

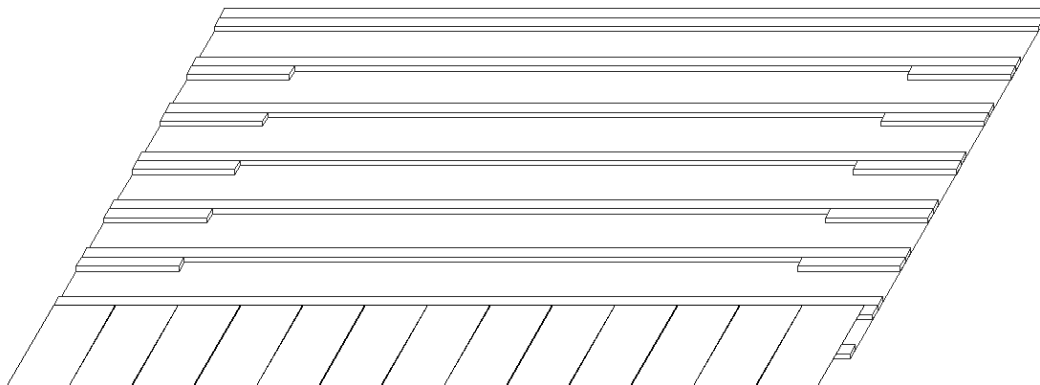
The PV Slate roof tile is designed to integrate into a roof clad with either natural or imitation slates.

### **Initial Roof Batten Layout.**

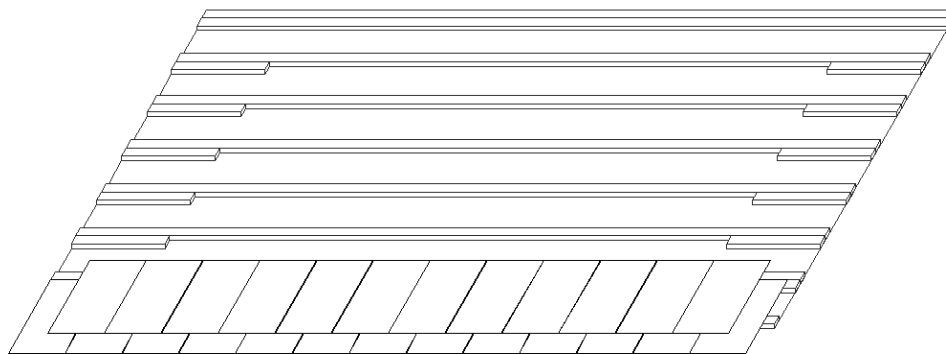
The roof should be battened using 50x25mm batten at a spacing of 270mm. Where natural slates are to be fitted the battens should be doubled up with the extra batten being fitted on the lower side. In areas where the tiles are not to be fitted the batten spacing should be 243mm. **see appendix one batten spacing drawing.**



The lower course natural slates are nailed into place. In line with standard roofing practice inclusive of lower waterproof slate row underneath



The next natural slate course, (the row below the PV Slate) are cut to 450mm and fixed in place using nails and 130mm slate hooks. Trimming the slate to this length allows clearance for the terminal box in the first row of tiles. Between each slate a 130mm slate hook should be inserted. The hook should be nailed in place 10mm below the top of the batten. This hook will support the lower edge of the first row of tiles.



### **PV Slate assembly.**

Each PV Slate is supplied with two hooks. These hooks should be inserted into the grommets leaving the 'hook' side uppermost.



PV Slate hooks  
(Supplied)



Hook location hole with grommet  
(Supplied)

