

## PRODUCT OVERVIEW

### GRP construction products





# PROFILED GRP ROOFLIGHTS & SHEETS

## the complete range for every application

Filon Products has led the development of GRP profiled sheets since the late 1950s - taking full advantage of the light weight and extreme durability of GRP to make it the obvious material choice of rooflight for many types of new build and refurbishment projects around the world.

### Standard range

Filon GRP rooflights are highly translucent, strong, durable and with excellent diffusion properties. External sheets include a UV absorbing surface protection layer. Filon GRP sheets are available in over 900 different profiles, to match all popular current metal profiled sheets as well as virtually any discontinued metal or asbestos cement profile. A range of

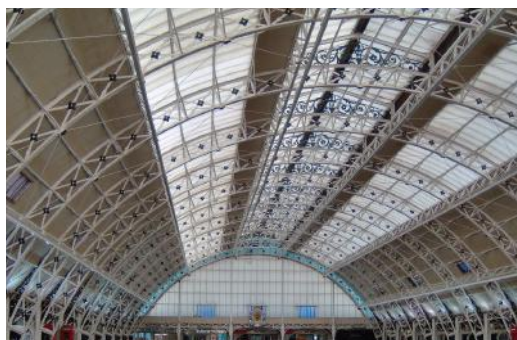
weights can provide a variety of safety levels. Filon rooflights are supplied as natural translucent GRP but coloured opaque and tinted sheets can also be manufactured.

### Reinforced range

Where increased strength and resistance to mechanical damage is required, Filon offers three grades of reinforced rooflights. Supasafe triple reinforced sheets provide impact resistance and load bearing capabilities comparable with 0.7mm profiled steel sheet. Filon DR double reinforced sheets, DR24 and DR30 grades also provide high strength and durability whilst still remaining lightweight and relatively thin, providing excellent profile definition.

### Factory assembled insulating rooflights

Filon GRP FAIRs are manufactured to suit all current common composite roof panel types and can also be manufactured to suit non-composite systems for replacement rooflights in older twin skin built up roof systems. Providing high levels of natural light, they are available as double skin or triple skin with various options of insulating core to suit to specific requirements. Weather sheet weights can also vary to provide different non-fragility and roof safety expectations.





### Multiwall polycarbonate intermediate core panel

4mm twinwall and 10mm four wall polycarbonate is available for use in a twin skin site assembled or factory assembled rooflight, to provide varying U values down to  $0.9\text{W/m}^2\text{K}$ .

### Fixsafe safety fixing system

Filon's unique Fixsafe system has been designed to allow profiled rooflights and GRP roof sheets to be replaced from below, eliminating the need to access dangerous fragile roofs, thereby increasing safety for maintenance operatives and reducing disruption to the client. As all the work is carried out from inside the building, costly edge protection scaffolding, roof staging and safety nets are not required. This provides a very economical way of safely replacing failing rooflights and roof sheets.

### GRP sheets for harsh environments

Filon Citadel sheets can be used for complete roof and wall cladding in aggressive and corrosive environments including chemical plants, galvanising plants, pickling factories and other harsh areas such as coastal and marine locations where profiled steel sheet may be unsuitable.

### GRP barrel vault rooflights

Filon Monarch-F factory assembled barrel vault rooflights are designed for use on standing seam and secret fix roofing systems, continuous ridge applications, low pitch and flat roofs. Manufactured in a range of widths, they are available as double and triple skin units with a variety of insulation levels to suit site specific U-value requirements.

### GRP refurbishment sheets

Filon DR-Refurb sheets are opaque GRP sheets for replacing or overlaying old or damaged profiled asbestos cement roofing sheets. They can be manufactured to match most current and obsolete steel roof sheet profiles.





# ROOFING PRODUCTS & specialist materials

## GRP Over-roofing

Filon over-roofing is a slimline and very lightweight system (from approx 2.4kg/m<sup>2</sup>). It is designed to simply and easily overlay existing asbestos cement roofs using Filon's patented Profix spacer. The major benefit of this system is its very low weight: when the new GRP system has been fitted and the asbestos roof has dried out, the roof may actually weigh less than it did when it was saturated. This removes the need to undergo costly structural calculations to ascertain the building's suitability for using the system. As the original roof sheets are left in place, the building occupier has far less disruption and asbestos disposal costs are avoided.

