

Designed with **you** in mind



Rooflight Brochure



Howells
www.howellsglazing.co.uk







Howells Rooflight Systems

Our rooflight range meets with the exacting requirements of homeowners today, who are now more informed and knowledgeable. It includes our new Ultraline flat rooflight system, mono and double pitched, as well as our hipped and truly bespoke designs - made to fit your unique specification.

The many adaptations that can be made to the rooflight, such as adding upright windows to create a lantern effect, adding opening vents, or selecting any two colours from the RAL colour range, can truly make your rooflight one of a kind.

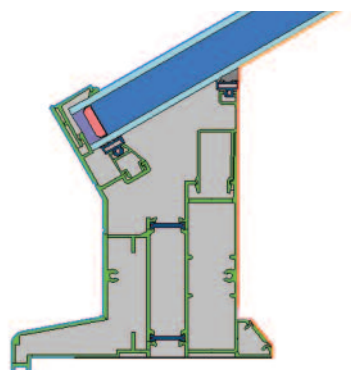
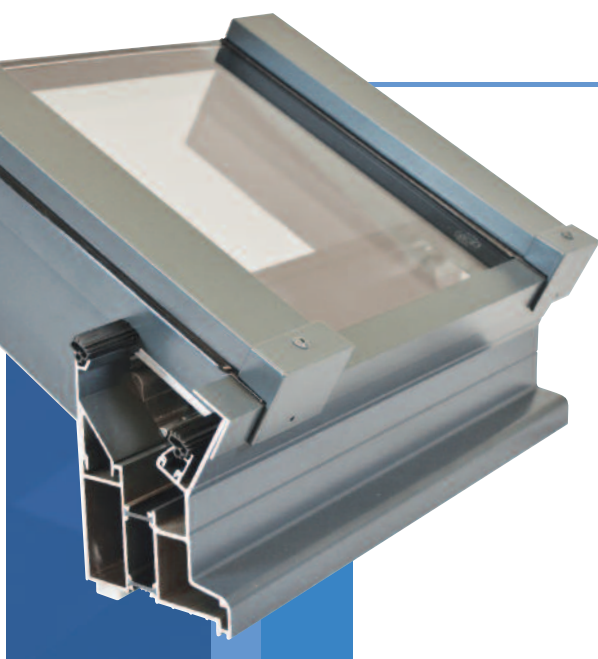
Our system innovation has allowed for us to create a 23% slimmer, light but still thermally efficient rooflight bar, that is a sleek 44 mm wide, and also to develop our flat rooflight range to incorporate the new Ultraline glass rafter system, pushing the boundaries of unbroken lines. Our manufacturing method means that every single rooflight has to be fully erected prior to dispatch, even if it ultimately requires dismantling for shipping and home

access issues. This means that all the holes are predrilled and together with our concise fitting guide, will speed up the installation time no end.

These roofs can be easily installed in an orangery, flat or pitched roof.

Our systems have proven track records with the backing of receiving independent accreditation from industry testing centres for weathertightness; a test to ensure that the rooflights are secure against air permeability, wind and snow loading, keeping the bad weather out.

They have also been tested for Document Q, PAS24 and are accredited with Secure by Design, the official UK Police flagship initiative combining the principles of 'designing out crime' with physical security, these show that under duress the systems were able to withstand the high security requirements needed to protect homeowners.



Key Features:

- Every rooflight made to your exact measurements
- The system has been independently tested for Weathertightness
- Current standard Document Q, PAS 24 (available as an upgrade on request) and now secured by design, all to ensure that you are as safe as you can be in your home
- British made at our West Midlands factory complex
- Independent Quality assurance BS EN ISO 9001:2015
- Bespoke design, tailored to your design and requirements to make it as individual as you are
- Cutting edge design
- Committed to innovation to ensure products are always performing to their best
- All our range can accommodate double or triple glazing
- All of our rooflights can accommodate our opening vents
- One of the most thermally efficient systems on the market
- Unique design that allows for an uncluttered seam to the glass with our eaves beam