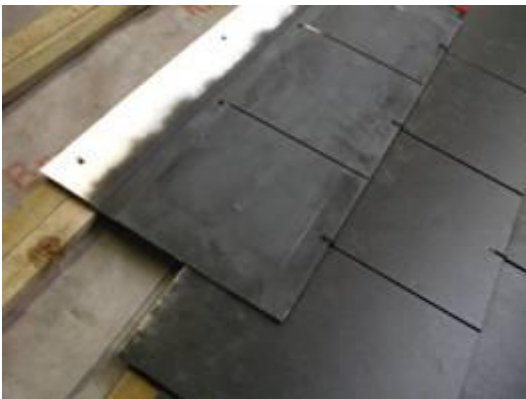
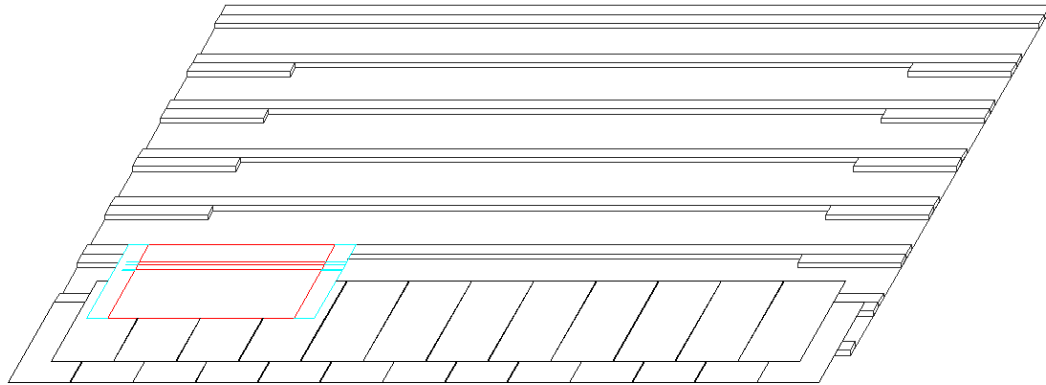


Hook inserted into hole

Hooks in position.



### Installing the PV Slate



The first tile is laid in position and then located into the slate hooks. Do not screw in position just yet.



The left hand flashings are supplied as separate items. Both sides have silicon sealing tape applied. The tape is protected by the coloured plastic strip.

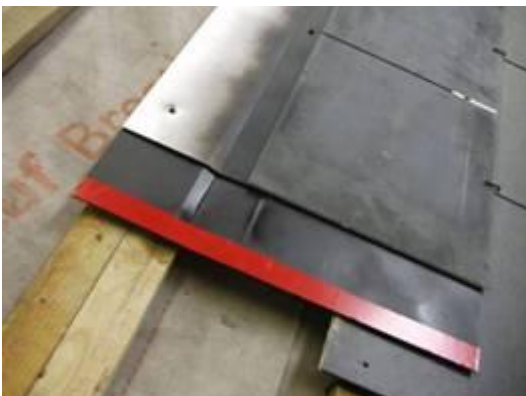
## PV SLATE ROOF INSTALLATION GUIDE



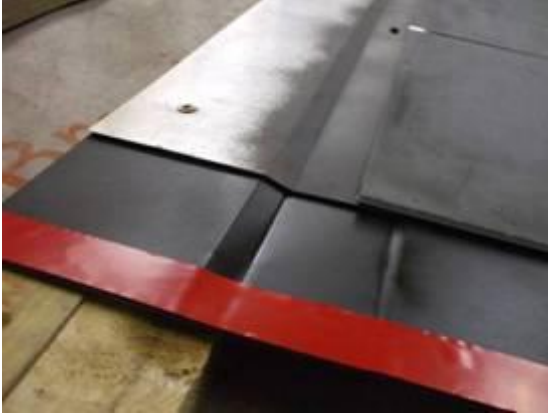
The left side flashing is designed to fit under the side of the PV Slate on the left hand side. At the end of each PV Slate row or the start of each PV Slate row (dependant on working left to right or right to left) to interface with the side course of natural slate. The picture illustrates the location.



The coloured protective film is removed and discarded.



Slide the flashing under the tile and apply gentle pressure to the tile to adhere the silicon seal to the back-side of the PV Slate.



