

# SolarFlash™ Instructions



A basic knowledge of the principles of slating is essential when performing any type of slate roof repair/refit.

**Slate Refit Kit**



**Slate New Build Kit**



**Flat Tile Kit**



## **Roof Anchor/Bracket**

**Page 3**

**There are currently three different SolarFlash Kits:**

## **Slate Refit Kit**

**Pages 4-8**

For use on existing Slate Roofs

## **Slate Newbuild Kit**

**Page 9**

For use on all new build Slate Roofs

## **Flat Tile Kit**

**Pages 10-11**

For use on Plain Tiles (e.g. Rosemary), Concrete Tiles (e.g. Marley Modern, Stonewold)

# Roof Anchor/Bracket (relevant on all installations)

## Points to note:

- Some roof anchors/brackets available on the market are fundamentally not conducive with any flashing.
- Any contact between the roof anchor/bracket with the roofing material makes the roofing material load bearing.

## Therefore:

- The elbow of the bracket must give at least 30mm clearance from the rafter to bend down the roof i.e. the elbow should be no less than 30mm deep and then can be made to work with shims (packing). Brackets with clearance of 40/45mm from the rafter probably won't need shims.
- Shims (packings) are used to lift the roof anchor/bracket away from the slate underneath the bracket.

**NB:** Any contact between the flashing and the roof anchor/bracket could cause a problem. The roof anchor/bracket is a moveable projection from the roof and must be allowed to move. The SolarFlash is designed to elevate above the roof anchor/bracket.



30mm Clearance

# Roof Anchor Positions

- Once the roof is opened and the rafter located, the position of the roof anchor/bracket is now determined.
- The positions of A, B and C (see below) are the only places that the rafter can land in relation to the slate.



- A. Rafter lands where two slates join on the rafter.
- B. Rafter lands in the middle of a slate.
- C. Rafter lands somewhere between the middle and the edge of a slate.

- Consequently, there are only three possible variations of cuts to the slates. See Page 5.



# Cutting Slates for Positions A, B and C

When installing on an existing roof, the bottom slates do not need to be removed, and can be cut in situ with an angle grinder.

Please see the demo video on the website.



Note re. above: One cut below roof anchor/bracket means two cuts above the flashing (A) and vice versa (B).

Note: Position C could fall either side of centre and only needs two cuts; one under and one over the roof anchor/bracket.

# Installing SolarFlash (Refit)



Step 1: Fix foam to bracket drop.



Step 2: As a guide, slate sizes are marked on the SolarFlash.



Step 3: SolarFlash can be trimmed or nailed through. If nailing through, ensure relevant line for slate size centres on the batten. Apply pressure to hold SolarFlash solid when nailing through.



Step 4: Cut slates around the hood of the SolarFlash as per Page 4.

The top of the cut SolarFlash should sit in the centre of the batten.

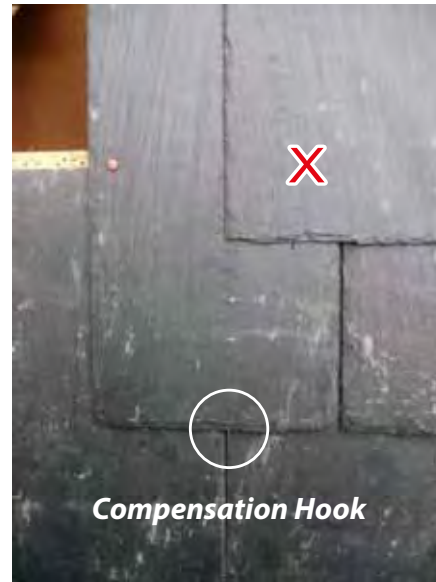
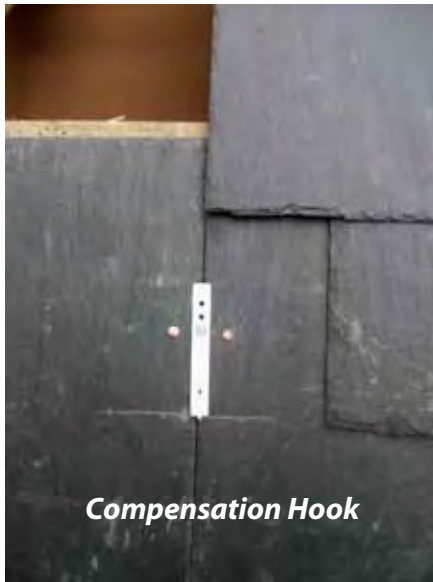
**NB: COLD WEATHER**

As with most plastics, the SolarFlash can become brittle in very cold weather. In these conditions it is recommended to drill a pilot hole before nailing through.

