

# Technical Information Sheet

## Rooflight Application Guide



TIS113 December 2020

First Issue

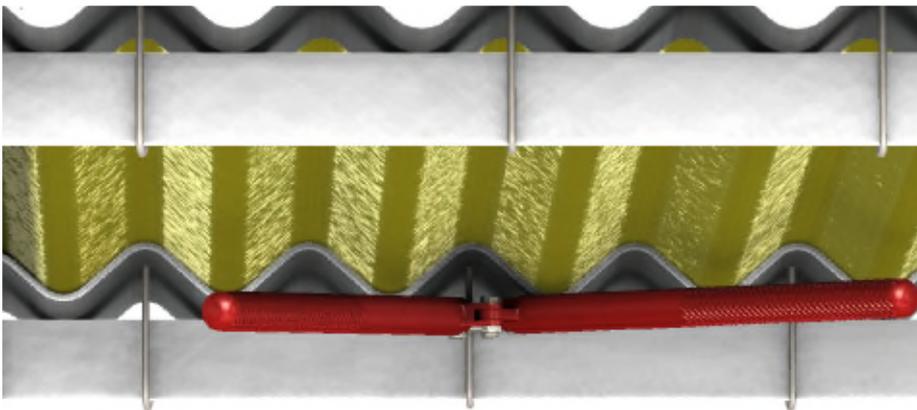
### Fixsafe installation guide for single skin rooflight replacement to suit asbestos cement or fibre cement profiled roofs

The Filon Fixsafe system was developed to allow the safe removal and replacement of profiled rooflights and sheets from below the roof. Access to the top of the roof is not necessary, removing the need for scaffolding, edge protection and other safety measures that are normally essential. This document provides guidance for replacing a single skin rooflight in an asbestos cement or fibre cement profiled roof. A numbered component list is at the back of this document for reference.

Work may be carried out from a MEWP or mobile scaffold tower for example but HSE guidelines for using such equipment must be followed.

#### Installation sequence

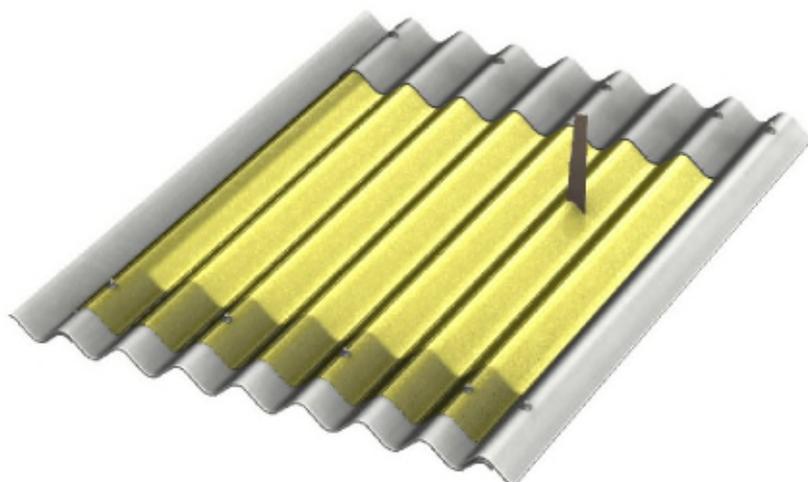
##### Existing rooflight removal



Where hook bolts, J bolts or similar have been used to secure the existing rooflight, cut through the bolts with bolt croppers to release it. If side lap stitch fasteners have been used see the alternative method below.



Where screw fasteners and or side lap stitch fasteners have been used, cut a hole through the rooflight with a reciprocating saw to allow access to the top of it. Remove main fasteners and side lap stitch fasteners from the top through the hole that has been created.



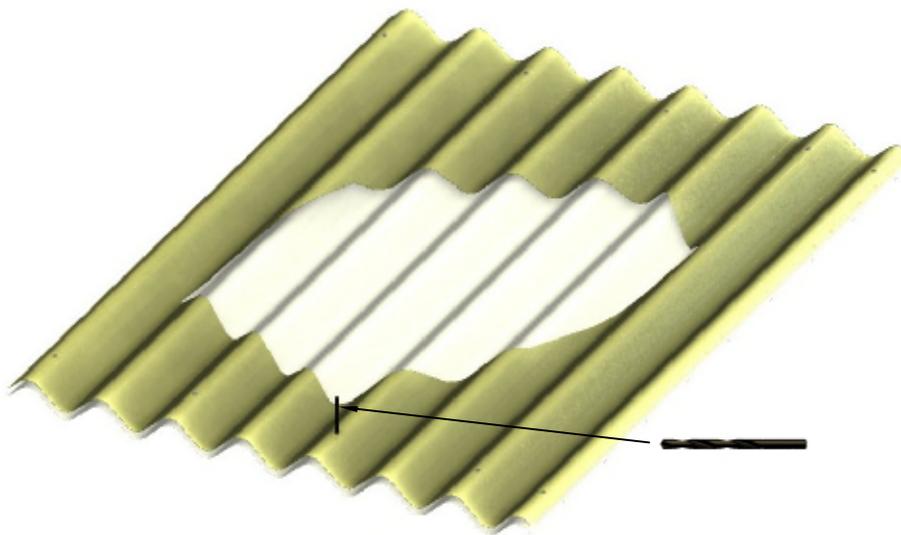
TIS113 December 2020

**Installation sequence**

Existing rooflight removal



Carefully remove the rooflight and take it down to floor level.



