

# **FILON** Fixsafe

## Installation guide

The Fixsafe system facilitates installation of fragile roofing sheets and rooflights from below, eliminating the need to access the roof.

This guide provides basic installation steps which may need to be adapted depending on site conditions and the profile of the sheet to be replaced. Although work will be undertaken from the underside of the roof, it is important that HSG 33 guidelines 'Working with Roofing & Cladding in Windy Conditions' are followed.



### **1** Carefully position working platform under the sheet to be replaced.

NOTE: All access equipment and working procedures should comply with current Health and Safety At Work guidelines appertaining to each project.



### **2** Remove all existing fixings using suitable tools.

NOTE: On steep pitched roofs, the cut top section of the fixings may roll off the roof and care should be taken to cordon off potentially affected areas. If a rooflight is being replaced, it is possible to cut out the centre of the rooflight sheet so as to retrieve the fixing.



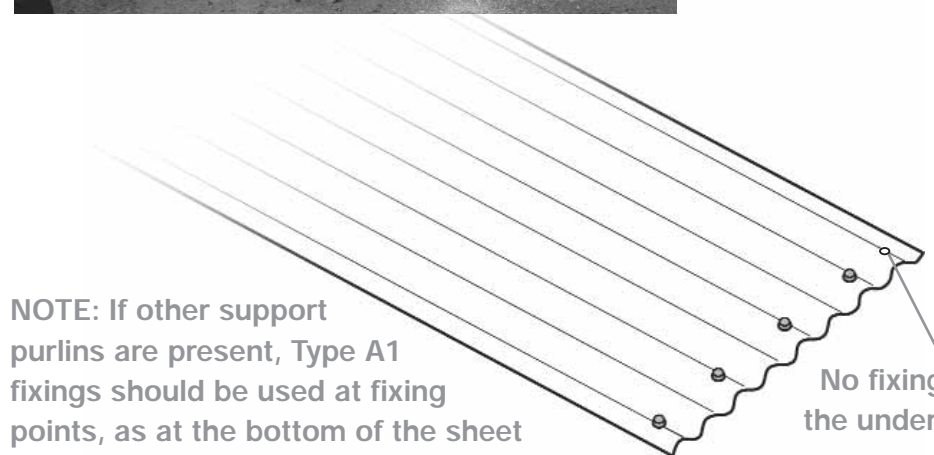
### **3** Remove the now unfixed sheet by carefully sliding it down the slope until clear, then retract the sheet carefully into the building.



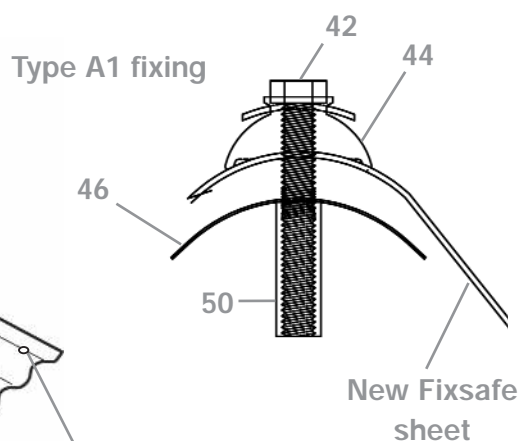
**4** Using the removed sheet as a template, drill the new sheet – to provide accurately placed fixing holes as per the removed sheet.



**5** A1 type fixings are attached at the downslope end of the new roof sheet, excluding the fixing point on the underlap crown (see diagram). The shaped washer (46) lies on the underside of the sheet and is held in place by the threaded sleeve (50) (hand tighten only).



