

FILON® roofscape

Your regular update from the leader in GRP building products

FILON

Filonite
Product description: GRP roofing sheets

Conformable sheets for a wide range of applications

Minimal overlapping with weather-tight joints

Long maintenance-free life

Work straight and without noise

Easy to use

Can be used on roofs with lead footings

Can be used on roofs with concrete or stone masonry

Manufacture according to BS EN ISO 9001:2000

Ideal for: Car Ports • Garage roofs • Covered walkways • Lean-to's • Garden sheds • Workshops

FILON

Finesse
Product description: GRP roofing sheets

Curved or flat glass-like appearance

Excellent weather resistance

Highly resistant to impact

Lightweight and easy to install

Available in various colors

Ideal for: Greenhouses • Conservatories • Leisure buildings • Exhibition buildings • Sports centers • Swimming pools • Agricultural buildings

Flex-trim
Universal roof trim & finishing

FILON

over-rooFing
Made to match most old asbestos profiles

Quick and easy to install • Economical • No planning requirement • Minimal extra weight • Minimal disruption

FILON

tecnaFlex
The flat roofing system that changes the rules

Increased lifespan • Fast, easy installation • Attractive appearance • Excellent durability • Low internal condensation

Transmits natural light to reduce energy, reduce heat and reduce the need for mechanical ventilation

High resistance to impact

Weather resistant for exterior use

Lightweight and easy to install

Good thermal resistance and durability, resistant to wind uplift

Can be used on roofs with lead footings

Can be used on roofs with concrete or stone masonry

Can be used on roofs with asphalt or bitumen

Can be used on roofs with steel

Can be used on roofs with copper

Can be used on roofs with zinc

Can be used on roofs with aluminium

Can be used on roofs with stainless steel

Can be used on roofs with titanium

Can be used on roofs with nickel

Can be used on roofs with silver

Can be used on roofs with gold

Can be used on roofs with platinum

Can be used on roofs with palladium

Can be used on roofs with selenium

Can be used on roofs with tellurium

Can be used on roofs with vanadium

Can be used on roofs with niobium

Can be used on roofs with molybdenum

Can be used on roofs with ruthenium

Can be used on roofs with rhodium

Can be used on roofs with iridium

Can be used on roofs with osmium

Can be used on roofs with tungsten

Can be used on roofs with uranium

Can be used on roofs with plutonium

Can be used on roofs with americium

Can be used on roofs with curium

Can be used on roofs with berkelium

Can be used on roofs with californium

Can be used on roofs with einsteinium

Can be used on roofs with fermium

Can be used on roofs with mendelevium

Can be used on roofs with nobelium

Can be used on roofs with lawrencium

Can be used on roofs with roentgenium

Can be used on roofs with tennessine

Can be used on roofs with oganesson

Ideal for: Greenhouses

NEW

v-Flow
Simulated lead valley gutters

Complete range for all kinds of pitched roofs

Life expectancy in excess of forty years

Light and easy to transport • Simple installation

Virtually maintenance-free

Manufacture to BS EN ISO 9001:2000

Cost-effective alternative to LEAD

FILON

FILON

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supasafe

Supasafe is the only material for the life of the roof

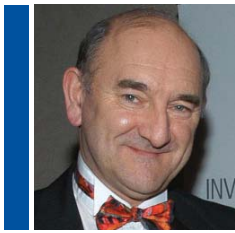
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FILON WayMarker

FILON

FILON: more than just GRP rooflights...

Welcome to **roofscape**



Welcome. Regular Roofscape readers will hopefully have noted that FILON's product range extends well beyond the GRP profiled rooflights for which we're justly famous. This issue focuses on the increasing diversity of our business and the continuing innovation with which we're meeting the demands of today's building industry.