Lay the old rooflight over the new replacement that has the same profile, width and a length that is no less than the original. Ensure that the underlapping and overlapping sides are correctly located on the new replacement rooflight. Using the old rooflight as a template, drill holes using a 10mm bit through the original hole locations only, including any stitch fastener locations.

TIS113 December 2020

**Installation sequence**

**New rooflight preparation**

**Above rooflight**

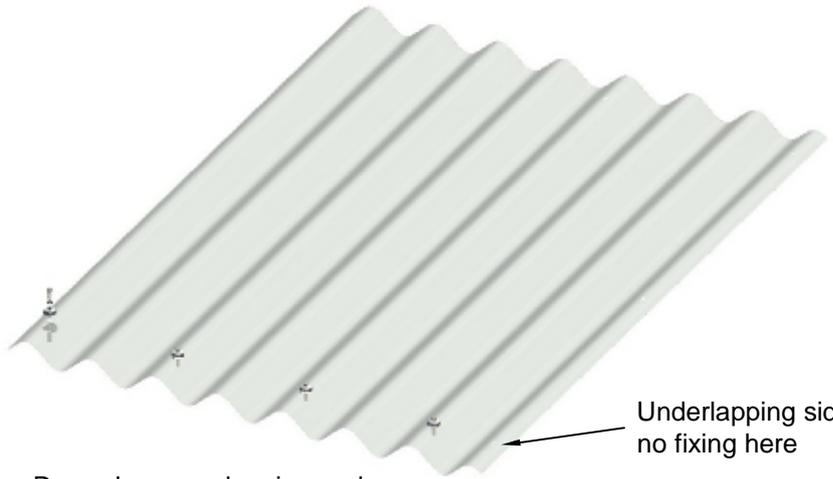
- 1. M6 bolt
- 2. M6 washer
- 3. Sealing washer



**Below rooflight**

- 4. Curved washer with 6mm diameter hole
- 5. Threaded sleeve

**Type A fastener assembly**



The Type A fastener assembly is required at the downslope over lap and any intermediate purlin locations, except for the side lap underlapping corrugation.

Assemble components 1, 2 and 3 and push them through the pre-drilled holes from the top.

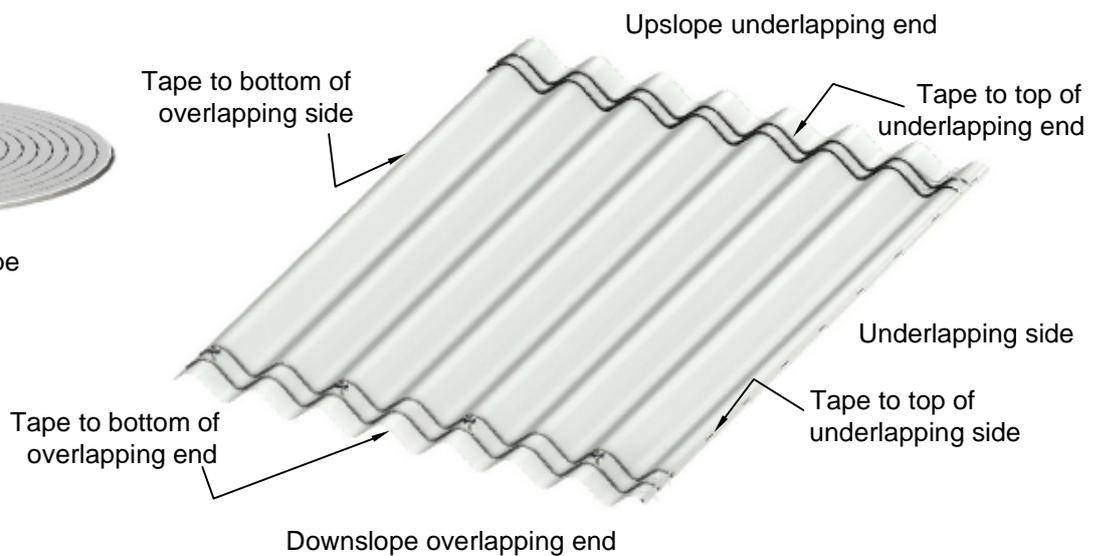
Push the curved washer onto the bolt from the bottom and screw the threaded sleeve onto the bolt to clamp all components together on both sides of the rooflight.