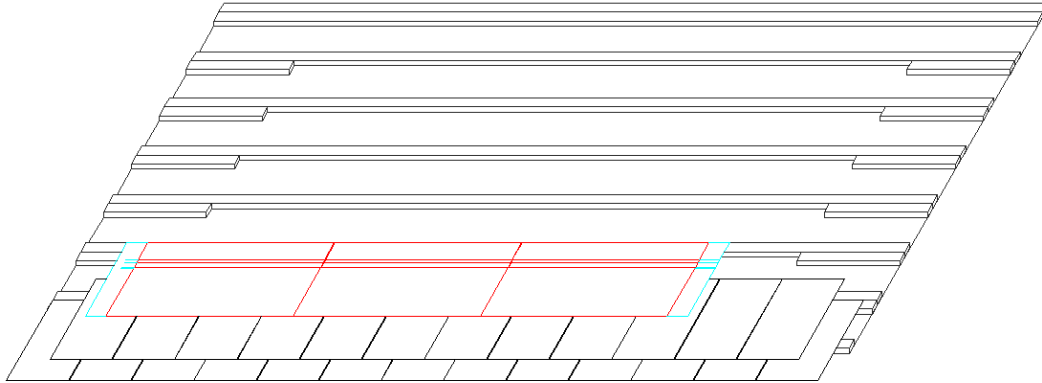
The picture to the left illustrates the flashing in position. The PV Slate can now be screwed in position with the top of the metal support plate flush with the top of the batten.

The remainder of the PV Slates may now be fitted. The right-hand flashing is a component part of the tile module. This flashing is also fitted with silicon sealing tape.

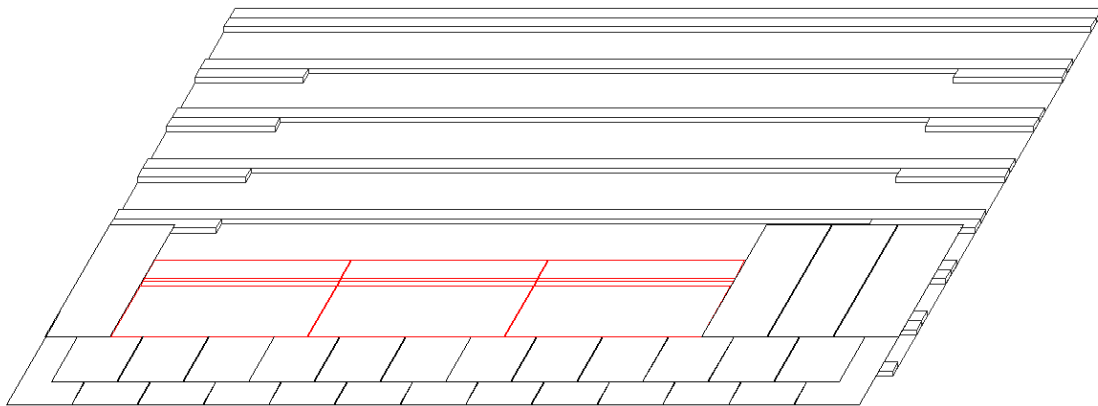


Remove the coloured protective plastic cover and then install the next PV Slate, gently applying pressure to grab the seal before screwing into place. Leave a gap of approximately 3mm between the tiles to maintain the Standard practice slate spacing for expansion

Continue this process until all the tiles in the course are installed.



The edging slates can now be installed to complete the row.



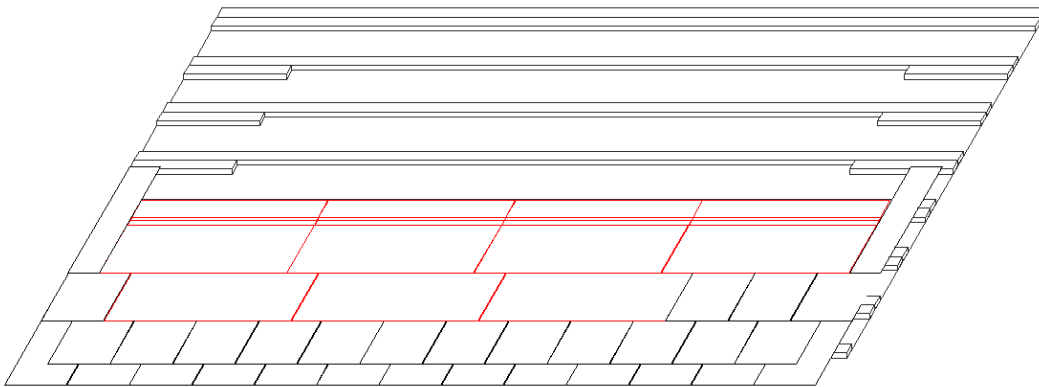
Remove the coloured protective film from the silicon seal prior to fitting the slate. Leave a gap of approximately 3mm between the edge of the tile and the natural slate. The fixing nail of the slate may penetrate the flashing.





