



*A masterpiece of
style and engineering*



Our History

We have a history of working with metal stretching back to 1893. During the 1914 - 1918 War we were contractors to HM Government supplying horseshoes, nails and brackets for the gun carriages and other horse drawn vehicular items.

In the 21 years of peace between the wars we expanded into a specialist manufacturer of builders' ironwork, taking out patents for many of the products that we produced. When hostilities commenced again in 1939, the company reverted to the role of supplier to the War Department, providing components for tanks, bailey bridges, ladders etc.

In 1945 the company expanded rapidly into structural steelwork whilst continuing the original business in the building industry.

Today Tuscan Foundry Products have become one of the country's leading manufacturers and suppliers of traditional metal roofing, plumbing and drainage products.



Introduction

The Lumen rooflight has been especially made to replicate a traditional Victorian design, with the additional benefit of a high specification of glazing incorporating Pilkington Activ - the world's first self cleaning glass. Everything from its slender lines of steel right down to its manufacturing tag demonstrate its authenticity has been carefully crafted.

Manufactured entirely in Great Britain, the Lumen rooflight offers something for architects, contractors and clients alike, whether your requirements are led by design practicality, ease of installation, maintenance or safety.

We have a deserved reputation for providing high quality products and for being one of the leading suppliers of conservation style rooflights; we can be trusted to deliver excellence - every time.



Lumen Range of Steel Conservation Rooflights

The frames are manufactured to ISO 9001 using robust 3mm Zintec* steel which is then polyester powder coated in RAL 9005 matt black as standard although other colours are available upon request.

All of our rooflights offer a high specification of glazing that incorporates a 4mm toughened safety outer leaf with 'Pilkington Activ' self-clean, a 16mm argon gas filled cavity and a 4mm inner leaf of Pilkington K toughened. The units are bedded and fronted by hand, using silicone to resemble the traditional putty appearance so often found on original Victorian rooflights.

In addition, all of our Lumen rooflights are supplied with an anthracite Valchromat interior liner and a solid brass or chrome winding mechanism.



*Zintec, British Steel's electro-zinc coated steel sheet and coil, offers a number of advantages over ordinary uncoated mild steel. Zintec's corrosion resistance protects the steel in transit, in storage, during the production process, and in the finished product.



Performance

Lumen steel conservation rooflights comply to BS6375: Part 1: 2004

Air Permeability +/- Class 4 up to 600 Pa

Watertightness 600 Pa Class 9A (no leakage)

Wind Resistance Class E2500 P1

Overall Class CE2500

- P1 2500 Pa

- P2 1250 Pa

- P3 3750 Pa



Lumen Light

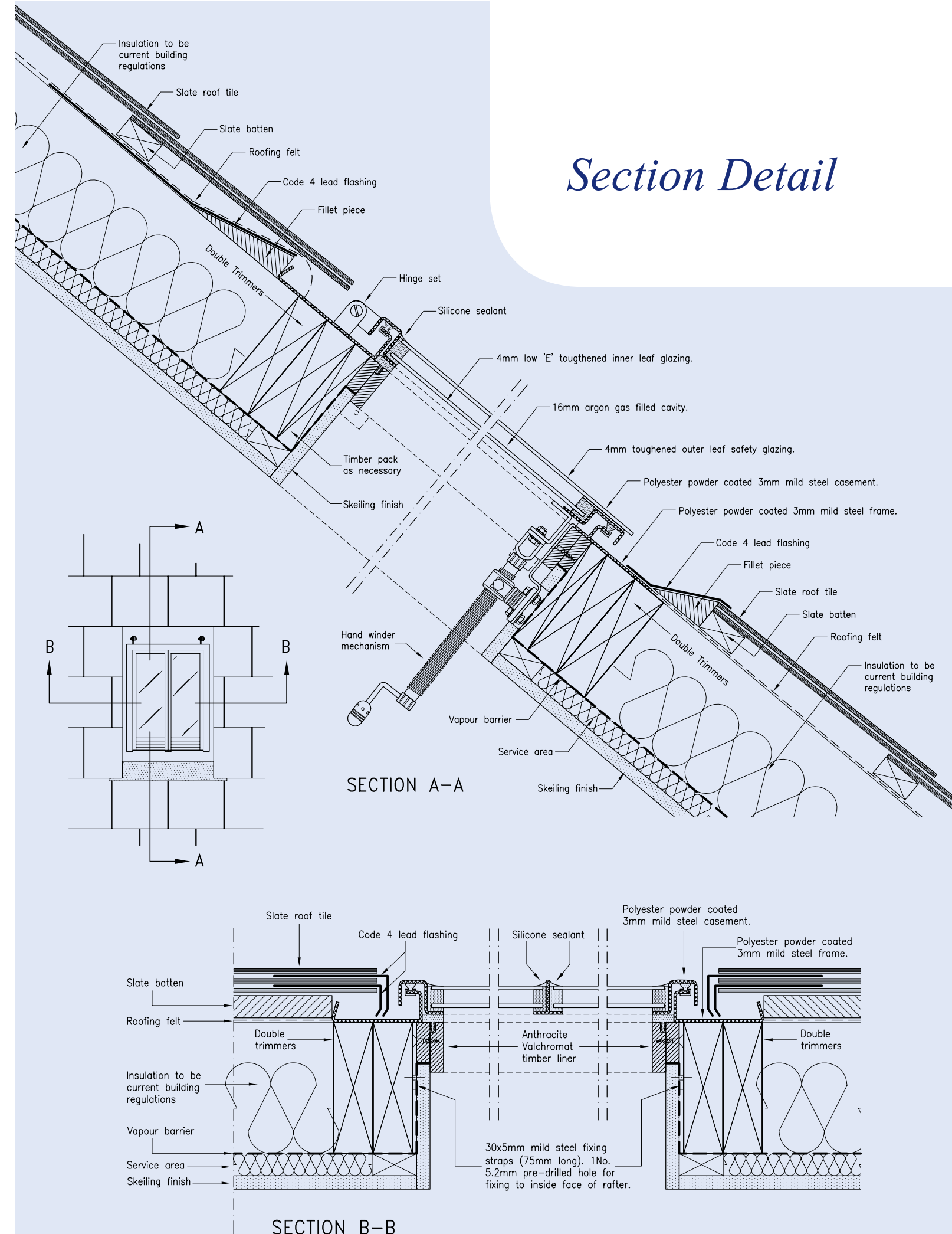
The Lumen Light offers a range of six standard sizes which are available from stock for next day delivery. If you are working to a tight deadline these standard sizes can be linked together using our capping section. Linking the Lumen Light offers the benefit of increased light without the wait for a special to be manufactured. The range can also be adapted for escape purpose and use gas springs to hold the opening section open in case of emergency. The Lumen Escape Light uses the same winding crank as the stock sizes for everyday opening. The gas springs are only to be used in case of emergency.



Lumen Extra Light

This system gives you the freedom to open up your roof space without the constraints of standard sizes. We can manufacture to suit your design and offer the flexibility to work with you to achieve your requirements. For dimensions smaller than 2000mm wide or 1800mm high, we can manufacture the rooflight with a single outer frame. For larger sizes we would use our unique link system whereby a rooflight is manufactured to your overall dimensions using multiple frames to provide a virtually seamless row of rooflights. Unlike the linking of standard sizes, this interlocking design considerably reduces the amount of visible steel between each casement and increases the amount of light and ventilation. Casements can be opening or fixed, have multiple or no glazing bars* and as with all our standard range, can be operated either with our hand mechanisms or electrically.

*within manufacturing tolerances



Note: Designers are advised to check their own details for compliance with all applicable Local Authority by-laws, Acts of Parliament and British Standards Codes of Practice.



The Lumen Steel Conservation Rooflight



Linking Standard Lumen Rooflights

If your project requires a continuous run of conservation style rooflight then the Lumen Light standard sizes can be joined side by side using our special linking bar.