10. Butyl mastic tape



11. Anti-stick tape



Apply butyl mastic tape to the ends and sides as shown. For the end laps apply two continuous runs either side of the main fixing lines taking care not to stretch or 'bridge' the tape across the profile corrugations. For side laps apply a continuous single run taking care to locate it on the weather side of any side lap stitch fasteners.

Apply a continuous run of anti-stick tape on every run of butyl mastic tape that has been applied.

TIS113 December 2020

Installation sequence

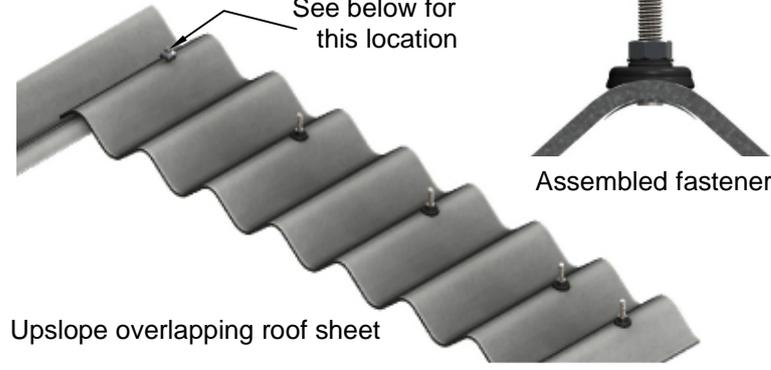
Roof sheet preparation

Above roof sheet

-  12. M8 nut
-  13. M8 washer
-  14. Dowty Spat washer



See below for this location



Below roof sheet

-  15. Curved washer with 8mm diameter hole
-  16. Threaded element

Type B fastener assembly

The Type B fastener assembly is required at the top upslope end where the roof sheet over laps the rooflight, except for the corner where the rooflight is underlapped at the end but overlaps at the side. A Type C fastener is needed here, see below.

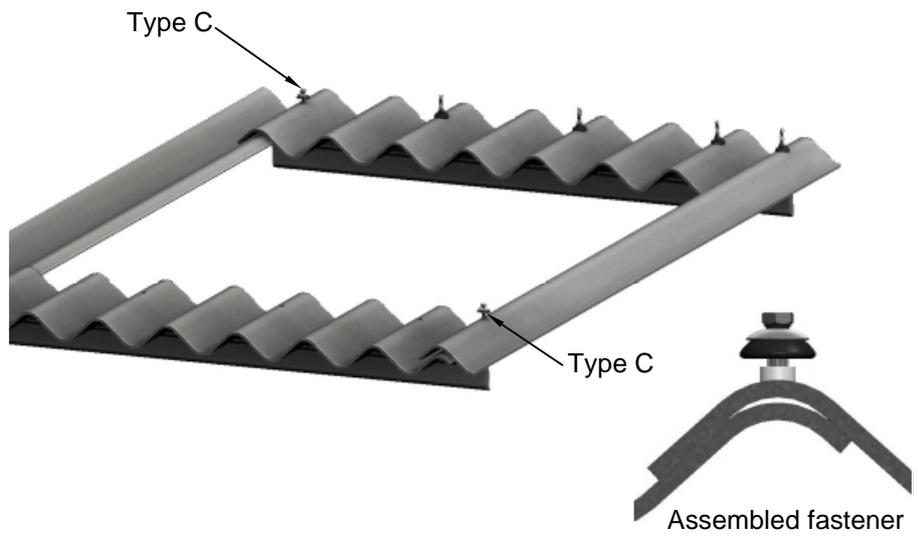
Push the threaded element through the curved washer and then push them through the main fastener holes from the bottom.

Push the Dowty Spat washer and the M8 washer over the threaded element from the top. Hand tighten the M8 nut onto the threaded element.

-  1. M6 bolt
-  2. M6 washer
-  3. Sealing washer
-  5. Threaded sleeve
-  17. Foam collar