# Using the Compensation (comp) Hook

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SLATE  
REFIT #4



The comp hook is used where it is not possible to access both nail holes and prevents the head of the slate tilting off the batten.

**X** Unable to access nail hole under this slate.

- Step 1: Mark position of the bottom of the object slate and fix the comp hook to this line.
- Step 2: Slide the slate into position on the comp hook and nail the accessible hole. Slate cannot tilt.

# Replacing final slates using the 'Hallhook'



**Hallhooks**

**HALL**  
**CLIP**  
**HALLHOOK**  
A HALLCLIP PRODUCT: PATENT PENDING



- Step 2: Slide object slate into position then using the hookpull, pull firmly until the Hallhook locates the base of the object slate. Remove hookpull.

- Step 1: Position the Hallhook between the slates. Use the nail hole that positions the bottom hook at least 10mm up from the finished slate line. The Hallhook will stretch up to 40mm. Hang the hookpull on the Hallhook as per illustration.





# Installing SolarFlash (New Build)

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SLATE  
NEWBUILD #1

Like in the Slate Refit Installation, the bracket can land in three different positions (as per page 4). So consequently, there are only three possible variations to the cuts of the slates (as per page 5).

Step 1: Attach brackets to rafters as required.

Step 2: Slate as normal, make cut(s) to slate(s) around bracket.

Step 3: Foam around drop of bracket, SolarFlash on bracket.

Step 4: Slate as normal, make cuts to slate(s) around SolarFlash hood.



**Finish**

# Installing SolarFlash (Flat Tile)

Use the small SolarFlash on plain tiles (Rosemarys) as below.

Once the roof is opened and the rafter located, the position of the roof anchor/bracket is now determined. The positions of A, B and C (see below) are the only places the rafter can land in relation to the tile.



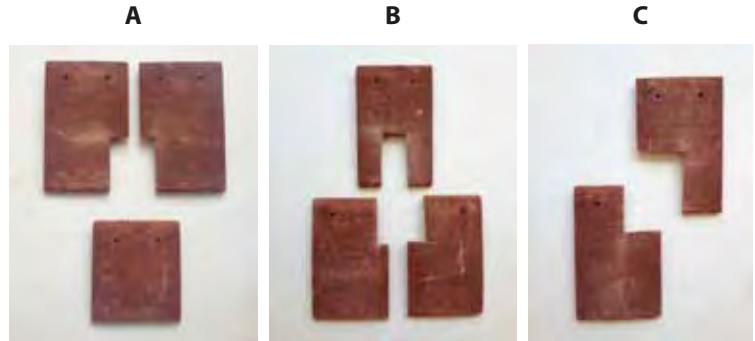
Consequently, there are three possible variations of cuts to the tiles.

**A:** Rafter lands where two tiles join on the rafter.

The lower tile should hang on the batten using the lugs or nails through the holes. The bottom of the tile is then cut so it is level with the side tiles (pictured on P11).

**B:** Rafter lands in the middle of a tile.

**C:** Rafter lands somewhere between the middle and the edge of a tile.



Install pictures on following page...

# Installing SolarFlash (Flat Tile)

11

FLAT  
TILE #2

Continues from  
page 10



Step 1: Fix foam to the bracket drop.



Step 2: Put SolarFlash (small) on the bracket.



Step 3: Cut tiles around the hood of the SolarFlash as per page 10.



Finished Result

Also use the small SolarFlash on large flat tiles e.g. Marley modern, stonewold, cambrian, edgemere.

On these tiles you do not need to cut the tiles under/below the bracket.





  
**SolarFlash™**  
 Now we can all do it right!

Also works with  
all flat profile  
interlocking tiles.



Cambrian Tile



Plain Tile



Hardrow  
Concrete Slate

Please see our website for  
**Frequently Asked Questions**  
**and demonstration videos**



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