

FILON[®]

roofscape

Your regular update from the leader in GRP building products

The most innovative GRP
rooflights & roofing products

under the sun?

Plus:

Health & Safety

FILON's Fixsafe system makes
life safer for roofers

P4

GRP over-roofing:

The perfect refurb solution for an
asbestos cement roof in Yorkshire

P5

Part L revisited

How the new regs affect in-plane
rooflight specification

P8

Welcome to roofscape

With the economic situation as it is, it is important to keep a positive attitude and not get dragged down with all the doom and gloom. At Filon, we are certainly extremely positive and maintaining our focus on innovation – to help our customers stay ahead of the game.

The new training facility for our innovative Fixsafe System, where we are working in partnership with Ploughcroft Training, will help contractors and clients to carry out roof refurbishment work safely and cost effectively. The continued success of Fixsafe is helping to reduce deaths caused by falling through fragile material. A real bonus for us in these difficult times was achieving the Editor's Award in the Professional Building magazine for our Fastlock polycarbonate system. On top of this, the continued success of our Finesse rooflights and the introduction of our Fyrovent (smoke vents) shows how FILON is moving forward. Last, but by no means least, congratulations to Steve Vickers for his well deserved promotion to Director within our company.



David Hathaway

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FILON delivers nationwide Part L CPD seminars

David Hathaway of FILON Products is on the road with the DCE CPD Seminars during 2011, delivering a comprehensive presentation entitled 'Lightweight Over-roofing, Roof Refurbishment and the effects of Part L 2010'.

This seminar covers GRP lightweight over-roofing to old asbestos cement roofs and solutions on how to repair or replace broken fragile sheets or rooflights without having to access fragile roofing. The seminar also covers the effects of Part L on refurbishment works and draws on data from FILON's vast roofing experience.

Seminar dates

N. Midlands Buildingex CPD Seminars
Stoke, June 16th 2011

E. Midlands Buildingex CPD Seminars
Leicester, June 21st 2011

Nottsbuilt CPD Seminars
Nottingham, June 22nd 2011

Lincsbuilt CPD Seminars
Lincoln, June 23rd 2011

Shropshire Buildingex CPD Seminars
Shrewsbury, July 5th 2011

S.W. Wales Buildingex CPD Seminars
Swansea, September 14th 2011

Sussexbuilt CPD Seminars
Crawley, October 4th, 2011

N.E. Scots Buildingex CPD Seminars
Aberdeen, 25th October 2011

E. Scots Buildingex CPD Seminars
Edinburgh 26th October 2011

W. Scots Buildingex CPD Seminars
Glasgow 27th October 2011



Steve Vickers appointed Director at FILON

Steve Vickers has been promoted to become a Director of FILON Products.

With over 30 years experience with FILON, Steve has risen through the ranks to become an important part of FILON's Management team. Steve already sits on a number of roofing committees and has major input into the roofing industry, not only in the UK but in Europe. His new role as Technical Sales Director will put Steve at the forefront of the company over the coming years. Ron Allen, FILON's Managing Director stressed how important Steve's appointment was at this point in time. With FILON's long term strategy in place, Steve will be tasked with moving FILON towards its long term aims by providing an unrivalled technical and commercial service through our combined and extended customer service department. ♦



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Monarch Rooflights rule on standing seam roofs!

FILON Monarch F factory assembled rooflights are designed for use on standing seam and secret fix roofing systems, continuous ridge applications and flat roofs.

Ideal for shallow roof pitches, flat roofs and curved roofs down to a minimum 25m radius, Monarch F rooflights are fabricated from high quality FILON GRP sheets which are robust, shatter resistant and unaffected by extremes of temperature. Long-term surface protection is provided with highly durable UV resistant polyester film to the weather face, which extends the durable working life of the sheet and limits yellowing.

Tough, durable and safe

When used in applications where the rooflights may be subject to mechanical damage, Monarch F rooflights can be specified with extra strong FILON Supasafe top sheets. These rooflights will remain durable and non-fragile for 25 to 30 years and as they project above the plane of the roof, the the risk of persons falling through the rooflight, is greatly reduced.

Monarch F rooflights also offer excellent light diffusion and fire resistance characteristics, making them suitable for a wide range of applications. ◆



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Encore! for Fixsafe in Manchester

Following the successful installation of replacement rooflights using the FILON Fixsafe system at HSBC's Manchester storage facility in 2010, roofing contractor Blackwell Stanistreet used Fixsafe again for the second phase of the project.

Blackwell Stanistreet's Managing Director John Watson commented: "After the success of the first phase of this project it was a foregone conclusion that the Fixsafe system would be our preferred product for the second phase.

The Fixsafe system removes the need for roofing operatives to access fragile roofs, allowing installation to be carried out below the roof, from the relative safety of a cherry

picker or access platform."

Steve Vickers, FILON's Technical Sales Director stated "The Fixsafe system not only improves the safety aspect of working at height. It also simplifies the entire process of replacing broken fragile sheeting or rooflights, with no need for scaffolding, roof staging or safety netting."

This new concept of working from the underside of the roof to replace sheeting is now gaining wider acceptance throughout the industry, with the growing understanding of the significant safety and other operational advantages it brings.

Blackwell Stanistreet can be contacted on 0161 8722821 or visit their web site, www.blackwellstanistreet.co.uk ♦



Fixsafe stars at roofing training facility

Ploughcroft – one of the UK's most accredited solar companies recently opened the doors of their new Eco Roof Visitor Centre, with a training area providing courses for contractors.

FILON's Fixsafe system plays a key part in one of the training programmes that Ploughcroft offers here. The course covers the HSE's Working at Height regulations with the focus on working on fragile roofs. The Fixsafe system is FILON's innovative solution for safe replacement of profiled roofing sheets and rooflights.

The system ticks all the compliance boxes, as it allows all work to be carried out from below the roof, so there is no need for roofing operatives to access dangerous fragile roof areas. With Fixsafe, the entire process can be carried out beneath the roof, from the relative safety of a cherry picker or access platform, alleviating many of the compliance problems associated with the Working at Height Regulations.

In addition to increased safety, the Fixsafe system has proved to be extremely cost effective - as there is no requirement for safety netting, scaffolding or roof platforms/staging.

Deaths and injuries caused by falling through fragile material have always been a blight on the roofing industry. Fixsafe is already making a real and positive impact on safety in roofwork.

The course at present is a full day and Ploughcroft is offering a 20% introductory offer to build awareness of the system. FILON has reduced the price of the Fixsafe sheets by 25% for a period of 6 months, again to give contractors the opportunity to use the system and discover the advantages for themselves.

The Eco Roof Visitor Centre is located in Huddersfield, West Yorkshire. For further information, visit www.ploughcrofttraining.co.uk. ♦

The Fixsafe training rig at Ploughcroft's Visitor Centre



Protect your workforce

Falls through fragile roofs, when replacing broken sheets or rooflights, account for a high proportion of injuries and deaths on construction sites. Fixsafe protects your workforce by eliminating the need to access fragile roofs.



Case study:

FILON Over-roofing at Yorkshire Water's Buttershaw Depot

Lightweight GRP Over-roofing was the perfect solution for refurbishment of this large asbestos cement roof in Bradford.

Yorkshire Water's Buttershaw Depot Building in Bradford, was constructed in 1971, using a steel portal frame with an asbestos cement roof. Degradation of the original roof had resulted in water ingress leading to other problems, so in 2010 a refurbishment programme was planned. Yorkshire Water's requirement was simply to provide a cost-effective solution, making the building wind and water proof and extending its working life by ten to fifteen years.

Two key factors had to be taken into consideration. First, the building loading would not allow a metal roofing system to be used. Second, removing the existing asbestos roof would present a significant health & safety hazard – both to operatives working on the roof and to Yorkshire Water's own employees at the site.

Lightweight GRP FILON Over-roofing was the obvious solution - meeting both these critical requirements as well as providing a proven, long working life.

FILON Products worked with main contractor Mitie (formerly Mitie Tilly Roofing) to ensure the correct specification and installation of the roof.

The FILON GRP Over-roofing sheets

were manufactured to match the existing profile of the asbestos sheets. They were then installed over the existing roof, using FILON's patented profix spacer system, which also allows a cavity sufficient for the inclusion of insulation, if the thermal specification of the roof is to be upgraded.

The extreme lightness of FILON Over-roofing, compared to metal profiled sheets, is the characteristic that allows this extremely simple solution. Additional loadings are minimal and, crucially in this case, there was no need to subject personnel to risk by disturbing and removing the existing asbestos. This factor creates another advantage, by removing the requirement for costly disposal of the asbestos.

Furthermore, FILON Over-roofing is simple to install and greatly reduces time on site compared to alternative profiled roof refurbishment methods. ♦



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Before



During



After

Canopies score at Bedworth United



Industry-leading supplier Canopies UK has completed a significant installation at Bedworth United Football Ground.

The 30m long GRP canopy keeps fans dry and sheltered while watching matches and, as it is built onto the side of the social club, also acts as an outdoor eating, drinking and smoking shelter during functions. Canopies UK used their popular System 2000 canopy for this installation. The cantilever design eliminates the need for support posts, so there is nothing to bump into or obstruct people's view of the game.

Canopies UK and FILON Products have a long history of working together to provide innovative products to meet clients' needs. Visit www.canopiesuk.com for details. ♦

Fastlock is favourite: Professional Builder

FILON's Fastlock polycarbonate canopy glazing system has won a coveted 'Editor's Award' in Professional Builder magazine.

The award is made to products or services which, in the view of the Editor, represent the best in new innovations and generate the highest reader response and interest

Tough, lightweight, UV protected Fastlock polycarbonate panels simply click together to span any width. The flexibility of the material also allows curved structures to be easily fabricated, with radii down to 1.5m.

Since its introduction, FILON Fastlock has been used to provide canopies and shelters at swimming pools, garden centres, schools, nurseries and a variety of other applications around the UK.

Ian Duff of Professional Builder said: "The Fastlock System is a worthy winner of our Editor's Award. The design is simple, it's fast and easy to install and the finished structures look great. No wonder so many of our readers have shown interest in it."

Fastlock panels are available in clear and white polycarbonate, with colours available to special order. ♦



Training centre, Liverpool

Finesse polycarbonate rooflights – daylight for diverse applications.

FILON Finesse multiwall polycarbonate barrel vault rooflights have been installed in a variety of different kinds of buildings throughout the UK, from schools and colleges to retail and commercial premises.

The Finesse system features multi-wall polycarbonate panels that are hooked onto steel channels and firmly locked with special polycarbonate clip profiles, to provide a durable rooflight with excellent light transmission and thermal insulation. With an advanced UV resistant surface coating, weather resistance and long life are guaranteed.

The galvanized and plastic coated steel channels are designed to provide very high rigidity. Consequently, the system can be used for wide, unsupported spans.

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

Recent Finesse installations include a training centre in Liverpool, where four Finesse barrel vault rooflights have been installed over a large workshop area. The centre provides a training facility for construction trades, together with office accommodation, classrooms, café and all necessary supporting accommodation.

Finesse rooflights have been installed at garden centres throughout the UK. These bring natural daylight to the large main retail areas of the buildings, to provide a pleasant environment for shoppers. ♦



Finesse opening rooflights



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Rooflights & Part L: technical update

By Steve Vickers M.I.o.R.,
Technical Sales Director, FILON Products

The latest Part L Regulations for The Conservation of Fuel and Power came into effect on the 1st of October 2010 and are part of the ongoing Government programme to reduce CO₂ emissions from UK building stock with the eventual aim of achieving zero carbon buildings. This article is concerned with Part L2A for New Buildings other than dwellings.

Part L 2010 still requires that the Building Emission Rate (BER) of a new building should not exceed the Target Emission Rate (TER) as determined through the National Calculation Methodology (NCM) using the approved Simplified Building Energy Model (SBEM) software. Although this is the case, Part L 2010 changes the way that targets are achieved and adopts an aggregate approach with recognition of the fact that it is easier to make improvements in reducing the CO₂ emissions of some building types than others. With the target of an aggregate 25% improvement across the building stock, some building types will be required to achieve more than 25% and others less. The 2010 Notional Building type used to generate the TER is based upon the aggregate approach. The notional building may be one of three types as follows:-

- Rooflit, examples include industrial buildings, warehouses and large commercial outlets.
- Sidelit, examples include shops, offices and classrooms.
- Unlit, examples include cinemas, theatres and some storage facilities.

The limiting U-values within AD-L2A 2010 remain the same as the 2006 version whereas the values within the 2010 notional

building are lower than stated in AD-L2A 2010. For example, the limiting U-value for roofs in AD-L2A is 0.25W/m²K, it is 0.35W/m²K for walls and for rooflights it is 2.2W/m²K. The U-values within the 2010 notional building are 0.18W/m²K for roofs, 0.26W/m²K for walls and 1.8W/m²K for rooflights. This means that compliance may not be achieved if the limiting U-values provided in AD-L2A are used at the design stage. It should also be noted that the TER and the Design Emission Rates (DER) must be submitted to Building Control at the design stage and at completion, therefore any unauthorised changes to specification may result in non-compliance.

Part L 2010 includes a requirement to limit the effect of solar gain in the summer in order to control the use of air conditioning. Limiting glazed areas including rooflights is one method provided to achieve this but solar gain is not only generated through glazing, internal gains are also generated by electrical equipment, people, artificial lighting and process equipment with the effectiveness of any ventilation being another factor that can affect solar gain. The area stated for rooflights is dependent on the height of the rooflights above the work zone, the frame factor (end and side

laps for example) and the rooflight g value which is the total transmitted solar energy. For a height below 10m the maximum rooflight area stated is 10% with a frame factor of 25% and a g value of 0.68. For a height above 10m the maximum rooflight area stated is 20% with a frame factor of 15% and a g value of 0.46. These areas will change for rooflights with higher or lower G values than those stated. For correctly specified rooflights used on work zones less than 10m high the rooflight area should be 10 to 15% of the floor area. For work zones above 10m high the rooflight area should be 12 to 20% of the floor area.

Part L 2010 requires air leakage testing on most buildings after completion with the worst case value stated in AD-L2A being 10m³/hr/m² at 50 Pa whereas the notional building uses a value of 5m³/hr/m² at 50 Pa. This should be considered at the design stage as the BER must still meet the TER when the building is air leakage tested and the BER is recalculated using the actual tested value.

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