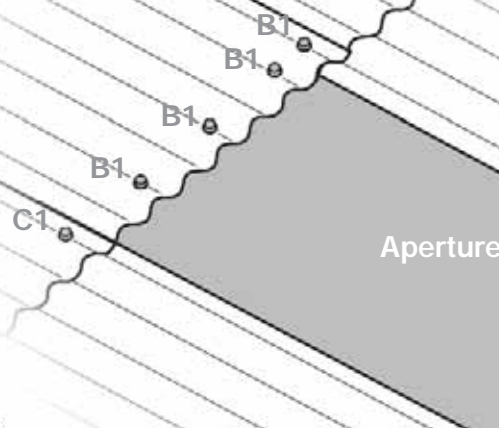
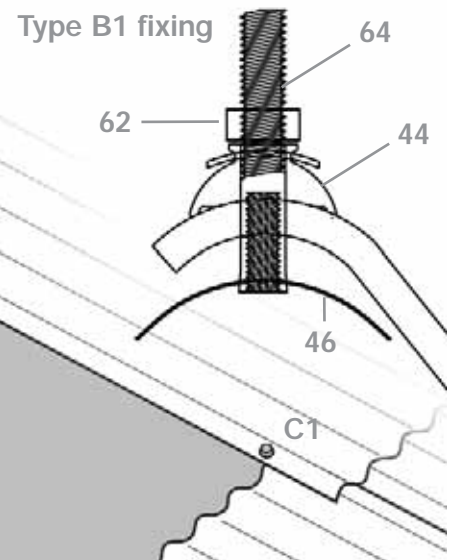
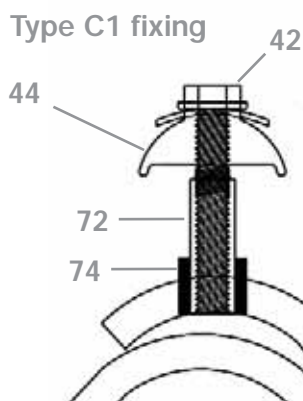
**NOTE:** If other support purlins are present, Type A1 fixings should be used at fixing points, as at the bottom of the sheet





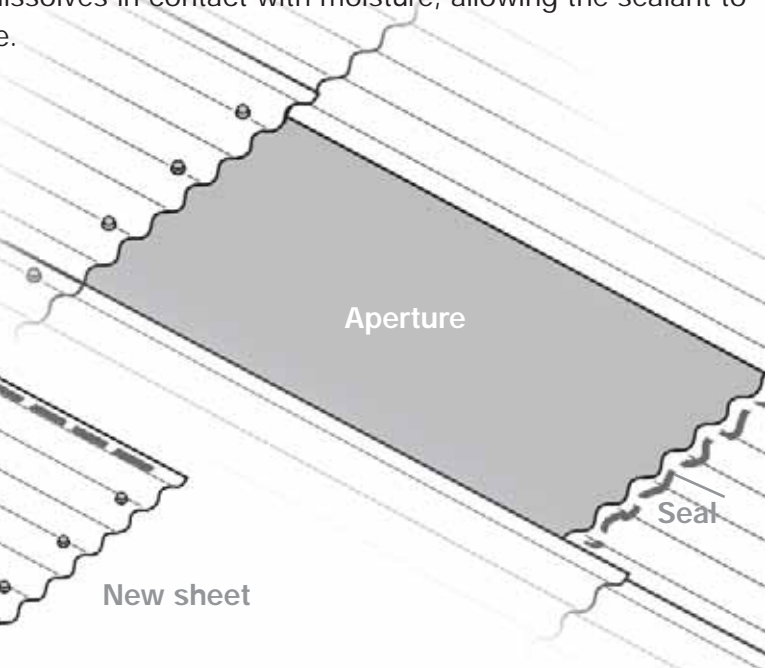
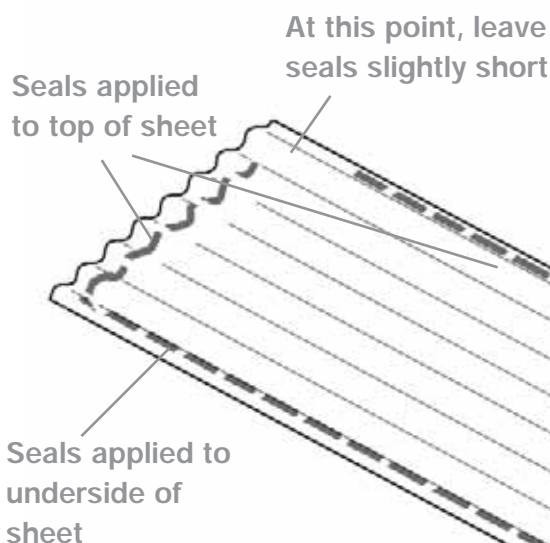
**6** In the open roof aperture, fit type B1 fixings (hand tighten only) to the existing upslope roof panel crowns, excluding the fixing at the underlap position\*. At the underlap position\*, use type C1 fixings. The C1 fixing has a foam collar (74) placed over the bottom of the threaded sleeve (72). The sealing washer (44) and top bolt (42) are located over and into the threaded sleeve (72). This complete unit is then placed into the existing top sheet hole. The foam collar (74) secures the unit.