These are identified by first the product code and then the number of rooflights

LR1/3 = 3 of the Lumen 1 rooflights joined side by side

Clear viewable = 3 x 341mm x 451mm

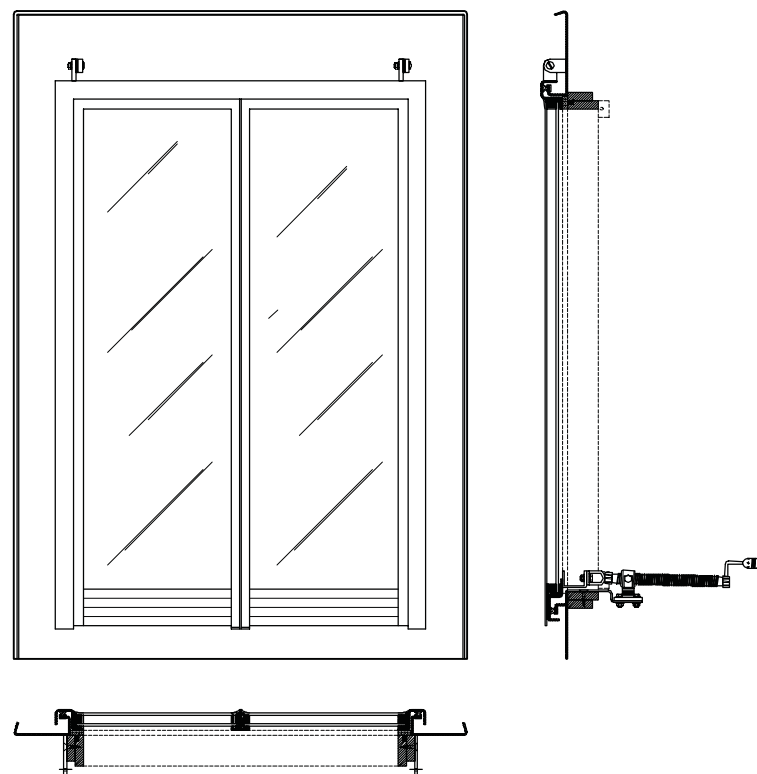
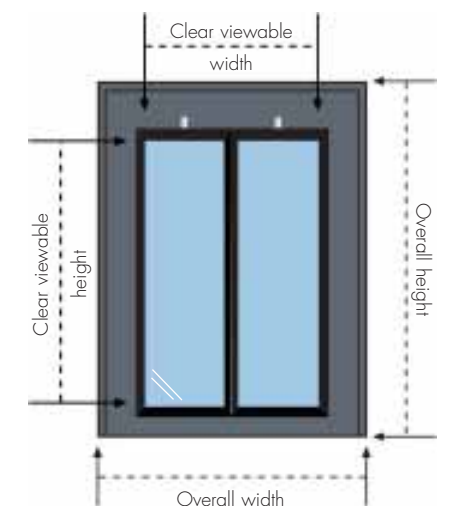
Overall size = 1773mm x 753mm

Linking the Lumen Light offers the benefits of increased light without the wait for a special rooflight to be manufactured.



Standard Sizes

	Clear Viewable W x H (mm)	Internal Rafter W x H (mm)	Overall Size W x H (mm)	£
LR1	341 x 451	417 x 563	591 x 753	359
LR2	418 x 568	494 x 680	668 x 870	391
LR3	418 x 719	494 x 831	668 x 1021	414
LR4	568 x 867	644 x 979	818 x 1169	507
LR5	722 x 867	798 x 979	972 x 1169	572
LR6	874 x 1179	950 x 1291	1124 x 1481	732



Accessories

Hand Mechanism

Where the base of the frame is easily reached, we have designed a beautifully crafted winder mechanism for smooth and easy opening.

Available in Brass or Chrome finish as standard, 300mm or 150mm length.

Also available in 24 carat gold plated.

Loop Mechanism

For use with pole for opening and closing the rooflight.

Available in Brass or Chrome finish as standard, 300mm or 150mm length.

Also available in 24 carat gold plated.

Wheel Mechanism

Alternative wheel winding handle option, available in Brass or Chrome finish as standard, 300mm or 150mm length.

Also available in 24 carat gold plated.



Electric Mechanism

With a particularly compact design and high efficiency, the drive requires only a small amount of space for mounting position.

High quality materials and diligent engineering facilitates a reliable and unobtrusive system.



Blinds

A range of blinds has been specifically designed for Lumen rooflights.

