

# supasafe FILON Fe & DR

Reinforced GRP profiled rooflights

• Range of profiles

Supasafe sheets meet  
**HSE  
PREFERRED  
OPTION**  
for long-term  
non-fragility

• Double and triple reinforced grades for increased strength

- Increased strength with excellent light transmission, similar to standard GRP rooflights
- UV resistant
- Available in a wide range of commonly used roofing profiles
- Unique construction provides high strength without significant increase in thickness – allowing accurate profile match to steel or aluminium sheet
- Fire rated grades available
- Tints and colours available to special order

**FILON**<sup>®</sup>



# supasafe <sup>FILON</sup>e & DR

## Reinforced rooflights from the leader in GRP systems

**FILON Supasafe and DR rooflights are manufactured from polyester resins and glassfibre. They incorporate additional reinforced woven glass layers compared with conventional GRP rooflights, to provide increased strength and impact resistance.**

### ***FILON DR (Double Reinforced) rooflights***

FILON DR rooflights are manufactured with one additional reinforced woven glass layer compared with conventional GRP rooflights. They have been assessed in accordance with ACR(M)001-2011 'Test for Fragility of roofing assemblies. Under this classification, they are rated Class B when used in a single skin application or forming part of a multi-layer assembly such as FAIRs and site assembled insulating rooflights.

### ***FILON Supasafe (Triple Reinforced) rooflights***

FILON Supasafe rooflights are manufactured from polyester resins and glassfibre, with two additional reinforcement layers compared with conventional GRP rooflights. They have been assessed in accordance with ACR(M)001-2005 'Test for Fragility of Roofing Assemblies. Under this classification, they achieve a Class B Non-Fragility rating providing comparable impact resistance and load bearing capabilities to 0.7mm steel sheet.

### **Outstanding resistance to weathering**

FILON reinforced GRP rooflights are supplied with a highly durable protective film to the weather surface. This extends sheet life and reduces yellowing. Under normal atmospheric conditions, life expectancy should be in excess of 30 years. Independent accelerated weathering tests completed under ISO 4892 and EN 1013-1 1997, confirm that FILON

reinforced rooflights meet the highest durability classification under this standard.

### **Excellent light transmission**

When measured by direct contact photo-cell, FILON reinforced rooflights provide at least 85% light transmission, compared to 90% light transmission for standard weight GRP rooflights.

### **Accurate profile matching to metal sheets**

FILON Supasafe and DR rooflights are manufactured using a carefully developed process providing a much thinner sheet compared with alternative reinforced GRP sheets providing similar levels of impact resistance and load bearing capabilities. This much thinner sheet enables us to manufacture rooflights and roof sheets with a very accurate profile definition enabling much more successful sealing between side and end laps.

### **Fire rated grades available**

FILON reinforced rooflights are manufactured in three alternative fire retardant grades that provide compliance with the Building Regulations for Fire Safety.

### **Wide range of profiles and options**

FILON reinforced rooflights are available in a wide range of commonly used roofing profiles. Special colour tinted rooflights can be supplied to special order.

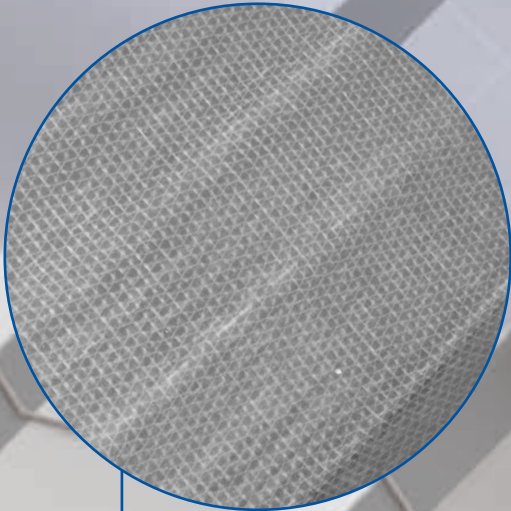
**Below left: FILON reinforced GRP rooflights form this canopy to provide cover for fire teams at Bath Fire Station**

**Below right: This large warehouse in Wales features FILON reinforced rooflights forming the outer skins of triple skin FAIRs factory assembled insulating rooflights**



Fix and seal Filon reinforced rooflights to the same specification as the matching profiled metal sheets. Designers and contractors must ensure the durability of the fasteners and sealants are suitable for the expected life of the roof.

Controlling the sheet thickness provides an improved profile match with thin adjacent trapezoidal profiled metal sheets, compared to thicker rooflights which do not sit down as tightly at end laps.



Close-up, illustrating FILON's stitched woven mat reinforcement



Typical FILON reinforced GRP rooflight applications



## Health & Safety

Work should be completed in accordance with the working practices detailed in the current HSE publication 'Safety in Roofwork HS(G)33'.

Prior to assembly, the rooflights must be considered fragile until fixed in position.

Although FILON Supasafe and DR rooflights are designed to provide high strength and resistance to impact, these rooflights should not be walked upon. The 'Health & Safety File' provided to the building owner should contain this recommendation. Additional information on HSE requirements is provided in the FILON publication 'Guide to the use of FILON GRP Rooflights to meet the HSE Construction (Design & Management) Regulations 2007 (CDM)'.

## Fire performance

FILON Supasafe & DR rooflights are available in three fire-resistant grades. They have been tested in accordance with BS476 Parts 3, 7 and where appropriate, Part 6, with the following ratings.

Grade	BS 476	Part 3	Part 6	Part 7
101*		AA	(I)<12' (i.)<6	Class 1
104		AA	(I)<20	Class 1
300		AB	-	Class 3

\*By definition under UK Building Regulations, FILON Grade 101 sheets are designated Class O.

## Supply

FILON rooflights are manufactured to order and can be obtained from a nationwide network of distributors and contractors.

## Siteworks

FILON rooflights are generally supplied loose. Store sheets on a flat, clean, level battens at 1.5m centres. Stacks should not exceed 1m in height and must not overhang at ends. Protect against theft and from being blown away. Always protect sheets stored in the open with opaque waterproof covers. Failure to do this can result in stacks acting as solar batteries and boiling any entrapped moisture which can discolour the sheets. This can happen even on relatively dull days.

## Maintenance

FILON rooflights require periodic cleaning to maintain light levels within the building. The frequency of cleaning will depend on local environmental conditions. The sheets should be washed with warm, soapy water using a stiff brush. Persistent stains can generally be removed using white spirit.

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