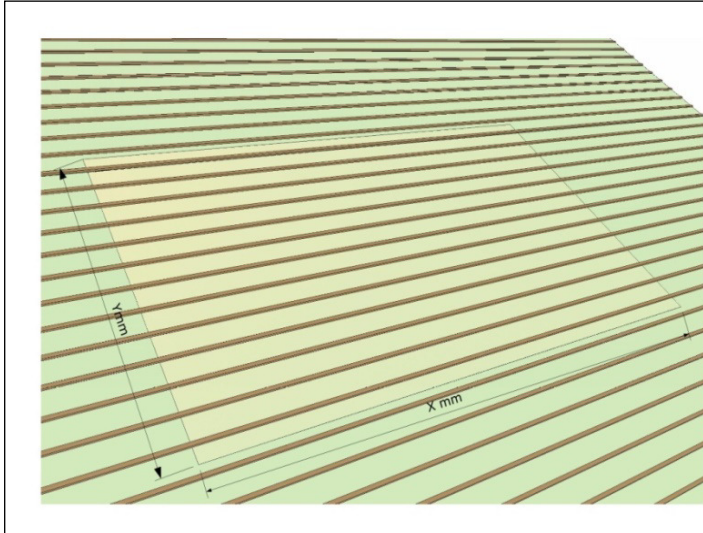
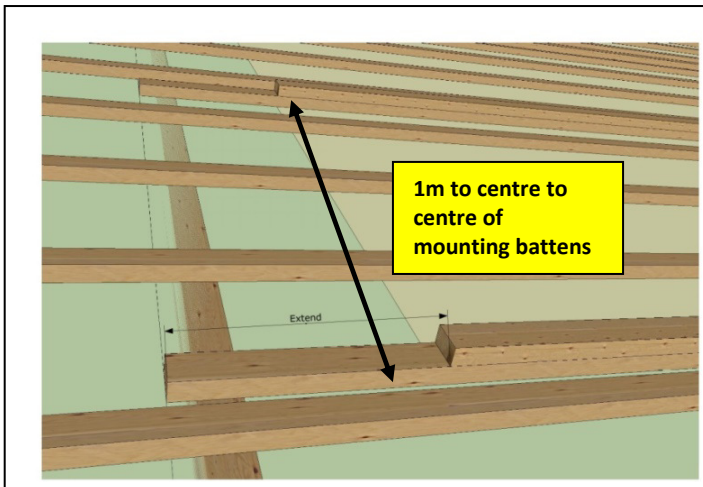


Solfit Installation Manual Version 6



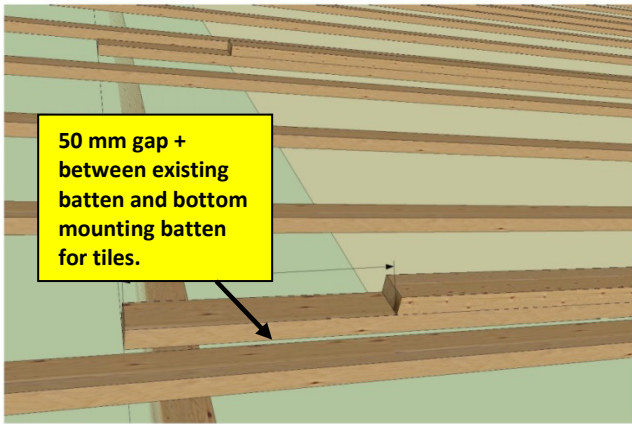
1) Measure size of array

- X (width) = 1.7m x nom of panels
- Y = (height) 1m x number of panels
- Side flashing = 150 mm
- Top flashing = 250mm
- Bottom flashing = 150mm
- **Note;** allow space for 1 x tile or slate at bottom of array or 150mm if using metal bottom flashing. If using lead or lead substitute you can take the array to the bottom flashing of the roof into gutter.



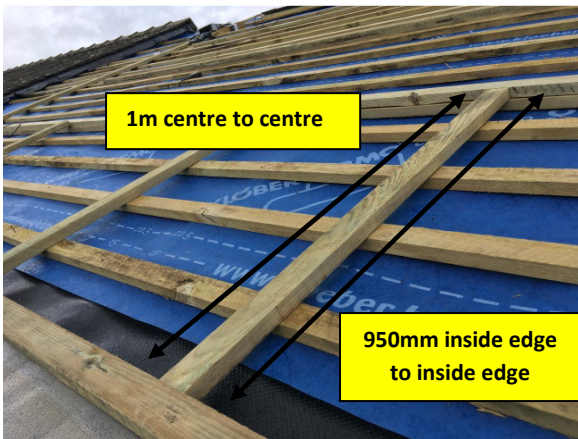
2) Fit mounting battens

- **Use only 25mm x 50mm battens**
- Measure the height of array from bottom of the array up the roof,
- Fit double mounting battens at 1 metre spacing's.
- Upper flashing support single batten 250mm from top mounting batten
- Secure battens with 50mm screws into every rafter