## Other profiled GRP sheet products

The Filon range includes specialist GRP products such as Fotolite GRP rooflights – an extremely high light transmitting profiled sheet for horticultural applications; Filite internal box rooflights for suspended ceilings and insulation grid systems; and Filonite DIY translucent sheets for domestic applications including car ports and canopies.

## V-Flow valley gutters

Filon V-Flow is a complete range of durable GRP valley troughs for use with natural or man-made slates and clay or concrete tiles. As a low cost alternative to traditional lead valleys, V-Flow valley gutters are quick and simple to install with no specialist skills. They have a proven life expectancy of over 30 years and with no scrap value there is no risk of theft. A wide range of profiles is available for mortar bonded and dry-fix applications. V-Flow valley gutters are light, easy to transport and handle – and virtually maintenance free. They are quality assured to ISO 9001 and BBA certified.

## DSP Diffused Sign Panels

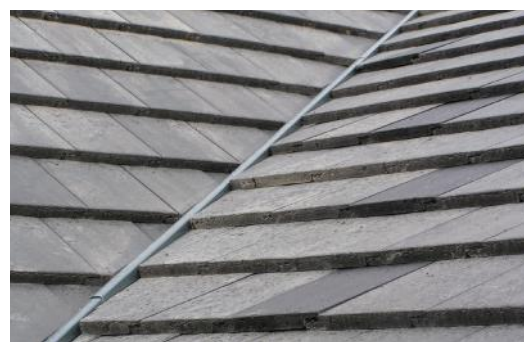
Filon DSP Diffused Sign Panels are flat opal tinted GRP sheets developed for use in back-lit illuminated signs. Filon DSP is also widely used in the construction of both travelling and permanent exhibitions, as well as light walls and ceilings.

## Isofil sheeting for water treatment plants

Filon Isofil GRP sheets have been specially formulated for use in water treatment plants and other associated processes including oil/water separators and biological waste processing. The sheets are unaffected by constant immersion in water at temperatures from -20°C to 120°C.

## Multiclad F sheets

Filon Multiclad F is a flat, lightly textured, dense, white opaque GRP panel which does not incorporate any toxic materials and has been developed for linings to walls and ceilings where hygiene is an essential requirement. The easy-clean surface of Multiclad-F make it an ideal choice for food preparation areas and abattoirs. It is also suitable for pedestrian tunnel linings.



# FILON®

# FILON PRODUCTS

a construction innovator for over 60 years

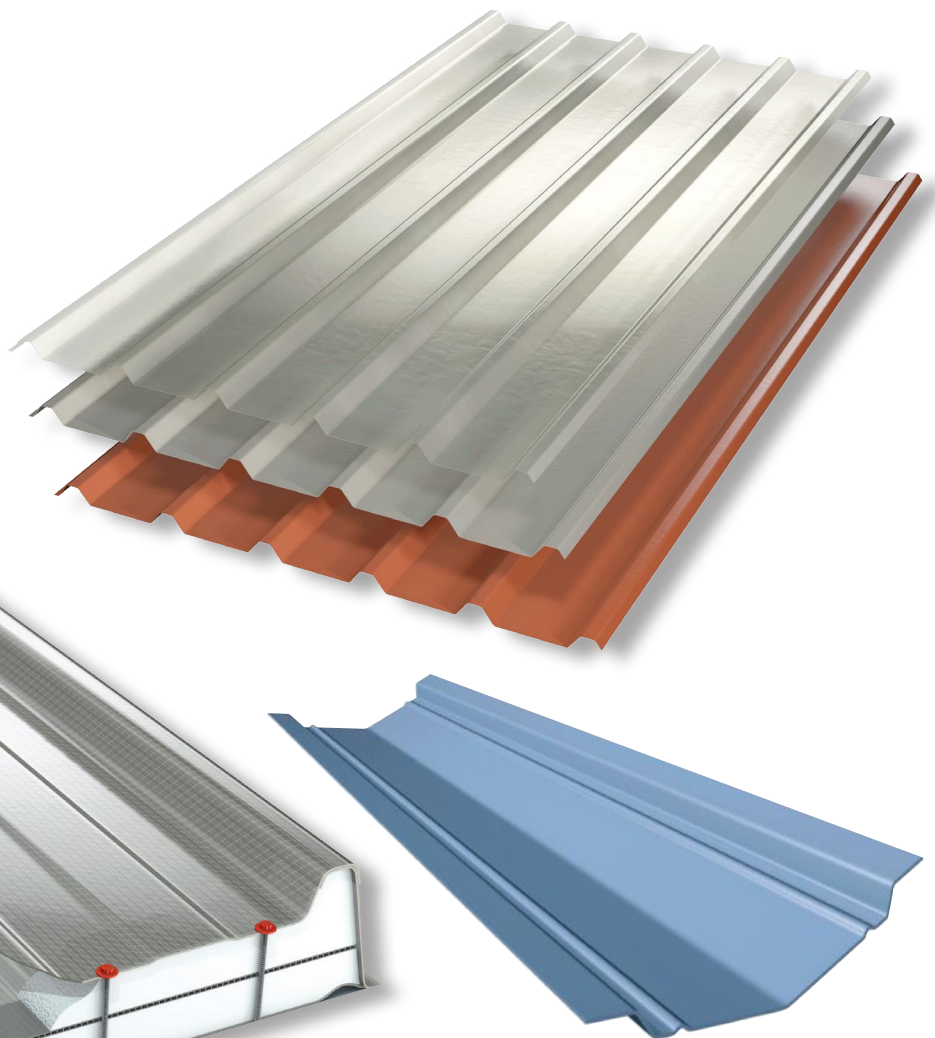
Filon Products is one of the UK's leading manufacturers of GRP (Glass Reinforced Polyester) products for building and construction. We have a long track record of successfully developing and marketing innovative products, many of which have become accepted industry standards.