\* The underlap position (C1) can vary, dependent on whether the roof was laid right to left or vice versa.



**7** Apply appropriate sealant to the replacement sheet and to the perimeter of the roof aperture, as shown in the diagram.

NOTE: Overlaying the sealants with the clear tape provided, will stop the sealant adhering while the sheet is being fixed. This tape dissolves in contact with moisture, allowing the sealant to adhere.



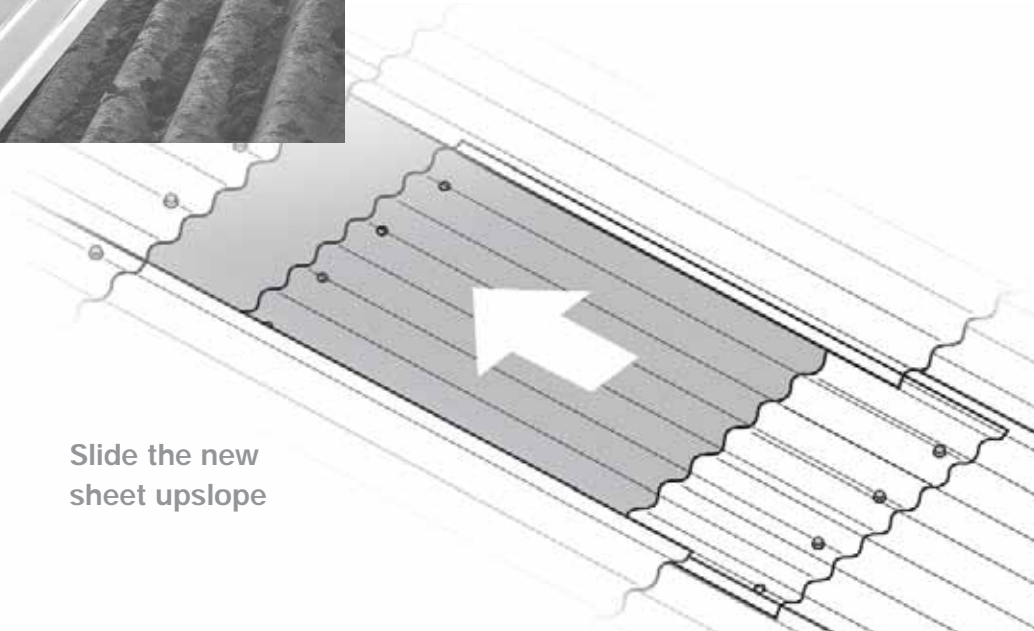




**8** Prior to putting the new sheet in position, clean out the existing aperture of loose debris, ensuring appropriate respiratory equipment is used.