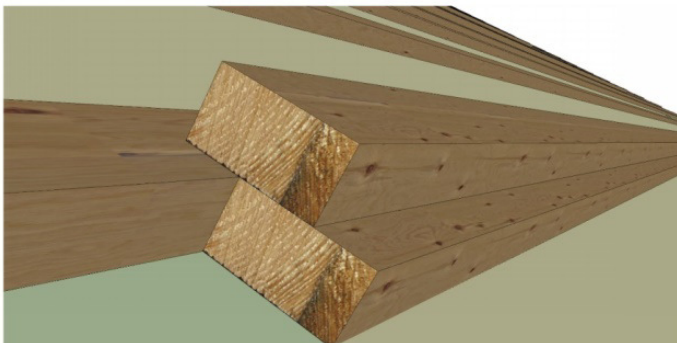
3) 50mm gap between existing & mounting batten

- 50mm gap left between lower existing tiling batten and the lowest panel mounting batten to allow space for the tile nib, **No gap required for slate.**
- **TIP; Use a 25mm x 50mm batten as a spacer**
- No gap required for slates
- Fix lower batten with 1 x 50mm screw per rafter



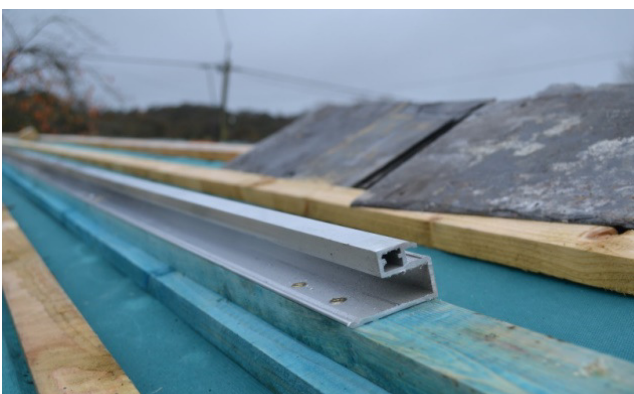
4) Optional use of measuring sticks

- To space mounting battens at 1m spacing's, measuring sticks can be very useful, be sure to cut them square and exact for 48mm batten. $1000\text{ mm} - 50\text{mm} = 950\text{mm}$



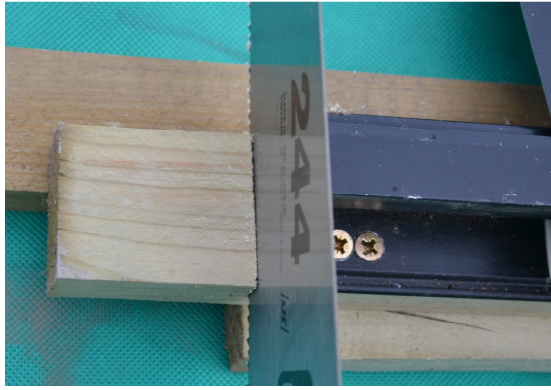
5) Spanning existing battens

- If 1m spaced mounting batten hits an existing batten. Span existing batten mounting battens 1m spacing centre- centre. Fix lower with 1x 50mm screw per rafter
- Fix upper batten with 1 x 50mm screw, 1 x 500m approx.



6) Fit Top Mounting Bars

- Fix top mounting bars straight & parallel
- Bottom edge flush with bottom of top batten
- Secure with 9 screws per bar
- **Very Important! Fit 1 short end mounting profile per array 30mm shorter than all others**



