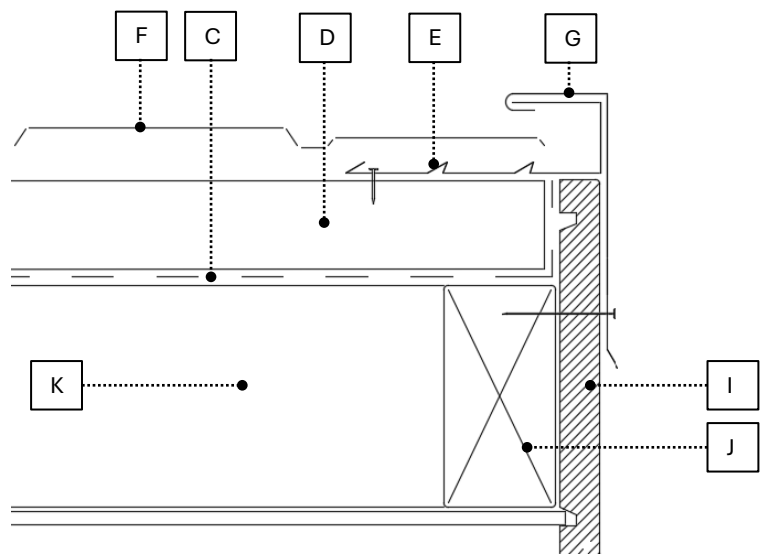


BARGE DETAIL



COMPONENTS:

- A. 40x50mm battens behind fascia
- B. 913 CF Shake/Shingle Eaves Flashing
- C. Underlay
- D. 40x50mm battens
- E. 905 CF Shake/Shingle Barge Channel
- F. CF Shake or CF Shingle panel
- G. 903 CF Shingle Barge Cover
- H. Gutter
- I. Fascia board
- J. Rafter
- K. Outrigger



BARGE INSTALLATION

CUTTING AN END

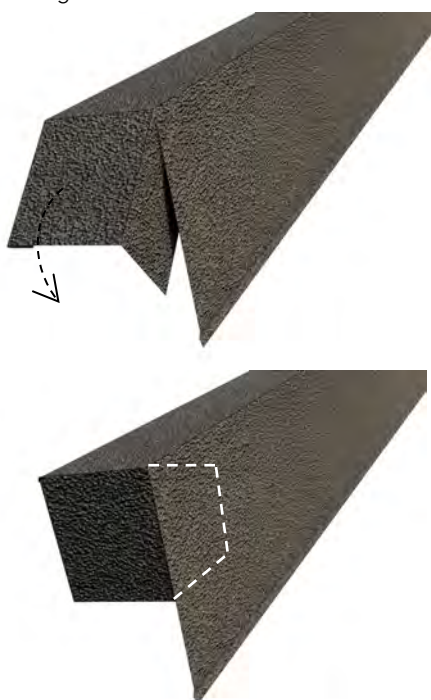
Measure 55mm (approx.) from the front of the barge cover. Cut up the long edge of the cover.



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

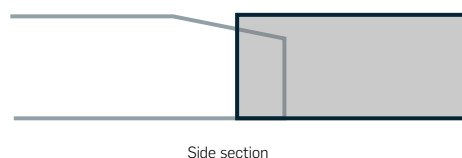
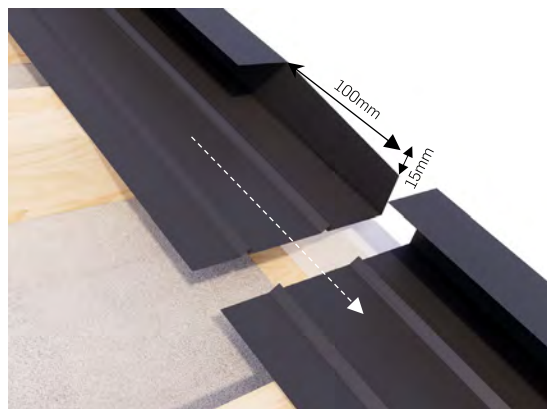


Fold in the flap slightly and fold the front down creating a box-end.



NOTCHING – BARGE CHANNEL

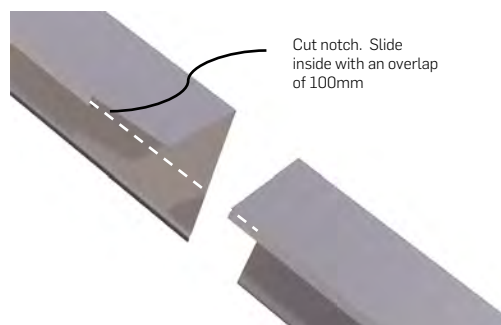
Notch the barge channel by cutting 100mm up the side of the top and cut it off. Cut the top of the side on an angle to a depth of 15mm. This makes it easy to fit subsequent pieces into already installed barge channel pieces.



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.

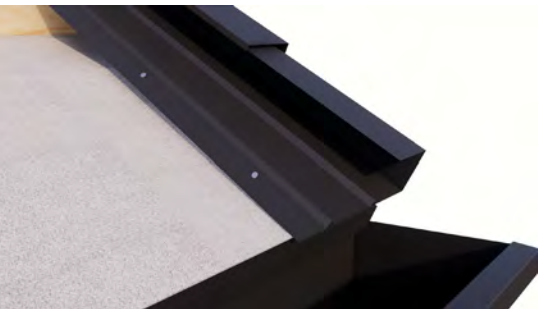
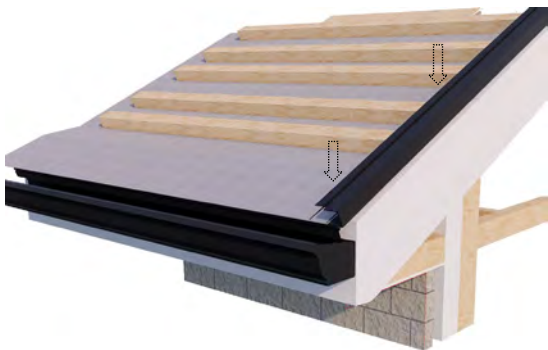


BARGE INSTALLATION

INSTALLATION

After installing underlay and 40x50mm battens across the plane of the roof, install a barge channel at the fascia. The outer wall of the barge channel should sit flush with the fascia.

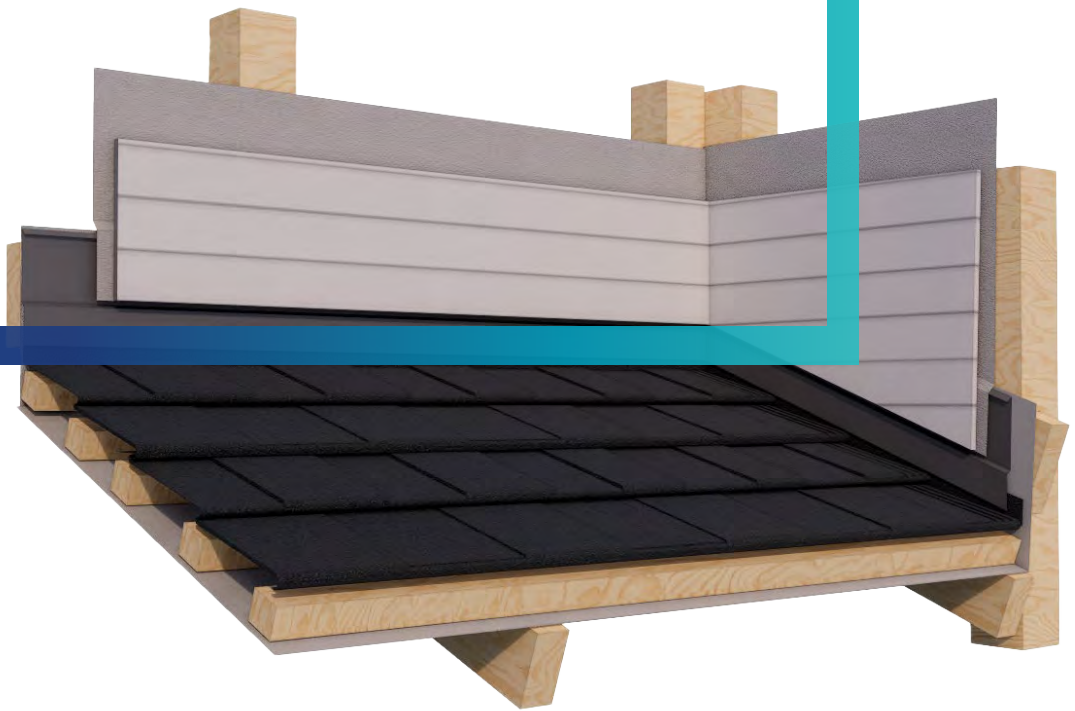
Fasten with a screw, taking care to place the screw away from the weather channels.



Install the CF Shake or CF Shingle panels across the roof. Hook the barge cover over the top of the barge channel, with the tail covering the fascia. Fasten horizontally through the fascia into the rafter.