As a company, research and development occupies a central role in our strategy and over the years, the energy, enthusiasm and expertise supplied by our technical team has led to the development of many 'industry standards'. Supasafe man-safe rooflights; Citadel profiled sheets for harsh environments; Fotolite rooflights for horticultural applications; the Tecnaflex flat roofing system; over-roofing for the refurbishment market; Flex-trim, a unique uPVC trim developed to bond to GRP... these are just the tip of the iceberg – and we're hard at it working on more new products and systems, so watch this space.

Finally, I'd like to pose a question to our readers: what do you trust more – a proven brand that's been in existence for over 50 years, or an industry certification?

We believe that the 'fitness-for-purpose' of our core products is beyond doubt and therefore we aren't inclined to invest what could be valuable R&D resources into certification. However, as the customer, it's your views that count, so please let us know what you think.

David Hathaway F.I.O.R.
Director of Sales, FILON Products

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OVER-ROOFING

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Visit FILON at the Agricultural Building Show in Somerset

FILON Products will be showing a range of rooflights, roofing and cladding systems at the Agricultural Building Show at the Royal Bath & West Showground, Shepton Mallet, on Wednesday 2nd April 2008.

Visitors to the show will be able to see the company's range of rooflights including easy-clean Multiclad F hygienic sheets which are ideal for milking parlours, abattoirs and other applications.

FILON's Fotolite specialist horticultural glazing will also be on display, as well as their well-proven over-roofing system which is ideal

for the refurbishment and upgrading of farm buildings to commercial or industrial use.

Case studies will be available covering recent projects including the refurbishment and upgrade of former cowsheds at Shack's Barn Farm in Silverstone, Northants.

Experts from FILON will be on hand to provide detailed product information and discuss specific projects if required. ◆



Former cowshed at Shack's Barn Farm, Silverstone. FILON over-roofing allowed the building to be upgraded for commercial use.

"Interbuild a big success", says FILON



Following exhibiting at Interbuild 2007, FILON is hailing the show an important success for the company.

"Interbuild provided an opportunity to get the message across to our marketplace that FILON has much more to offer than just the GRP rooflights that everyone knows us for", said Ron Allen, Managing Director. He continued: "We were delighted that so much interest was shown in our new roofing products. Additionally, the show allowed us to meet up with many partners and suppliers as well as customers." The FILON stand was a hive of activity throughout the five days of show, with visitors from all over the UK and Europe. ◆

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Polycarbonate rooflight systems

A new era for FILON Products...

Well known for its huge range of profiled GRP rooflights, FILON Products also offers a high quality polycarbonate glazed rooflight system that's proving a hit with specifiers, installers and building owner/occupiers.

Introduced to the UK market by FILON last year, the Sun Modul Finesse system features multi-wall polycarbonate panels which are hooked onto steel channels and firmly locked with special polycarbonate clip profiles, providing excellent characteristics for the creation of translucent surfaces for any kind in modern building.

**FLAT GLAZED OR
BARREL VAULT
ROOFLIGHTS**

PRACTICAL & VERSATILE

The glazing panels provide excellent light transmission and thermal insulation and are practically unbreakable. With an advanced UV resistant surface coating, weather resistance and long life span are guaranteed. The PC clip profiles are produced with the same technical characteristics as the panels.

The galvanised and plastic coated steel channels are designed to provide very high rigidity. Consequently, wide, unsupported spans can be easily accommodated.

A MODULAR SOLUTION

The system is completed by a full range of aluminium profiles for frames, seals, opening windows and other accessories for every kind of application.

The Sun Modul Finesse system combines high wind and snow loading capability, water tightness and stability of jointing, with lightness, easy assembly and the external appearance of a continuous surface.

These properties make the system particularly well suited to glazing roofs and walls in industrial and commercial buildings and any other high specification applications.

FLAT OR CURVED GLAZING

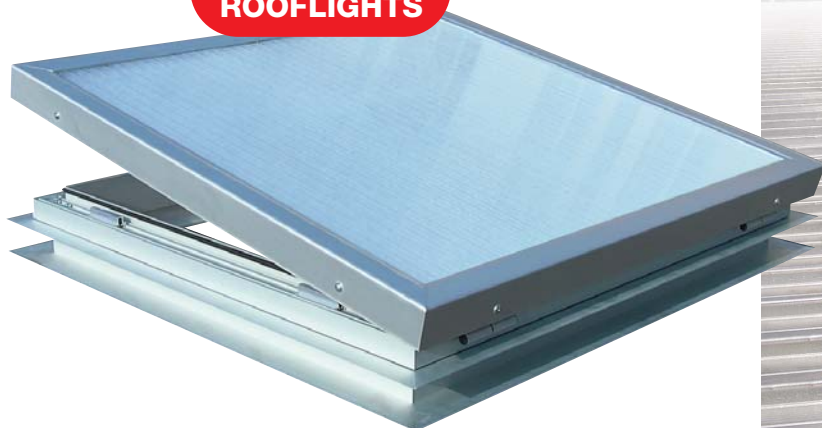
The Sun Modul Finesse System incorporates components for flat glazing, including traditional northlights, as well as curved, barrel vault rooflights. The system has been successfully specified for the replacement of existing continuous barrel vault rooflights and is equally suited to new build applications.

A new colour brochure outlining the system is available from FILON products. ◆

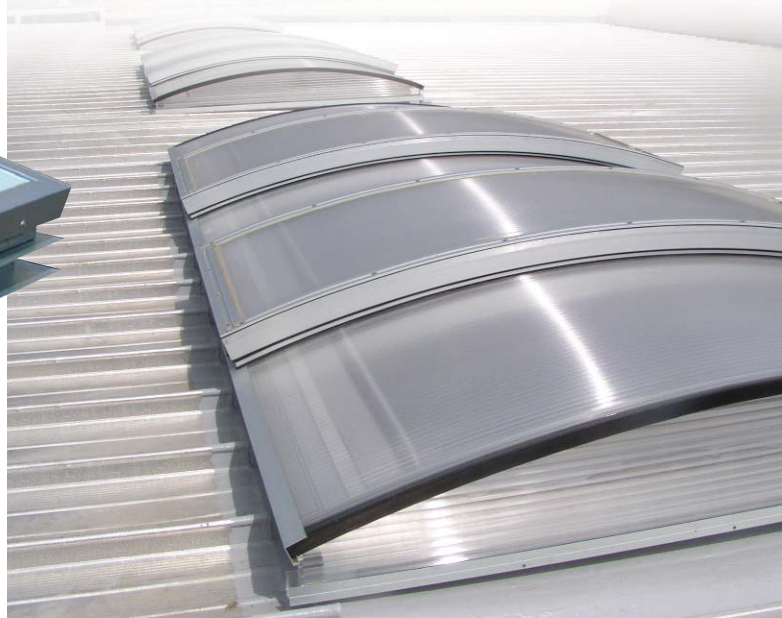
sun modul
FILON Finesse



**MANUAL OR ELECTRIC
OPENING
ROOFLIGHTS**



Above and below: Over the last year, FILON has supplied Sun Modul Finesse rooflights for buildings across the UK.



FILON GRP sheet gives level best in water management

A newly constructed dam in the North of England required permanent water level markings that would not deteriorate when frequently submerged.

FILON was able to provide a flat white GRP sheet that would be inert and totally water resistant, providing the ideal, cost-effective solution.

The sheets were produced to order and cut to shape to provide the numbers and markings required. The properties of the sheet were not affected by cutting.

Over the years, FILON has supplied a large number of specific sheets, both flat and profiled, to work in aggressive environments such as under the North Sea, in Chemical plants and even in the Desert. ◆



FILON rooflights for premier league football club

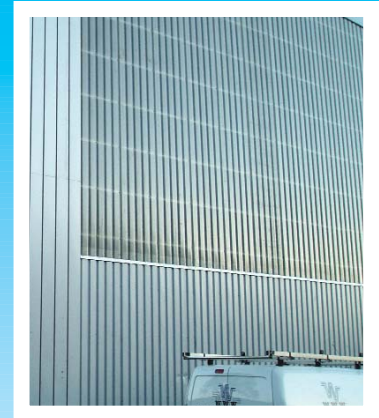
Vertically mounted FILON rooflights allow high light transmission into the new training facility for one of Britain's leading football clubs.

The rooflights were specified to match the profile of the steel external cladding of the building, to provide a seamless appearance.

Players can now enjoy the benefits of year round training on real grass without the potential disturbances caused by poor weather.

FILON rooflights can be found at many of the country's leading sports facilities and arenas, particularly as grandstand canopies to provide protection from the elements for fans.

For further information about FILON solutions for sports stadia contact FILON Products for back issues of FILON Roofscape issue 3, containing an in-depth feature on rooflights and cladding for stadia. ◆



Flex-trim provides the perfect finish

FILON's new Flex-trim system has been specified by Kemper Roofing for use on a quadrant shaped mono-pitch roof at Blackpool's Mereside Primary School.

The project is a new extension to the existing primary school, with a roof comprising plywood deck, vapour control layer, Kemper interlocking foil faced insulation, and Kemper V210M fully reinforced, fully bonded waterproofing membrane.

The client was insistent on mechanically fixed insulation due to the coastal nature of the site. The fully bonded Kemper membrane added to the security of the system, not only from the exposure point of view, but also because school premises like these can be subject to physical abuse by intruders.

To compliment the light grey colour of the membrane Kemper specified the Flex-trims in grey.

The Flex-trim system features a unique bonding strip comprising a series of raised, inverted triangular section strips. In its liquid state, the GRP laminate fills the gaps between these. When the laminate sets, the triangular sections lock into the set laminate to provide a permanent bond. No top coat is required – and cellophane masking strips pre-applied to the edge of the bonding strip, provide convenient overpaint protection for visible areas.

The sub contractor, Castle Contractors, was easily able to form the smooth curves of the fascia line using suitable cuts in the rear leg of the Flex-trim profile. ◆



Raised edge FLEX-TRIM
part of a wide range



The roof at Mereside Primary School under construction

MultiClad F – GRP cladding meets diverse needs

Filon MultiClad F is a flat, dense, opaque GRP sheet scientifically developed for cladding walls and ceilings where easy cleaning and hygiene are vital.

The panels do not contain any toxic materials and are tough, with high impact and scratch resistance, allowing frequent cleaning without surface damage. This outstanding product has many uses including, kitchens, abattoirs, hospitals, cold rooms, dairies, bakeries, butchers, toilets, laboratories, schools, corridors, stairways and many more.

The light weight of Multiclad F sheet also makes it particularly suitable for nautical and transport applications including lorry trailer linings.

Additionally, Filon MultiClad F is unaffected by temperature change making it ideal to line out freezer cold rooms, and can also be steam cleaned and pressure hosed.

The product fully complies with the Code of Practice (published by the British Plastics Federation and the British Biological Research Station) for buildings and areas involved with preparation and storage of food. It fulfils the rigorous demands of the UK Building Regulations with three fire retardant grades conforming to BS476 Part 7. ◆



Above: FILON has supplied cladding for marine applications including this Greek Navy patrol boat



Left: FILON's Multiclad hygienic cladding is ideal for all kinds of food preparation and processing environments

Supasafe beside the seaside

FILON Supasafe GRP rooflights provided the perfect weather-resistant solution for the renovation of a well-known pier on England's South Coast.

The new canopy runs to almost the full length of the pier, proving protection from the elements to visitors and holidaymakers.

The exposed coastal location and regular contact with salt spray demanded that a particularly durable material with high resistance to chemicals and UV radiation should be used for the canopy on the pier. FILON Supasafe was the obvious choice - with the added advantage that the sheets can be supplied as opaque or translucent and tinted to virtually any colour. In this case, the pier owners required a deep blue tint, which FILON Products was able to accommodate.

FILON Supasafe is a specialised GRP sheet developed to meet CDM regulations which came into force in 1994. Available in hundreds of different profiles, Supasafe sheets provide load-bearing strength which is comparable to steel, for man-safe roofing and rooflights. ◆





V-Flow valley gutters

FILON'S new range of BBA certified V-Flow GRP valley gutters provide a cost-effective alternative to lead, with a life expectancy in excess of thirty years.

A full range is available for use with clay or concrete tiles or slate roofs, as well as profiled GRP or metal roofs. Options are available for wet or dry fixing (with or without mortar).

This new brochure outlining the product range with installation diagrams is available now from FILON Products. ◆

FILON Monarch F GRP barrel vault rooflights

FILON'S Monarch F barrel vault rooflights have been installed on a variety of profiled roof buildings around the UK.

Monarch F rooflights are fabricated from robust, shatter resistant FILON GRP sheeting. They are out-of-plane rooflights mounted above



the plane of the roof – a Health and Safety Executive recommendation, to reduce risks of people falling through. When fixed, they fully comply with the HSE non-fragile impact test specifications. Where roofs are subject to extensive foot traffic, FILON'S exceptionally strong SupaSafe GRP glazing sheet is recommended for the outer glazing.

Monarch F GRP factory assembled barrel vault rooflights can be used along roof ridges, on slopes (ideally ridge down), on curved roofs greater than 25m radius and on flat roofing, in continuous runs if required. They are ideal for very low pitched roofs and for use with standing seam and secret fix roofing systems. ◆

Citadel profiled sheets for harsh environments

FILON Citadel is an exceptional profiled GRP sheet designed for applications in locations exposed to hazardous or corrosive chemicals.

FILON Citadel can be tailored to withstand extreme conditions that prevail either externally or internally.

When used for opaque roofing the sheets incorporate an additional woven glass reinforcement during manufacture. This strengthening meets the stringent demands of the Health and Safety Executive Drop Test, which requires the panel to withstand a 45kg bag dropped from a height of 1.2m without breaking.

Under rigorous testing FILON Citadel is resistant to a wide range of chemicals including Sodium Hydroxide, Chlorine, Benzene and strong acids – none of which would be suitable for exposure to standard GRP sheets. ◆



Isofil GRP sheets for water treatment plants



FILON Isofil is a scientifically formulated GRP panel for use in water treatment plants.

Using Norpol 720/700 Isophthalic resin and reinforced with E-glass fibres, sheets are unaffected by constant immersion in water at temperatures of -300°C to 500°C, with the potential to meet higher operational temperatures. The heat deformation temperatures of Isophthalic resins are significantly higher than conventional Orthophthalic resins normally used in GRP products. For temperatures above 500°C and/or harsh chemical environments, a vinyl ester formulation is available.

FILON Isofil GRP sheets are suitable for use in oil/water separators, micro flotation processes, crossflow separators, biological waste processing, refinery effluent and other similar applications. The corrugated profile of the sheets facilitates efficient separation of suspended materials and is ideally suited to this task. Isofil has also been approved by Lloyds Register of Shipping for use in marine applications. ◆

FILON WayMarkers bring road safety advantages

FILON WayMarkers are GRP delineators designed to provide maximum road side visibility both night and day.

Their GRP construction provides toughness, flexibility and durability, to ensure that they can withstand accidental impact from passing traffic, and be unaffected by the extremes of British weather over many years – with no maintenance.