7) Cut top mounting batten

- Cut top mounting batten flush with LHS end of mounting profile



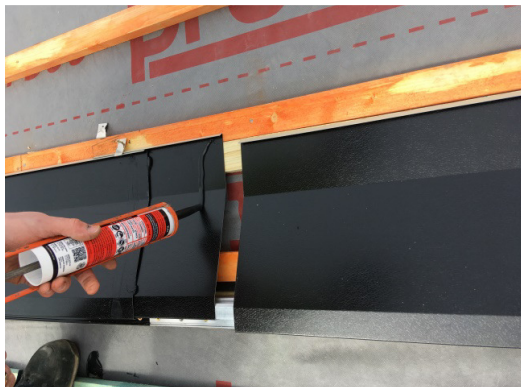
8) Cut top mounting batten

- Cut batten flush with the RHS edge of mounting profile



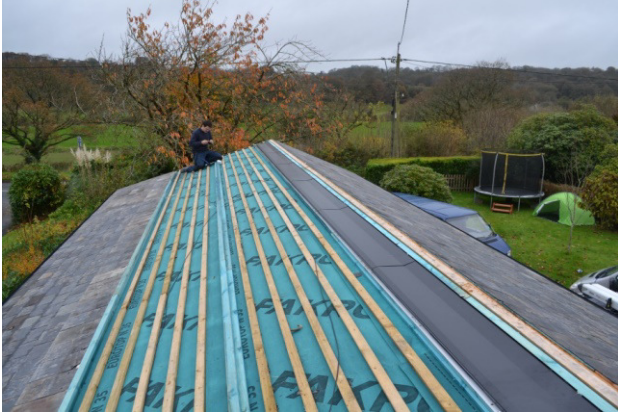
9) Fix top flashing

- Fix top flashings with flashing clips or secure with screws into top flashing batten



10) Fit top flashing joiners

- Fit Internal flashing joiner with double bead of silicone



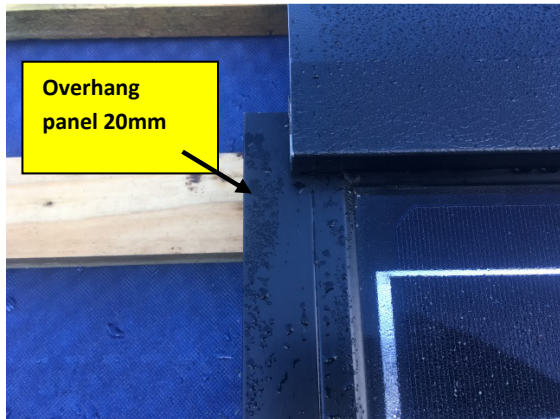
11) DC Cabling

- Top flashings complete, lay DC sting cables in order. Panels are fitted left to right



12) Remove EPDM seal

- **Very Important!** For top row of panels remove EPDM seal before fitting panel.



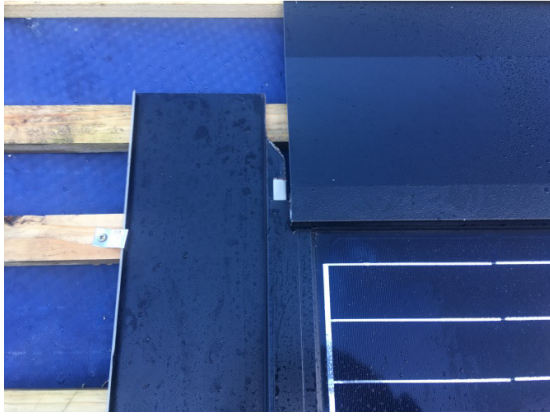
13) Over hang panel by 20mm

- **Very, Very Important!!** When fitting first panel. Over hang top LHS panel edge by 20mm or more over the LHS edge of the top mounting profile and top flashing. This allows the side flashing to slide past the top mounting profile.



14) Cut battens flush with panels

- **Important.** Cut additional battens flush with edge of panels on LHS & RHS to allow flashings to fit in place.



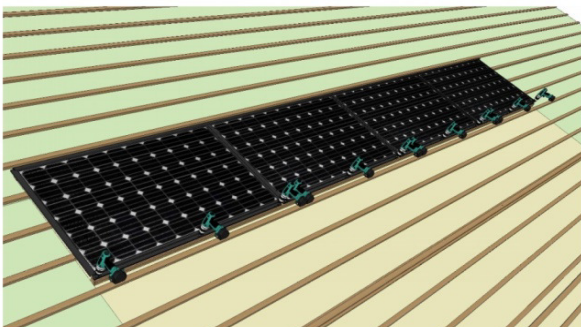
15) Fit LHS side flashing

- Fit LHS flashing
- Fit LHS flashings until bottom edge is parallel with bottom edge of panel
- Secure with flashing clips



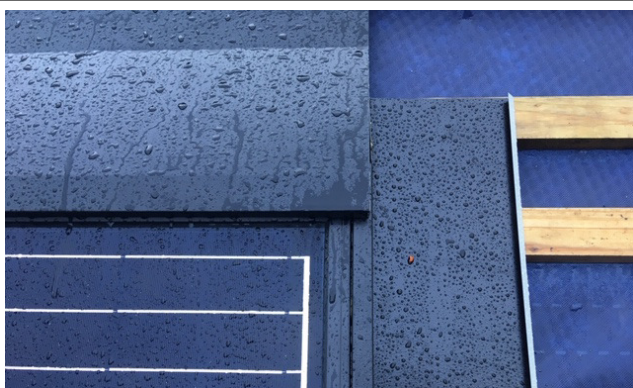
16) Fit top LHS flashing

- LHS flashing pushed into position
- Top corner flashing pushed into position under top flashing and secured with clips or screws



17) Fit top row of panels

- Secure panels with 9 screws per Panels
- Remember to connect panels DC cables



18) Fit RHS Flashing

- Slide RHS flashing into position from bottom of panel.
- If panel is too close to scaffold or end of roof to slide flashing on in position. Slide flashing on to panel before fitting.



19) Fit top RHS corner flashing

Fit RHS corner flashing under top middle flashing. Push in tight into position and silicone joint



20) Secure LHS and RHS flashings

- Secure Left hand side and RHS flashings with clips & 20mm screws



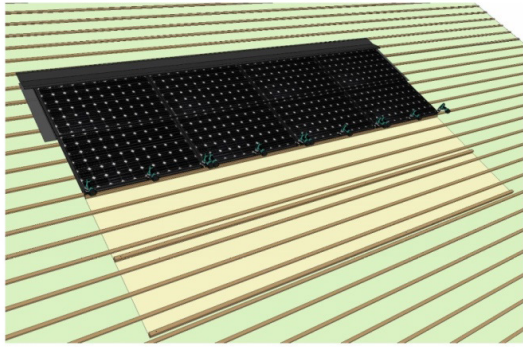
21) Fit EPDM gasket LHS

- For all panles except top row of panels
Fit EPDM Gasket if not already fitted from far left end of panel.



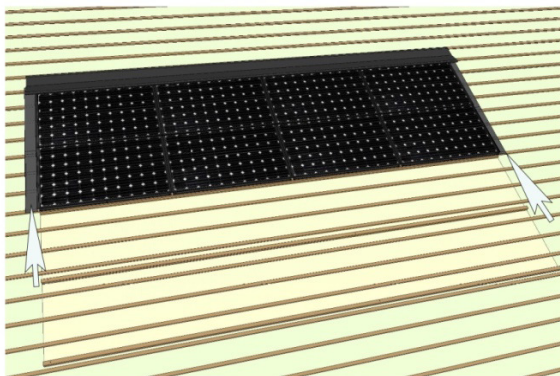
22) Fit EPDM gasket to RHS of panel

- Fit EPDM Gasket if not already fitted from far left end to far RHS trim to fit.



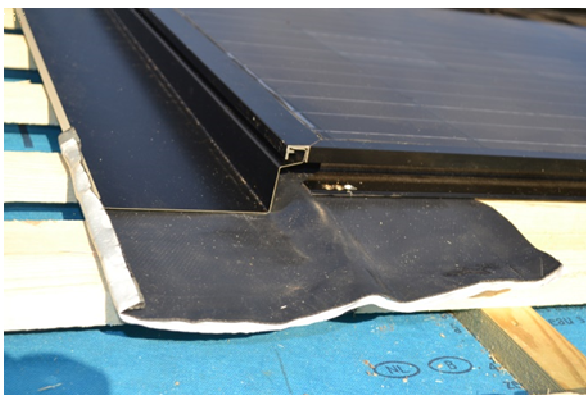
22) Fit 2nd row of panels

- Fit second row of panels, pushing the panel tight into position so parallel with panel above.
- Securing with 9 screws per panel.



23) Fit 2nd row of side flashings

- Fit 2nd row of panels flashings



24) Fit bottom corner flashing

- Fit bottom corner flashing before fitting side flashing
- Turn up edge of flashing to prevent water ingress.
- Lead or lead substitute can be used
- Height below array 150mm approx. so hidden when bottom flashing fitted



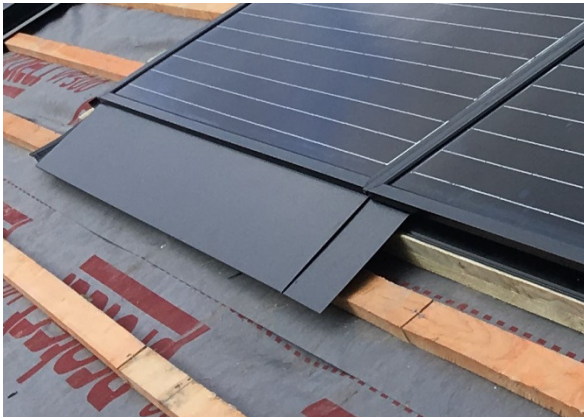
25) Stretch bottom flashing

- Stretch bottom insert slightly to create a very tight fit



26) Fit Bottom flashing clips

- Fit 2 clips per panel secure with 50 gauge screw.