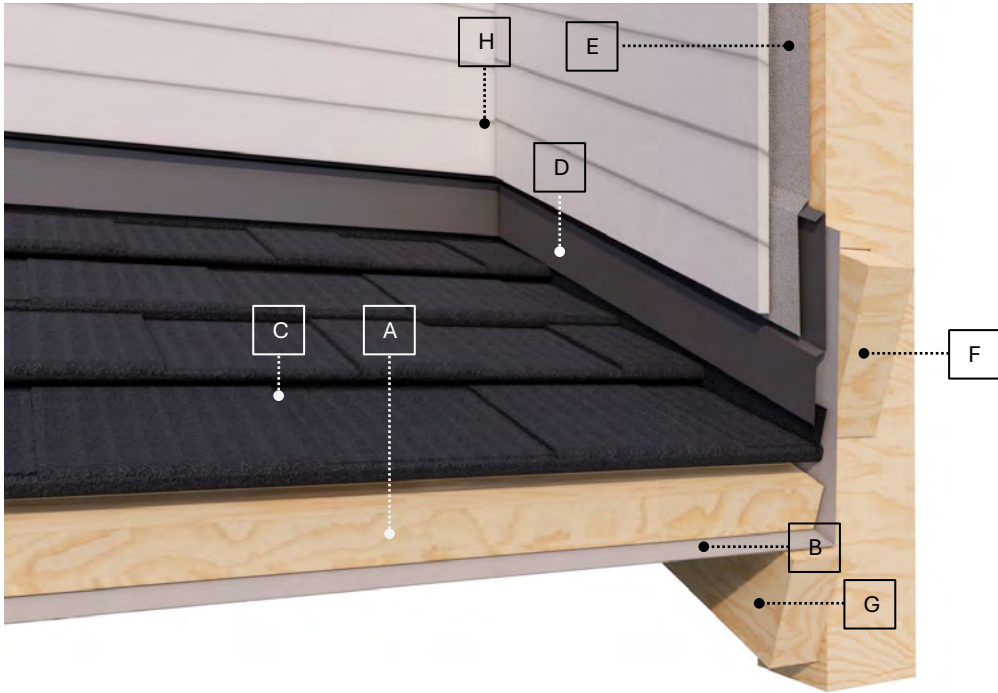


06. WALL JUNCTIONS



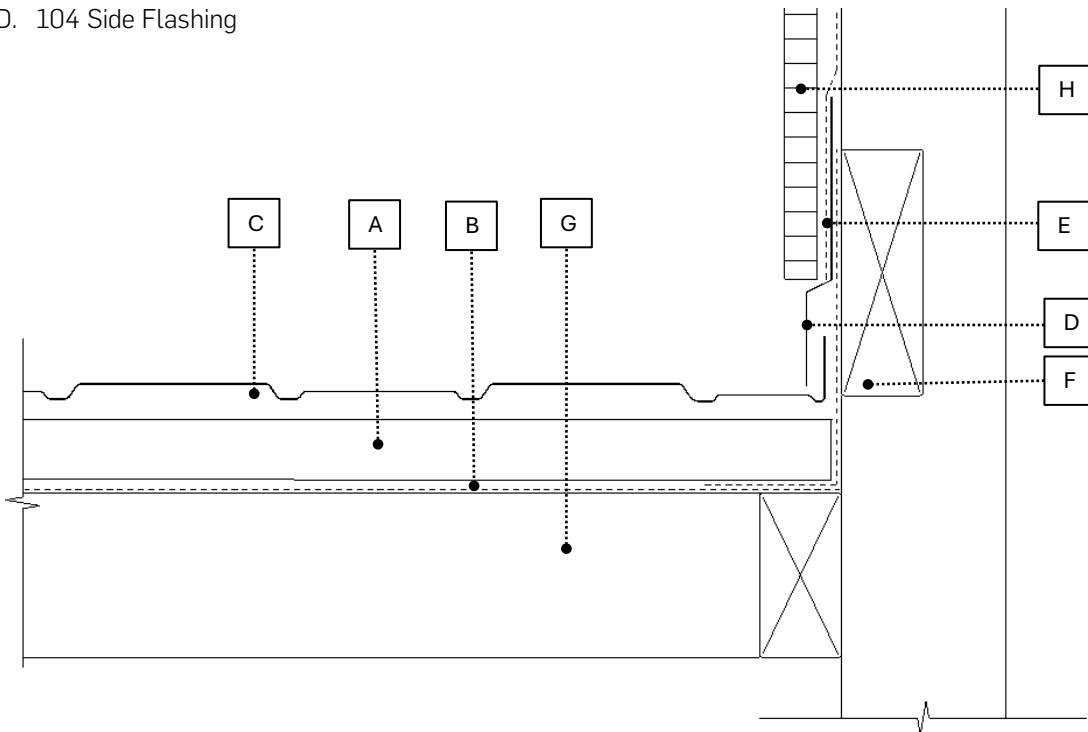
INSTALLATION MANUAL
CF SHAKE & CF SHINGLE ON BATTENS

SIDE WALL DETAIL



COMPONENTS

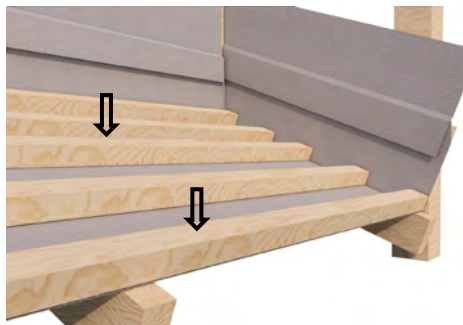
- | | |
|---|--------------------------------|
| A. 40x50mm battens | E. Wall underlay (by builders) |
| B. Underlay | F. Support nog (by builders) |
| C. CF Shake or CF Shingle panel
(40mm min upstand) | G. Rafter |
| D. 104 Side Flashing | H. Wall cladding (by builders) |



SIDE WALL INSTALLATION

SETTING OUT

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 40x50mm battens over the top of the roof underlay.



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

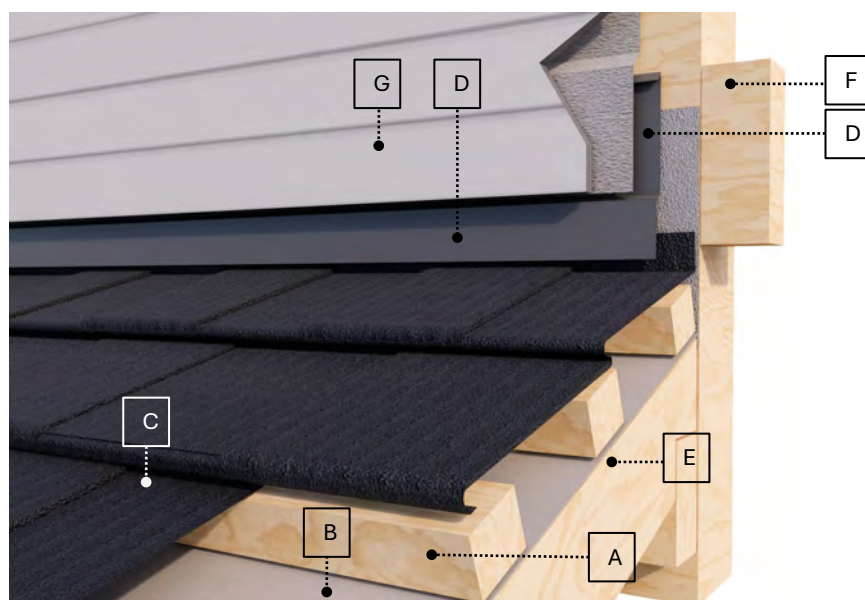


Fix the side flashing to the support nog in the wall. Wall underlay should lay over the top of the side flashing, while the roofing underlay should lie between the side flashing and the wall.



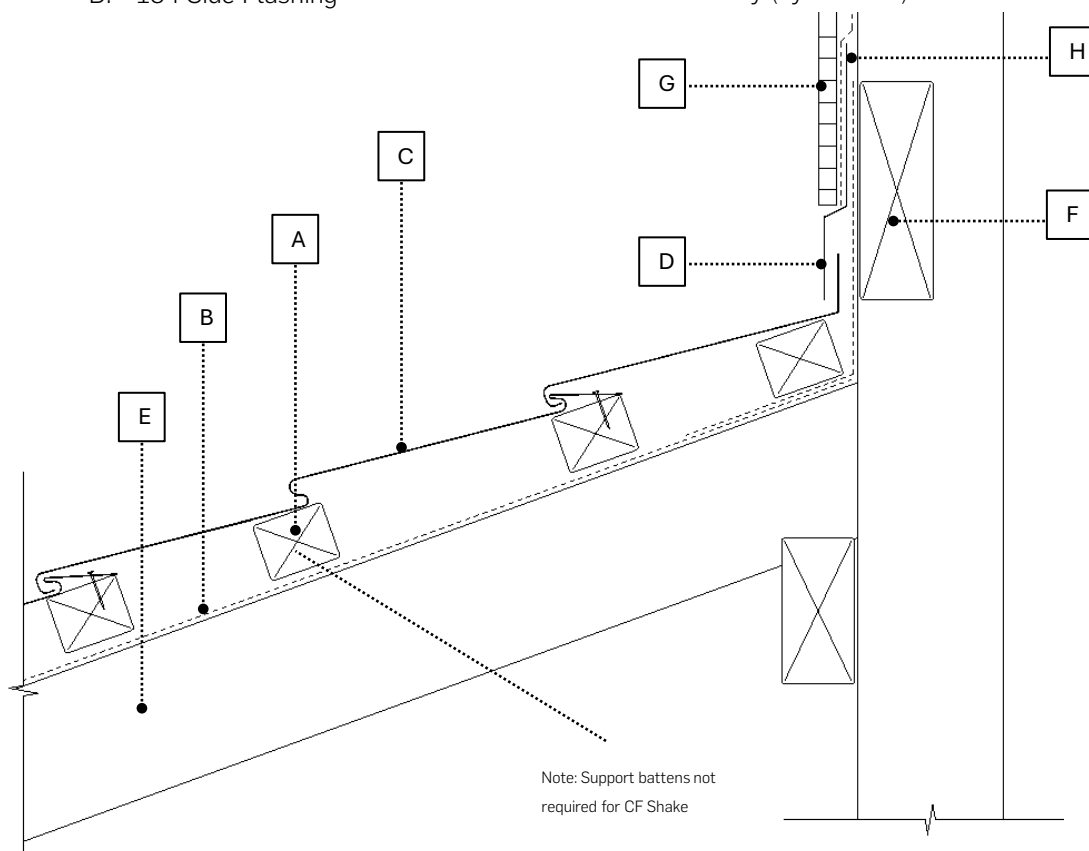
Once side flashings are installed, the builders can install the wall cladding.

HEAD WALL DETAIL



COMPONENTS

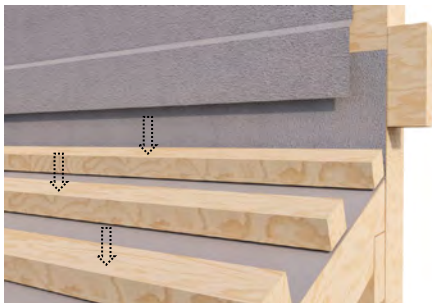
- | | |
|---------------------------------|--|
| A. 50x40mm battens | E. Rafter |
| B. Underlay | F. Support nog (by builders) |
| C. CF Shake or CF Shingle panel | G. Wall cladding/stucco/siding (by builders) |
| D. 104 Side Flashing | H. Wall underlay (by builders) |



HEAD WALL INSTALLATION

SETTING OUT

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 40x50mm battens over the top of the roof underlay.



Install CF Shake or CF Shingle 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.

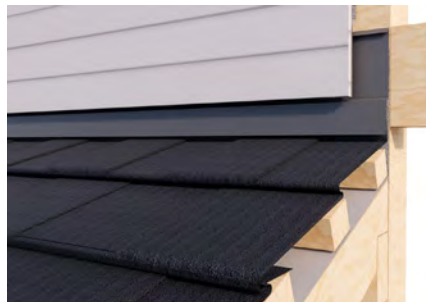


Fix the side flashing to the support nog in the wall. Wall underlay should lay over the top of the side flashing.



40mm minimum
upstand

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



07. ROOF PENETRATIONS



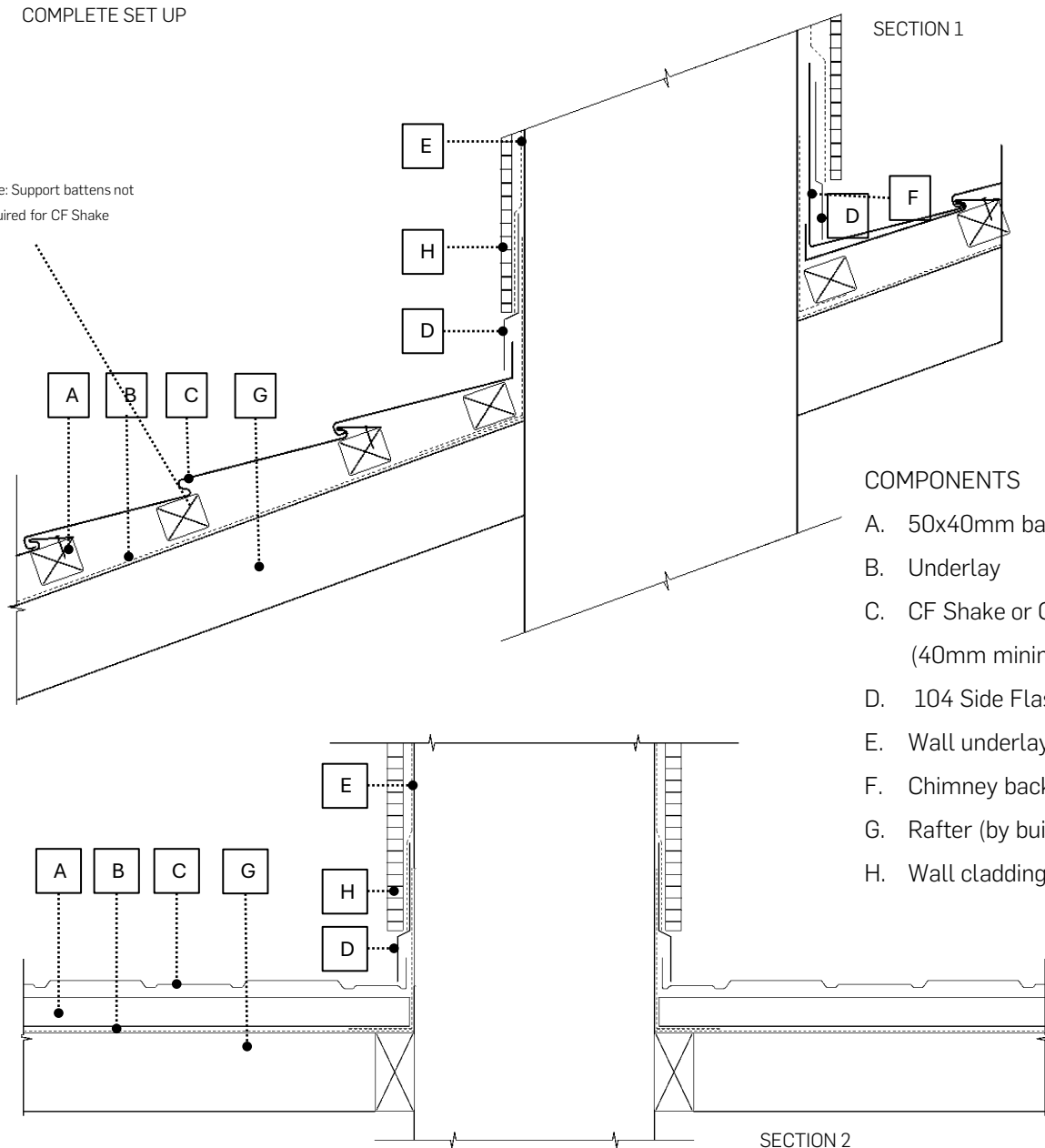
INSTALLATION MANUAL
CF SHAKE & CF SHINGLE ON BATTENS

CHIMNEY PENETRATION DETAIL



COMPLETE SET UP

Note: Support battens not required for CF Shake



COMPONENTS

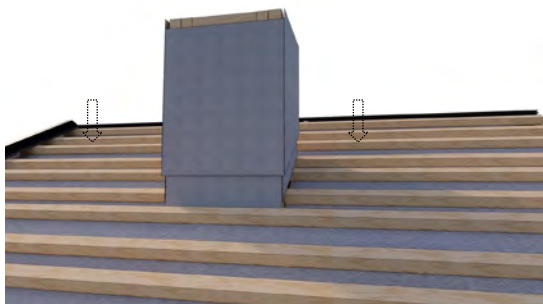
- A. 50x40mm battens
- B. Underlay
- C. CF Shake or CF Shingle panel (40mm minimum upstand)
- D. 104 Side Flashing
- E. Wall underlay (by builders)
- F. Chimney back flashing
- G. Rafter (by builders)
- H. Wall cladding (by builders)

CHIMNEY PENETRATION INSTALLATION

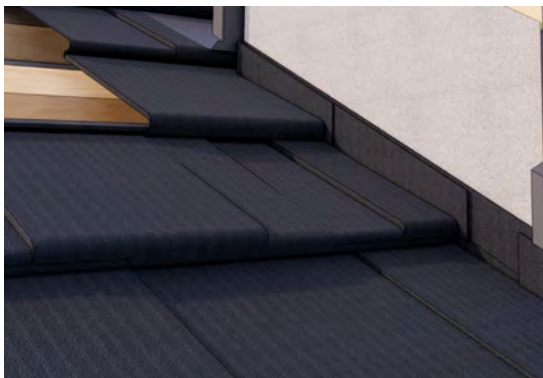
INSTALLATION

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 50x40mm battens across the plane of the roof.



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

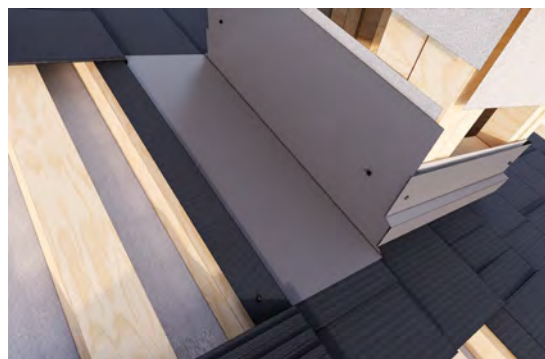


Prepare your back flashing. The head should have a 10mm turn-back to allow the next panel to hook into it.



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.



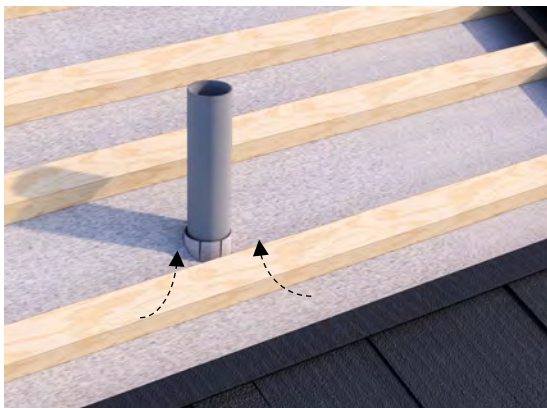
Once completed, the builders can install wall cladding to the chimney.



DEKTITE PENETRATION

INSTALLATION

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



Install CF Shake or CF Shingle 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 fold upwards, creating a turn up around 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.

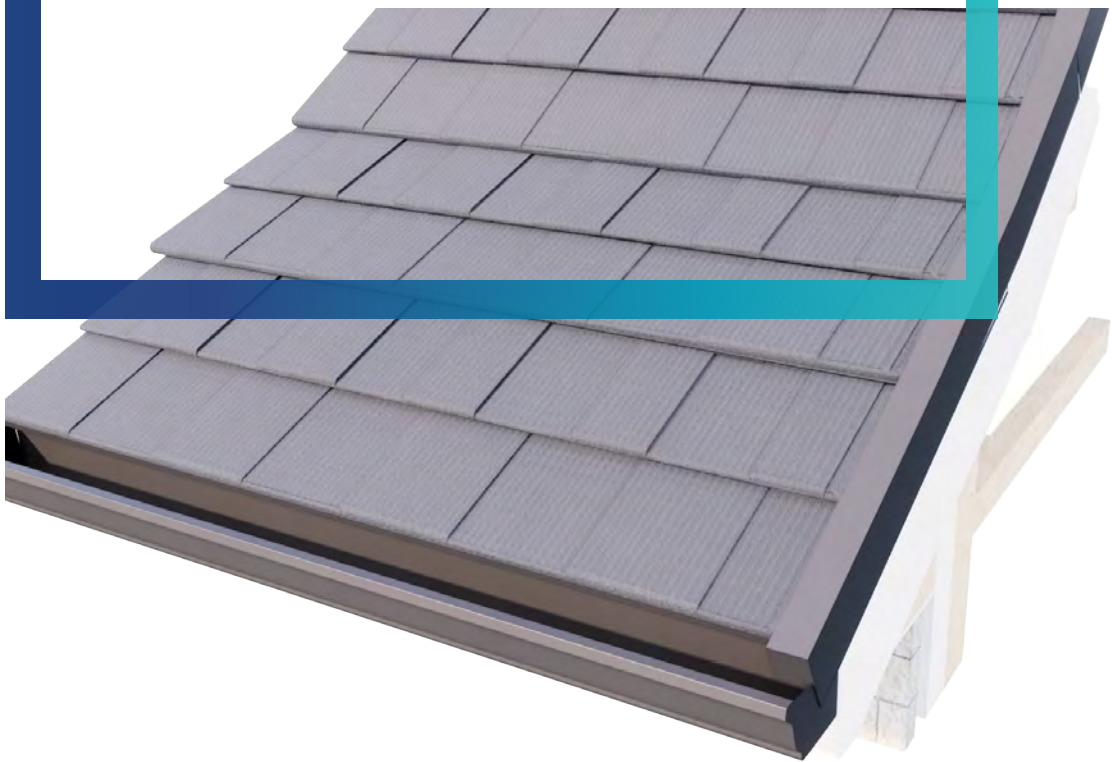
Press pipe flashing into contours of the roof panel.