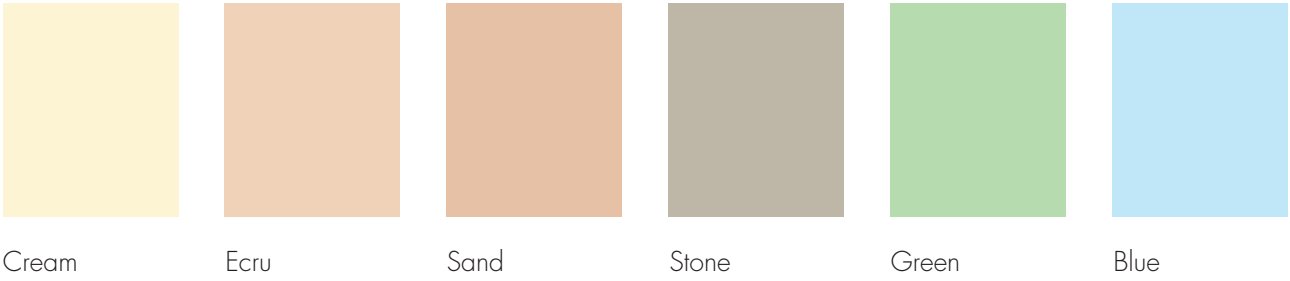
Pleated blinds are the most frequently used type and generally gives the best results. The blinds consist of fabric which is folded as concertina. Usually the fabric is made from polyester or composite materials and normally has a reflective backing to reduce heat gain. Fabrics are made in different densities to give more or less shading.

The pleats are normally of a 25mm or 20mm pitch. These blinds are usually pole operated but can be motorised. The advantages are neat fixings and good coverage of the glass.

Our standard range of blinds can be motorized for less accessible locations.



Colours Available



Winding Cranks

The winding mechanism for opening and closing the rooflights, for use with Loop mechanism.



Lengths Available

Size	£
1m	35
1.5m	45
3m Telescopic (1.8m closed)	60

Case Studies



North Devon

The conversion of this 18th century Grade 2 Listed stable block was overseen by English Heritage and uses ten bespoke long and narrow 'Lumen Extra Light' rooflights to allow ample light into three maisonettes. The three maisonettes will provide accommodation for the housekeepers and trained staff running Youlston Park Manor which offers traditional luxury breaks.



West Sussex

This project, located in a Conservation Area, required two rooflights that had to be installed from the inside and then fixed shut. The bespoke Lumen Extra Light range was chosen for its traditional appearance to sympathise with the architecture of this remarkable 17th Century property.



Surrey

This charming period cottage utilises the standard range of Lumen rooflights to provide ample light to a loft conversion. Used as a play area and bedroom for a young child, the rooflights are fitted with short winders to restrict the opening distance of the casements. These rooflights also make use of our range of pleated blackout blinds.

The Lumen Cast Conservation Rooflight

The Lumen range also includes the Cast Conservation Rooflight; a top hung rooflight cast with the traditional detailing of a 19th Century original. Manufactured using durable aluminium the Cast Conservation Rooflight offers excellent resistance to weathering and is polyester powder coated to RAL 9005 matt black as standard.

Double glazed units are manufactured using a 4mm toughened outer pane, 14mm argon gas filled spacer bar and a 4mm toughened low E inner pane. The units are bedded and fronted by hand, using silicone to resemble the traditional putty appearance so often found on original Victorian rooflights.

Available from stock in three sizes, these opening rooflights have a sculptured glazing bar and are weatherstrip sealed against draughts. The casement is secured to lugs on the outer frame using stainless bolts and nylock nuts and is opened with a solid brass or chrome winding mechanism. In addition the rooflights are supplied with a fitted interior liner.



Standard Sizes

	Rooflight Size W x H (mm)	Aperture Size W x H (mm)	£
LRC3	647 x 1008	447 x 748	385
LRC4	797 x 1156	597 x 896	471
LRC5*	951 x 1156	751 x 896	532

*LRC5 has 3 panes of glass



The Lumen Cast Conservation can be used in all types of roof and is specifically designed for use in conservation areas, historic and listed buildings.

FAQ

Why should I choose Lumen conservation rooflights over other traditional skylights available on the internet?