27) Fit bottom flashing & internal flashing joiners

- Part push in bottom flashings and slide in bottom flashing joiner



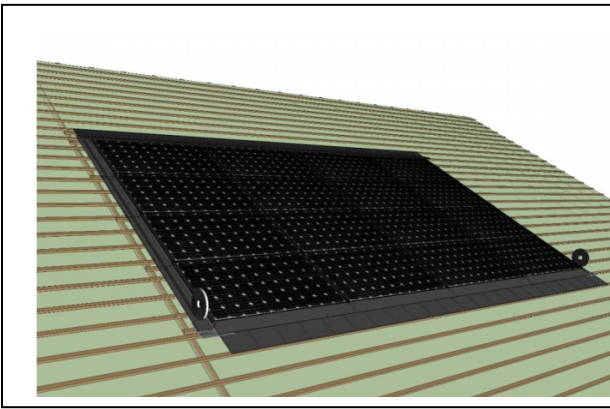
28) Fit bottom RHS flashing

- Fit bottom flashings and push into position
- Bottom flashing will be removed by roofers to fix tiles below flashing and will be replaced, ensure roofers know to push bottom flashing in tight.



29) Pull flashing clip

- Pull flashing clips over bottom flashing edge to ensure tightness and security of bottom flashing.



30) Expandable foam tape

- Fit expandable foam tape around the array for tiles or leave for roofers to fit.



31) Bottom capping strips

- If using lead or lead substitute as bottom flashing. Fit flashing the full length of the array between bottom profile and double batten and additional corner flashing pieces.
- Stretch bottom capping strips to make tight fit and push into position.

Trouble Shooting Problems



Panels out of line

If panels move out of line with panels above, this can cause issues with slide flashing. There is about 8mm of tolerance.

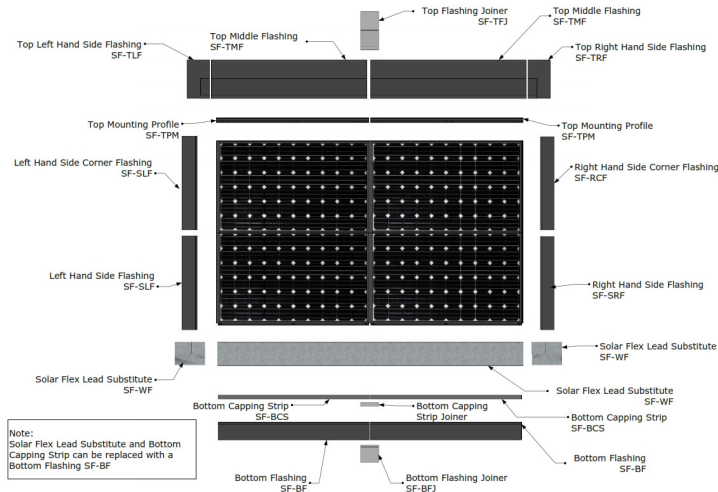
- To rectify remove lower panels and reset in line with row above.



Panels 'saw tothing'

- This can be caused by panels not being pushed completely in position or the top mounting bars not being straight.
- **To rectify;** removing panel and push into position ,
- Reduce saw tooth effect by pulling the puling RHS panel closer into position

SolFit Component parts



Top Left flashing



Top Middle Flashing



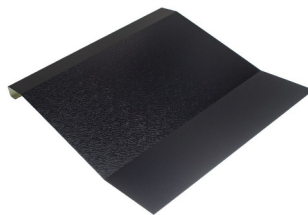
Top Right flashing



Top Mounting profile



Top Flashing Joiner



Left Hand side Flashing



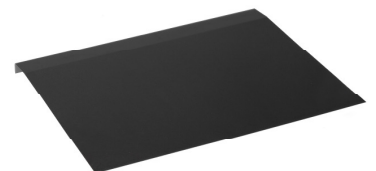
Right Hand Side Flashing



Bottom Flashing



Bottom Flashing Joiner



Internal RHS corner flashing for L shaped arrays



Internal LHS flashing for L Shaped arrays



Bottom capping strip (Alternative for bottom flashing)



Bottom Capping strip joiner



Lead substitute alternative bottom flashing and bottom corners.



Gauge 5 x 50mm Self-cutting screws for battens and panels



Expandible foam tape