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

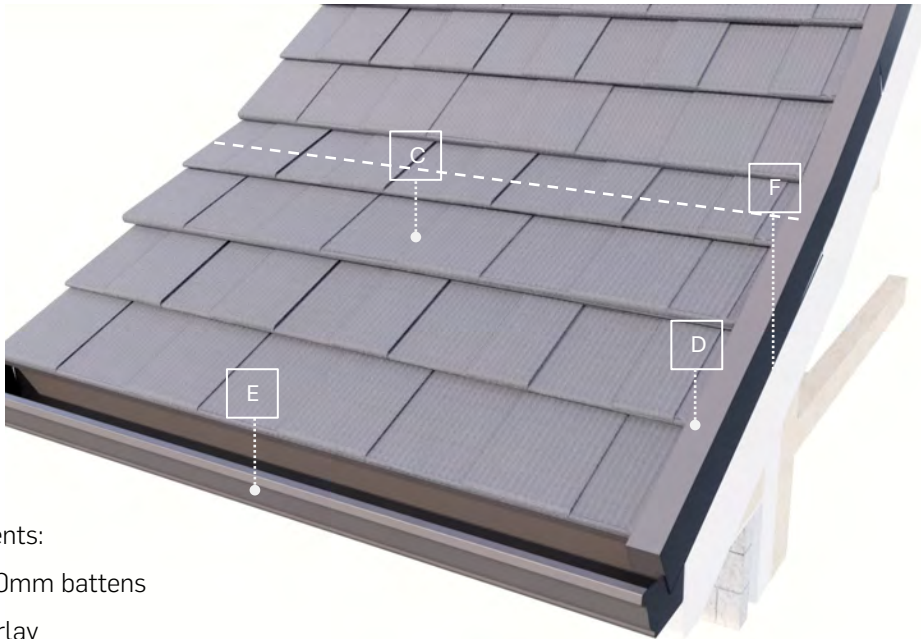


08. OTHER DETAILS



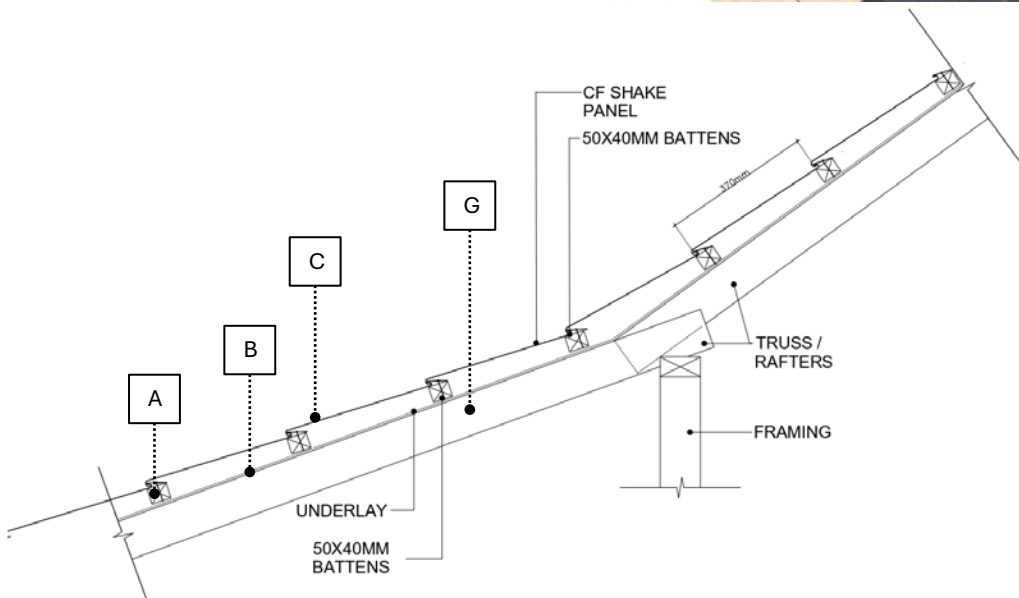
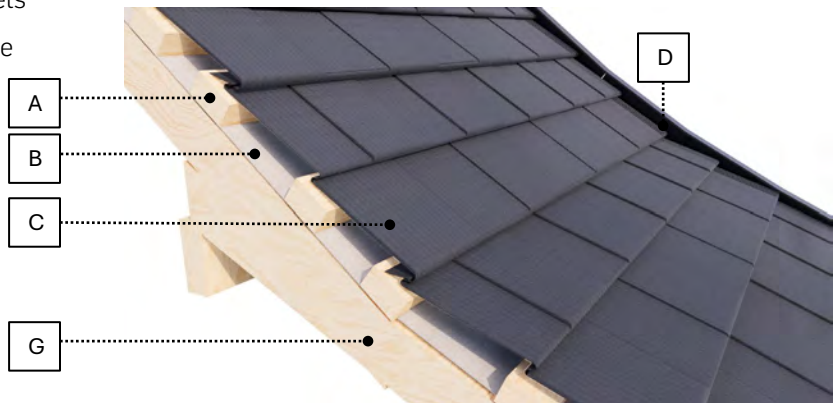
INSTALLATION MANUAL
CF SHAKE & CF SHINGLE ON BATTENS

CHANGE OF PITCH DETAIL

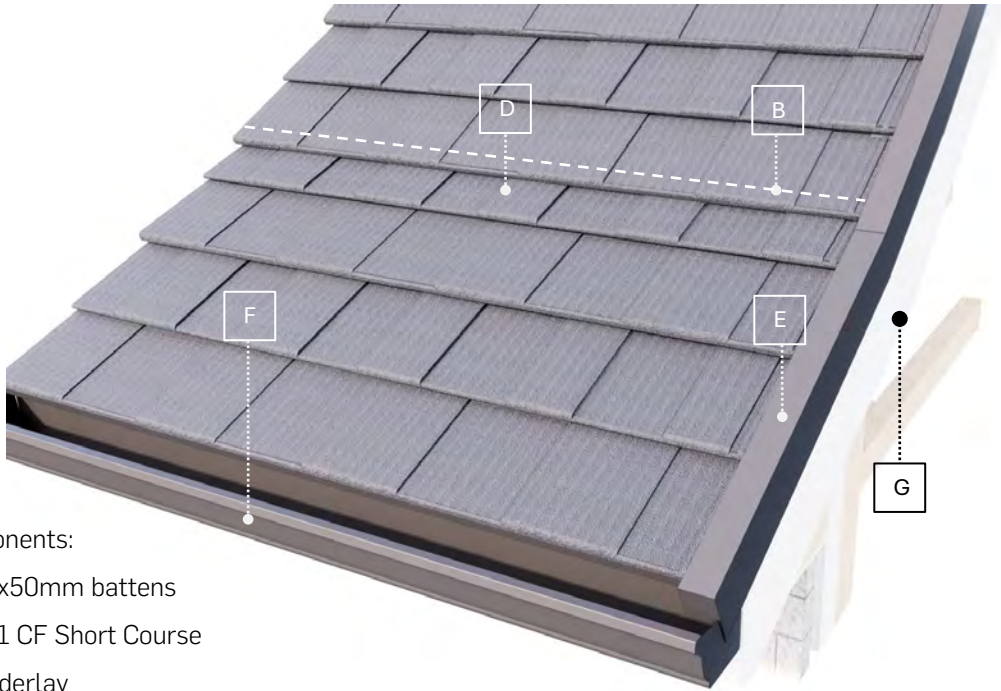


Components:

- A. 40x50mm battens
- B. Underlay
- C. CF Slate or CF Shingle panels
- D. 903 CF Shake/Shingle Barge
Cover
- E. Gutter
- F. Fascia board
- G. Rafter

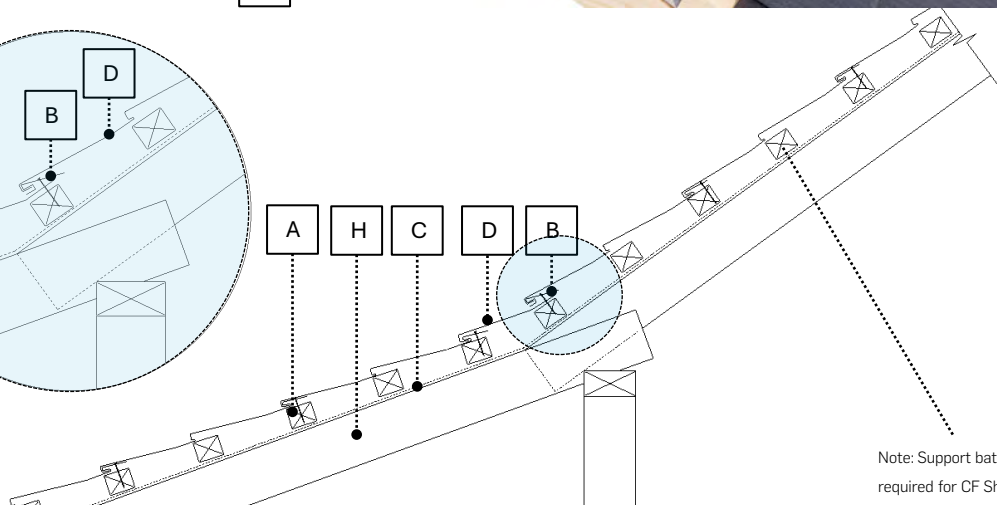
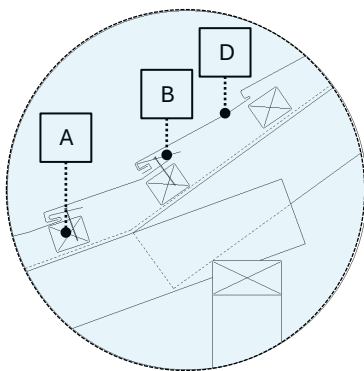
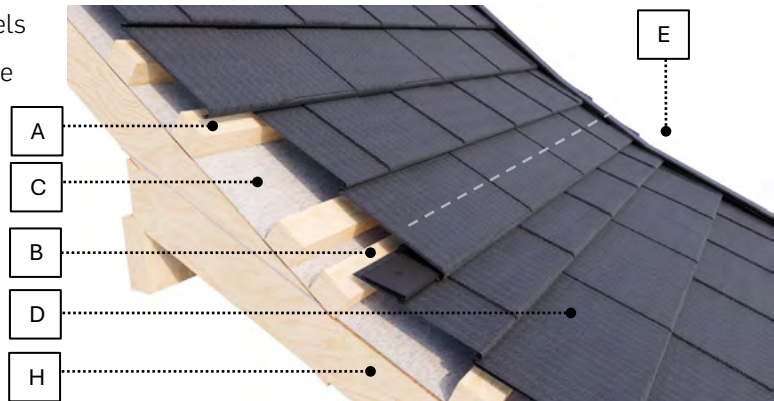


CHANGE OF PITCH DETAIL SHORTCOURSE METHOD



Components:

- A. 40x50mm battens
- B. 901 CF Short Course
- C. Underlay
- D. CF Slate or CF Shingle panels
- E. 903 CF Shake/Shingle Barge Cover
- Cover
- F. Gutter
- G. Fascia board
- H. Rafter



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