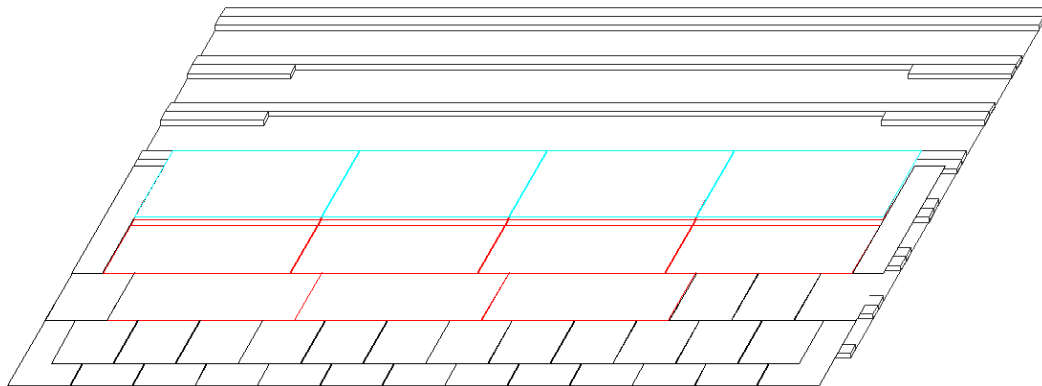
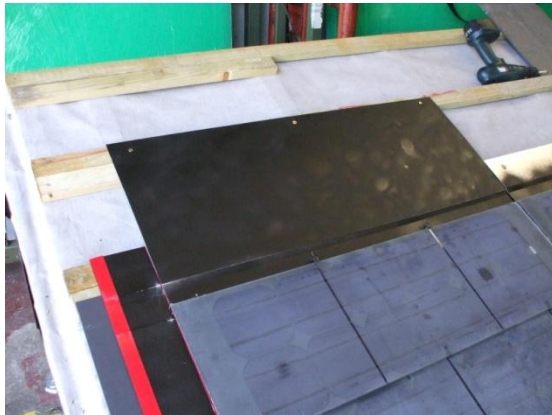
The top of the natural slate will rest on the double batten above.

The next course can now be fitted following the same procedure outlined above.



Continue up the roof until the remaining courses have been installed.

When the top course is in place the remainder of the roof can be slated. The top flashing continues the waterproof integrity layer for the next course of natural slates. The flashing rests on the top tile support plate and is screwed into the batten.

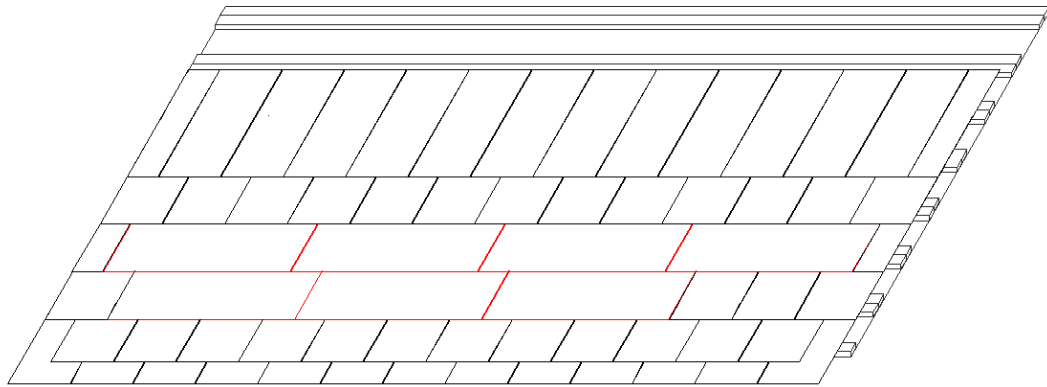


Once the flashing has been fitted the remainder of the slates can be added to the roof and ridge





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APPENDIX ONE: