# **Technical Information Sheet** Rooflight Dimensions Guide



### TIS209 November 2020

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# Replacement Factory Assembled Insulating Rooflight (FAIR) for use in an old asbestos cement or fibre cement roof system. Dimensions and types guide

This document should be used in conjunction with Technical Information Sheet TIS109 which provides our rooflight recommendations for use with asbestos cement or fibre cement roof systems.

### Factory assembled rooflight types

Factory assembled rooflights as installed in asbestos cement and fibre cement roofs were in fairly common use during the seventies and the eighties. The most common materials used were translucent GRP or clear PVC.

The rooflights were manufactured to match the external main roof sheet profile and, often, to suit profiled liner panel systems or board liner systems. The box liner of the rooflights may have been supported on the roof purlins or, more often, they were suspended between the purlins.



# F TIS209 November 2020 **Typical rooflight patterns** Pairs: Two FAIRs are laid side by side Continuous run: FAIRs are laid in banks of three or more side by side Chequerboard: FAIRs are laid as single width units Ridge to eaves: FAIRs are laid from the eaves up to the ridge to form strips down the roof slope



Midslope: FAIRs are laid up from the eaves and down from the ridge to form strips with main roof sheeting on all four sides

The examples shown above are some of the different possible rooflight patterns. The design of the FAIR may be affected by the rooflight pattern in addition to the roof system that it is used with.

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Typical FAIR types
Filon replacement FAIRs may be manufactured to match the existing FAIRs to ensure correct fit into an existing aperture. In addition to details such as the outer sheet profile, box liner width, depth and length, the position of the box liner in relation to the outer sheet across the width is also important.
Also shown are other FAIR types for various applications along with suspended box types and supported box types that have internal fillers at fixing points.
Bespoke: Replacement FAIR box liner width and depth made to match the existing rooflight
Type A: Starter unit and intermediate unit Type A Type B: End unit for continuous run applications for continuous run applications
Type A: First unit for paired FAIRs Type B: Second unit for paired FAIRs
Type B: Unit for single width applications
Single span suspended box
Double span suspended box
Single span supported box
Double span supported box
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### Sheet types

The FAIR outer sheet type selected will depend on the expected durability requirements. It should be noted that replacement FAIRs installed into an old fragile asbestos cement or fibre cement roof will be classed as fragile due to the fragility of the surrounding roof regardless of how strong the FAIR outer sheet is. The options available are shown in the table below.

<b>Standard</b>	<b>Higher</b>	<b>Superior</b>	<b>Optimum</b>
Durability statement	25 year durability	25 year durability	30 year durability
available	guarantee available	guarantee available	guarantee available
CE24E	CE30E or CEDR24E	CE36E or CEDR30E	Supasafe E

### Fire performance

Filon Grade 104:  $B_{ROOF}$  (t4) to BS EN 13501 Part 5. SAA to BS 476 Part 3. Class 1 to BS 476 Part 7. Standard for a liner.

Filon Grade 300:  $B_{ROOF}$  (t4) to BS EN 13501 Part 5. SAB to BS 476 Part 3. Class 1 to BS 476 part 7. Standard for the external sheet of a factory assembled rooflight.

Filon Grade 101: B<sub>ROOF</sub> (t4) to BS EN 13501 Part 5. SAA to BS 476 Part 3. Class 1 to BS 476 Part 7. Class 0 as defined in Building Regulations, to BS 476 Part 6. Available when a higher fire performance than is normally required in Building Regulations is specified.

For further information, please refer to Filon Technical Information Sheet TIS003.



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

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Composites







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