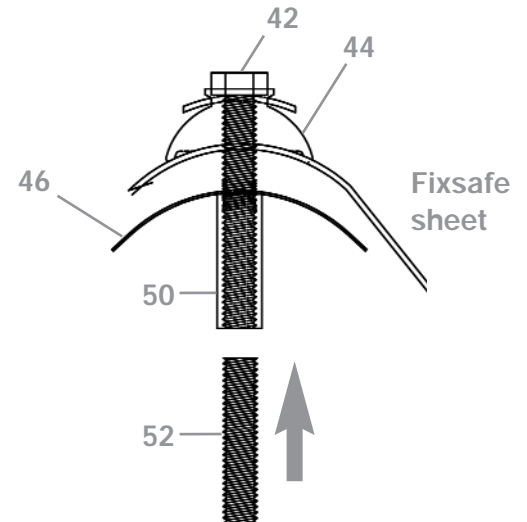
**9** Lifting the new sheet through the aperture, slide the new sheet upslope into position until the lower fixings on the sheet locate with and protrude through the relevant holes. This will then automatically align all other holes in the sheet.



Slide the new sheet upslope



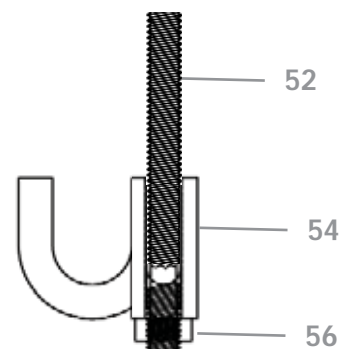
**10** Select the type D1 fixings, take the fully threaded sections (52) and cut to the required length of the replaced fixings, ensuring that the cut threads are clean and can easily be screwed into the fixings. Screw these into the threaded sleeves (50) (64) and (72) of the fixing sections protruding through the fixing holes, taking care not to push the sleeves out of the hole in the roofing panel.



**11** The hooked sleeves (54) are then pushed on to the threaded bars (52) and hooked over the purlin.

The retaining nut (56) is then screwed on to the protruding thread (52) and tightened to secure the assembly.