To provide maximum visibility they have two Class 1 curved reflectors, one on each side measuring 140mm x 70mm supplying a reflective surface of 98cm², plus a 300mm wide single white band. These conform to the stringent demands of the Traffic Signs Regulations & General Directions 1994 requirements, as well as fulfilling Class 1 BS873 Part 6 specification for retro-reflective signs.

Their innovative design ensures they do not shatter on impact but bend flat as a vehicle passes over and return to the upright position once the vehicle has moved away, unlike tubular delineators which in the event of a collision invariably break. FILON WayMarkers therefore provide safety in the event of a collision and following the collision, when the delineator will remain operational.

FILON WayMarkers are extremely easy to handle and to install. They are simply sunk into the ground and either backfilled with earth or with concrete. Alternatively, a steel housing is provided that can be set in concrete, allowing for the FILON WayMarker to be inserted and "clicked" into place. A special tool is available for releasing the product from the housing in event of damage or redirection of traffic control. ◆



FILON over-roofing: the roof refurbishment problem solver

When old asbestos cement roofs need complete repair, the HSE requires the least disturbance of asbestos containing material and wherever possible, safe containment is the preferred solution, rather than removal. FILON over-roofing achieves this objective and is specifically designed to combat the problems of old asbestos roofs, which can be costly to replace if disposal of original roof is required.

To secure FILON over-roofing GRP sheets to the existing roof, a unique patented FILON Profix spacer has been developed, matching the existing roof profile. Spacers are laid over the old roof along the purlin line to accommodate the original hook bolt fixing then the new GRP over-roof of the same profile is laid over the spacers and fixed with self drilling screws through the spacer into the purlin.

Where higher standards of insulation are required, 60mm deep FILON Profix spacers are available. These will accommodate a 100mm quilt, or a multi-foil insulation. FILON recommends the use of the Kontrol Duo multi-foil which has BBA certification and can achieve lower U-values when used in conjunction with FILON's over-roofing system and the existing roof sub-structure. This solution can play a significant role in relation to the new Part L Building Regulations 2006. ◆



A factory roof in Camberley, Surrey, before and after refurbishment with FILON over-roofing



This roof in Darlington, had previously been sprayed with urethane foam in an attempt to cure water ingress. The foam had reacted to the asbestos cement, resulting in increased water ingress. FILON over-roofing solved the problem.

FILON over-roofing offers superior benefits and savings over alternative systems :

- **No structural survey required**
FILON over-roofing contributes minimal weight to the roof as the over-roofing elements weigh no more than the weight of water that the asbestos cement sheets will absorb and retain following a prolonged downpour.
- **Minimal installation costs**
As a one-fix system, installation time is minimised. Long sheet lengths reduce end laps and speed up laying time. No realignment of gutters is necessary.
- **Minimal disruption**
All fixing is carried out externally, so disruption to building occupants is negligible.
- **Reduced heating costs**
Improved insulation results in significant savings.
- **No asbestos handling**
No complex disposal problems and no landfill tax.
- **Minimum service life of 30 years**
FILON over-roofing creates a permanent weather sealed roof.
- **Virtually maintenance free**

...and finally: Congratulations to Norman Little on 25 years service!

FILON's Area Manager for the South of England, Norman Little, has joined the elite of FILON 'Lifers' – those persistent and hardy souls who have seen over twenty five years service with the company. One of FILON's best-known representatives, Norman's contribution over the years has been immeasurable. Everyone at FILON wishes him even greater success over the next twenty five years!



roo**FILON**lights and Part L:

Compliance is easy
when you specify
FILON rooflights

Draw on FILON's experience and technical knowledge for a rooflight specification that will help your building achieve the CO₂ emissions targets set in the new Part L2A Building Regulations.

- Rooflight areas up to 20% make a positive contribution to compliance
- Triple skin rooflights with U-values of 2.2W/m²K or better
- Rooflights available to match virtually any profiled sheet - even discontinued profiles

For product information or technical support, call us now on **01543 687 300**

FILON[®]

www.filon.co.uk