In addition to GRP products for rooflighting, roofing, signage and other applications, we offer a range of other construction products. Among these is our ground-breaking Fixsafe system which is creating a safety revolution in the roofing industry by allowing profiled sheets to be fixed without operatives accessing fragile roof areas.

We serve customers in the public and private sectors, in the construction industry, oil and gas, highways, marine, transportation, manufacturing and other sectors, in the UK and many other countries around the world.

Our premises in Burntwood, Staffordshire houses state of the art manufacturing facilities for flat and profiled GRP sheet and other products. The Filon manufacturing process has been developed and refined over many years to provide a unique product that has outstanding properties as outlined in our product pages. We are an ISO 9001 accredited company and our plant carries the ISO 14001 environmental accreditation.

*Innovations in construction: Filon pioneered the original GRP profiled sheets manufactured by continuous pultrusion process in the 1950's. The company recognised the outstanding potential of glass reinforced polyester as a durable and lightweight building material and now offers an unparalleled range of roofing & cladding sheets and rooflights.*



*Filon also manufactured the first continuously produced GRP valley troughs as an alternative to costly lead products in the 1980's.*

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### **National Association of Rooflight Manufacturers – Member**

NARM is an industry body dedicated to the application of best practice in the provision of natural light in built environments. Founded in 1998, NARM today comprises all of the UK's leading rooflight manufacturers and associated businesses. NARM is an active member of the Construction Products Association and its committee plays an active role in advising Government on future Building Regulations.



### **Metal Cladding and Roofing Manufacturers Association – Associate Member**

MCRMA represents, promotes and defends the interests of manufacturing companies, suppliers, independent roofing and cladding inspectors and installers who provide products, systems and services within the non-domestic metal roof and wall market sector. As the voice for the industry, MCRMA works closely with a variety of industry bodies and Standards committees to develop building envelope solutions and to disseminate best practice, ensuring that its members operate to the highest standards at all times.



### **Composites UK – Member**

Composites UK is the Trade Body for the UK composites industry, established to support the industry so that it may continue to grow and participate in the increasingly competitive world of global composite production.



### **Filon Products Limited**

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### **National Federation Of Roofing Contractors – Supplier Member**

NFRC is the UK's largest roofing trade association. With a history spanning over 125 years, NFRC remains the voice of the roofing industry, constantly adapting to change and innovation to ensure its members are at the forefront.



### **Liquid Roofing & Waterproofing Association – Associate Member**

LRWA consists of the leading manufacturers of liquid applied coatings, approved contractors and related materials suppliers. Originally founded in 1979, LRWA aims to raise awareness of the technical and financial benefits of liquid-applied roofing & waterproofing systems and to establish product and installation standards to ensure that optimum performance is achieved.



### **Rural & Industrial Design & Building Association – Supplier Member**

The Rural and Industrial Design and Building Association (RIDBA) is the leading trade association for the modern agriculture and industrial buildings industry in the UK. Providing a strong collective voice for the sector, RIDBA represents member views to the wider industry including government, leading client organisations and other key stakeholders.

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