Whilst there are many suppliers of traditional skylights we believe that our attention to detail makes the Lumen range of rooflights stand out from the rest. Firstly, we have chosen to manufacture our products in the UK and have recently set up an additional factory in Devon to assist with production and finishing. Manufacturing Lumen at our factory rather than somewhere in Asia or Eastern Europe gives us total control of not just production but also quality. This also allows us to keep our delivery times to a minimum. However, it's not just the UK manufacturing that we are proud of. Our designers have opted for the highest specification in all of the components used in Lumen rooflights. Our double glazed units are manufactured in the UK by Pilkington and offer Pilkington K toughened glass, argon gas fill and Pilkington Activ self clean as standard on every product. Our winding mechanisms are solid brass and offer an increased width of the spindle to ensure the opening section doesn't bounce when closing. The clip used to release the winder from the opening section (for emergency access) has also been improved to make it easier to use. Each rooflight is supplied with a fitted interior liner in black to give the product a finishing touch. We decided to supply the liner fitted to make the installation process easier. The liners are also manufactured by hand in Devon

and each has a unique tag to identify when the rooflight was made and by whom. This means that should you ever have a question about your rooflight, we will be able to identify all the relevant details about it. Whilst it may appear that all rooflights are the same, we pride ourselves on making more effort to ensure your home has the very best. We work closely with the SPAB and fully appreciate the appropriate use of rooflights. Many conservation specialists will argue that the smaller the rooflight the better but we have made a considerable effort to design a product that is not only sympathetic to its surroundings but is manufactured to last for many years.

Is your cast rooflight really a cast product?

Yes it is. In actual fact we are able to offer a traditional rooflight in either our double glazed cast aluminium version or the single glazed cast iron type. For further details please call our team on 01403 860040.

Do your range of conservation rooflights have a centre bar like my original ones have?

All of our traditional conservation rooflights have a genuine glazing bar. This particular design feature is integral to the rooflight and not only provides a more authentic look but offers increased strength for the opening section. Other manufacturers of conservation roof windows have opted to remove the traditional bar in favour of sticking something to the double

glazed unit. Whilst this may provide a minimal benefit to the thermal performance, we at Lumen believe it significantly detracts from the appearance and moves the product even further away from the original.

Are your Lumen traditional roof windows double glazed?

The Lumen range of conservation rooflights are supplied with fitted double glazed units. Not only are they double glazed but they offer the benefits of toughened glass and argon gas. The steel rooflight includes Pilkington K Glass and Pilkington Activ self clean. This is supplied as standard on all Lumen steel rooflights.

When choosing a unit manufacturer for Lumen rooflights we decided to use one of the world's largest manufacturers of glass and glazing products; Here's why: - Founded in 1826 and a member of NSG group from June 2006, Pilkington is a leader in the global Flat Glass industry - 6.4 million tonnes annual output of float glass - 36,000 employees worldwide - Manufacturing operations in 26 countries - The Float process, invented by Sir Alastair Pilkington in 1952 is now the world standard for high quality glass manufacture. Inventors of the world's first self-cleaning glass - Pilkington Activ™. With this kind of support, we know that we are able to utilise the very best in glass and glazing technology for the Lumen range of rooflights.

We have been advised that we might require planning permission for installation of a conservation roof window. Please can you advise.

We would always advise that you check with your local authority before installing Lumen conservation rooflights. There are many factors that will decide whether you are granted permission to use rooflights and if your property is listed or in a Conservation Area you may find restrictions concerning the type of rooflight that is allowed.

Fortunately, the Lumen range of conservation rooflights replicate a traditional Victorian pattern. In addition the low profile design will ensure that your Lumen rooflight will sit flush with your roofline.

In your brochure you quote a clear viewable area, an internal rafter and an overall size. Please can you explain how I size the rooflight required.

As the Lumen rooflight is fixed into the sides of the rafter, this is normally the most critical size. The clear viewable size is the glazed area that is viewable from the inside. This measurement takes into account the fitted interior liner that is positioned inside the opening section. The overall size is given to inform the installation team just how much space is required on the outside of the roof. However, much of the outer section will be covered by the tiles or slates so this is not to be taken as the viewable size from outside. When using one of the standard stock sizes, you will need to fit your rafters round the dimensions of the rooflight. If you

want a conservation style roof window to suit your project, we can manufacture bespoke sizes. In this case, you can provide us with either, viewable, rafter or overall size and we can work out the other sizes for you.

How long is the guarantee?

15 YEARS: The outer frame and opening leaf, polyester powder coating, stainless steel fixing screws and weatherstripping.

5 YEARS: Double-glazed units, glazing tape, winder and interior liner.

1 YEAR: Gas springs (1 year from date shown on each spring). This guarantee is subject to compliance with guidelines supplied with order. Guarantee subject to severity of location and compliance with our maintenance instructions. Full terms and conditions are available from the address below.



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