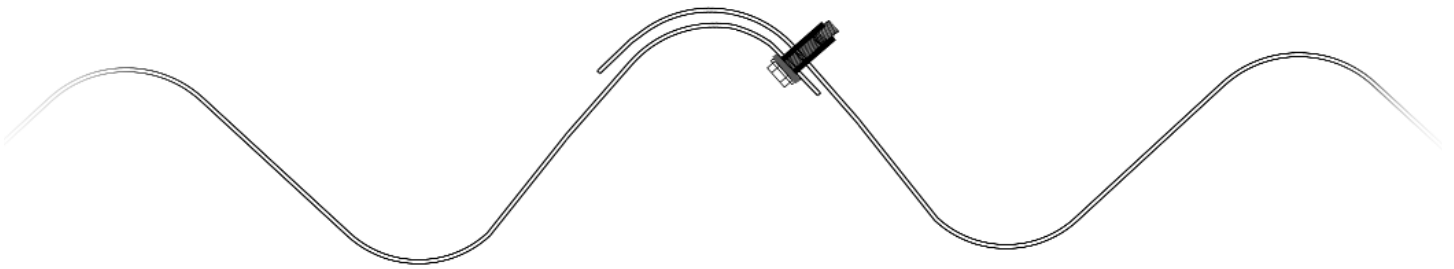
Type D1 fixing



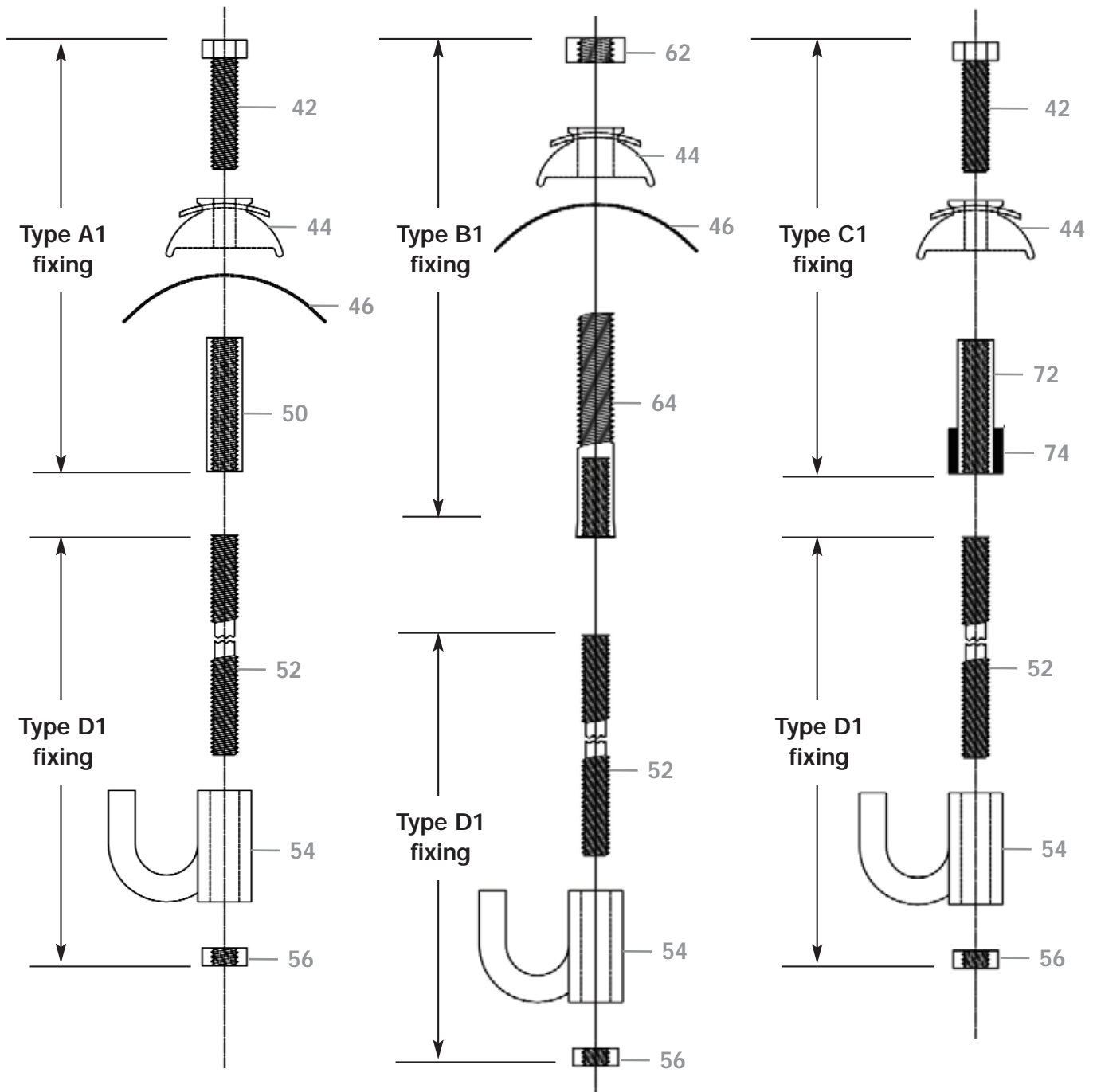


**12** If required, conventional fasteners such as lap locks can be used to secure the sides of the sheet. These are to be fitted from below.

NOTE: If no side lap fixings were used on the original sheets but are now required, the existing roof sheets will need to be drilled. If these sheets contain asbestos, drilling must be controlled within the current Working With Asbestos Regulations.



## Exploded views of fixings



- |                      |                    |                      |
|----------------------|--------------------|----------------------|
| 42. Top bolt         | 52. Threaded bar   | 64. Threaded element |
| 44. Sealing washer   | 54. Hooked sleeves | 72. Threaded sleeve  |
| 46. Shaped washer    | 56. Retaining nut  | 74. Foam collar      |
| 50. Threaded sleeves | 62. Top nut        |                      |

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The Fixsafe system has been developed in partnership with Letchworth Roofing.

For further information, please call our technical department  
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