Type C fastener assembly



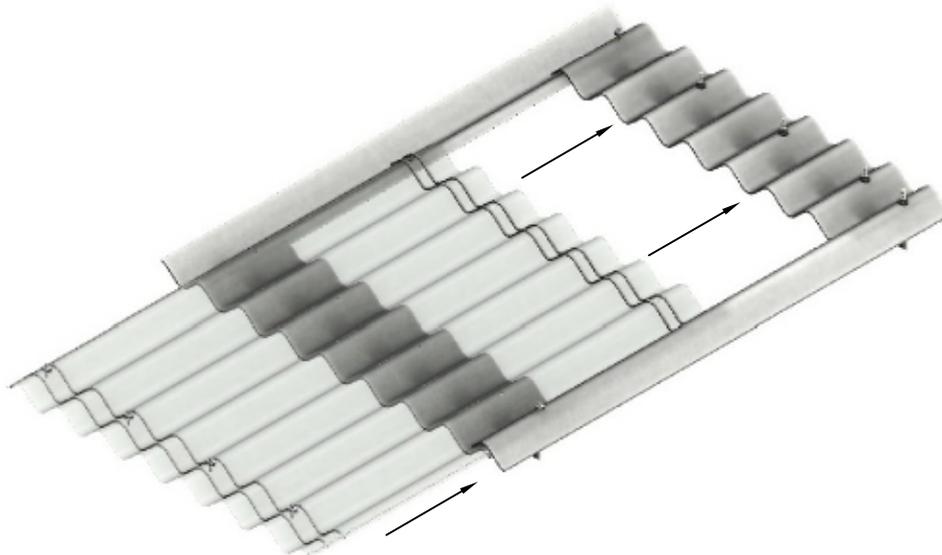
The Type C fastener assembly is required where a main fastener is located through a side lap as shown above and also including an intermediate purlin position where the rooflight underlaps at the side. The example shown is a left to right lay as viewed from the eaves.

Assemble the items listed and push the fastener through the holes from the top taking care not to penetrate beyond the top roof sheet. Note that the foam collar helps to prevent this from happening and that the fastener will be elevated at this stage.

TIS113 December 2020

Installation sequence

Rooflight installation



Once all fasteners and sealants are in place carefully take the new rooflight through the aperture and position it at the bottom of the downslope roof sheet such that it can be slid into place under the overlapping side of the adjacent roof sheet.

Continue to slide the rooflight upslope until the fixing locations are all aligned.



Screw a threaded bar into all fasteners from below, taking care not to push upwards with excessive force.

TIS113 December 2020

Installation sequence

Rooflight installation



Where Type C fasteners have been used pull the threaded bar downwards to correctly locate the sealing washer onto the roof sheet.



18. Grommet fastener



Where side lap fasteners were located insert grommet fasteners from below and hand tighten with a spanner.



7. Hooked sleeve



2. M6 washer



8. Split washer



2. M6 nut



Slide a hooked sleeve, M6 washer and split washer onto the threaded bars. Follow these with an M6 nut and hand tighten with a spanner ensuring that the hooked sleeve is correctly engaged onto the purlin.

# TIS113 December 2020

## Components

### Filon Fixsafe sheets

Filon Fixsafe sheets are available in a large range of profiles to suit the asbestos cement and fibre cement profiles that have been in use for many years. The standard specification for single skin rooflights is as follows: -

Sheet type: CEDR24E.

Colour: Natural translucent.

Fire performance: Filon Grade 104, B<sub>ROOF</sub> (t4) to BS EN 13501 Part 5. SAA to BS 476 Part 3. Class 1 to BS 476 Part 7.

Finish: Filon Protect clear UV absorbing coating to the weather face.

Item	Description	Part No.
	M6 bolt	1
	M6 washer	2
	Sealing washer	3
	Shaped washer 6mm hole	4
	Threaded sleeve	5
	Threaded bar	6
	Hooked sleeve	7
	Split washer	8
	M6 nut	9

Item	Description	Part No.
	Butyl mastic	10
	Anti-stick tape	11
	M8 nut	12
	M8 washer	13
	Dowty Spat washer	14
	Shaped washer 8mm hole	15
	Threaded element	16
	Foam collar	17
	Grommet fastener	18

TIS113 December 2020



**Siteworks**

**Storage**

Sheets are generally supplied loose. Store on clean, level battens at centres not exceeding 1.5m. Stacks should not exceed 1m and must not overhang excessively at ends. Secure and protect from wind and mechanical damage. When stored in open, protect with opaque waterproof covers.

**Cutting and drilling**

Cut sheets with a hacksaw with 6/8 teeth per centimetre. Best results are obtained if the saw is held at a shallow oblique angle. When cutting with power tools use 40/60 grit diamond blade operating at medium speed.

Please refer to the Filon document TIS010 that is available to download from our website for COSHH information.

**Notes**



Filon Products Limited  
Unit 3, Ring Road, Zone 2, Burntwood Business Park  
Burntwood, Staffordshire WS7 3JQ, England

Tel: +44 (0)1543 687300 Fax: +44 (0)1543 687303  
Email: sales@filon.co.uk Website: www.filon.co.uk

**FILON is a trademark of Filon Products Ltd.**

Information and recommendations contained in this publication are given in good faith without warranty or guarantee. Because we are constantly seeking to improve our products we reserve the right to change specifications at any time. No liability can be accepted for any claims, losses or demands arising from the contents of this publication. This statement does not affect any statutory rights which cannot be excluded by agreement