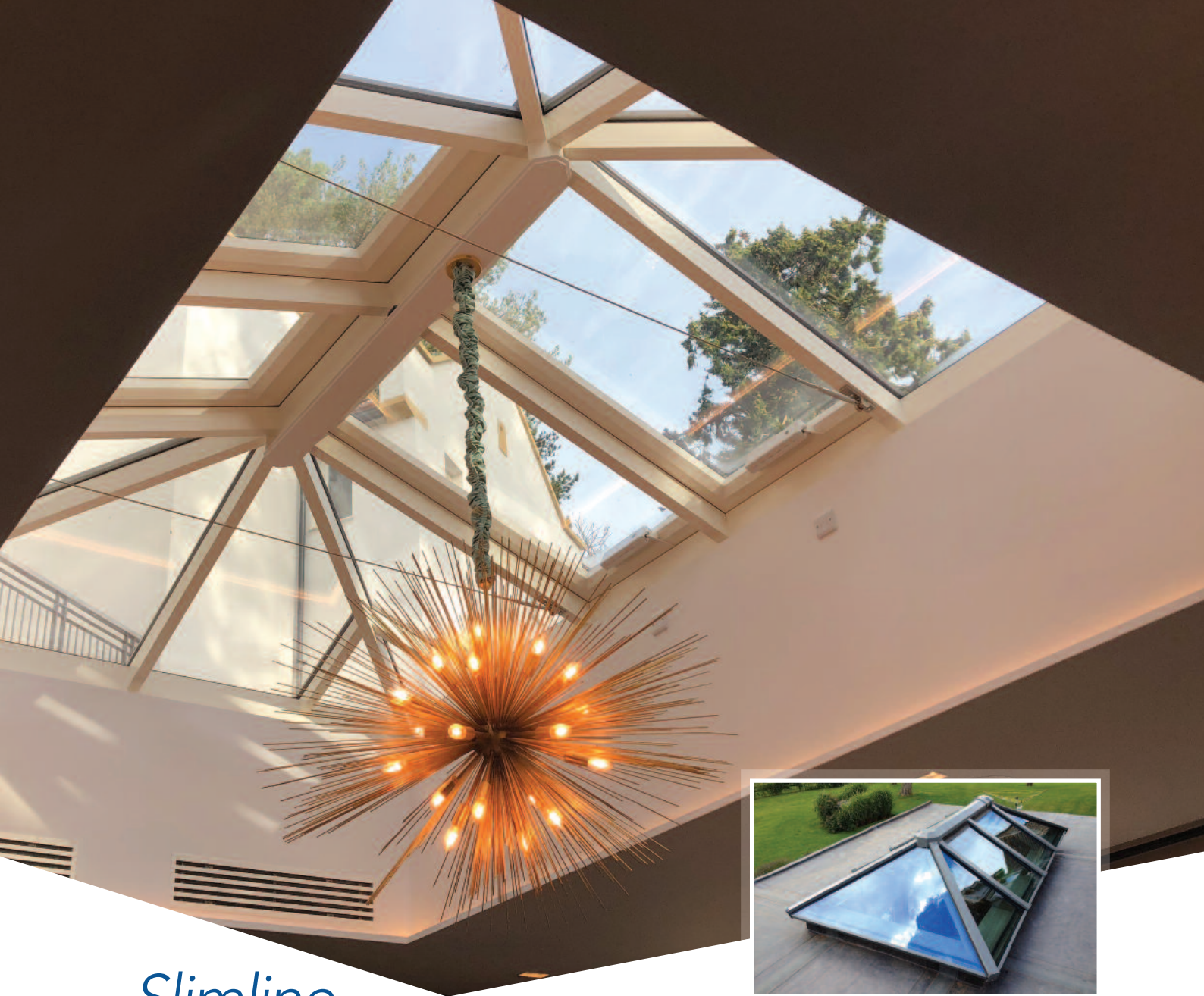
Double Hipped Rooflights

All our rooflights are made from, fully recyclable, environmentally friendly, aluminium and uses a bar system that is fully thermally broken, giving a superior thermal efficiency. They can be powder coated to any RAL colour range with a single or dual colour (internal/external different colours), allowing for low maintenance and stylish design.



Make **your design** unique

This can be achieved by selecting your choice of profiles, designs or size.



Slimline Double Hipped Rooflights

The slimline double hipped rooflight is a lighter system and uses a 23% slimmer glazing bar system than our standard 57 mm range. This allows even greater light to enter your room, whilst still giving a great thermal efficiency.

These rooflights have a 30 degree pitch as standard but can be tailored anywhere between 15 to 45 degrees.



New **Outer Hood Option** Available
For 30 Degree Pitched Slimline Double
Hipped Rooflights Only

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Pyramid Rooflights

Pyramid rooflights offer an alternative to our range with a 4 sided pyramid style that catches light from every angle throughout the day. This sleek modern design can incorporate ventilation, a whole spectrum of colourways from the standard RAL range, with an option of selecting a different internal colour at no extra cost, and a choice of glass specification.

A stunning blend of style and function, these feature skylights attract sunlight from every angle, all throughout the day. The rooflight is designed to stand the test of time, offers ultimate weatherproofing and structural strength. It can be double or triple glazed to give a best-in-class U-value as low as 0.6 W/m².





Gable Ended

The bold statement piece.

Faceted & Gable Ended Rooflights

Choosing your design is really down to your personal choice whether to fit in with your home, aesthetically blending in, or making a style statement.



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Lantern Rooflights

By adding vertical windows to any of our pitched rooflights, you can create a traditional heritage appearance. The upright sections allow for top hung opening lights to be situated within the windows.





Mono Pitched Rooflights

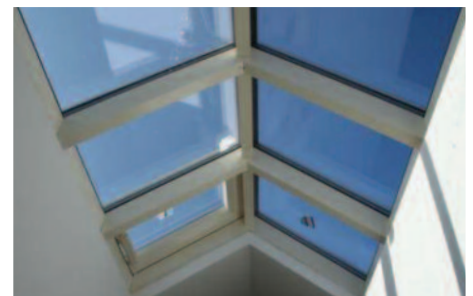
The mono rooflight has a proven to be very versatile within your pitched roof extension and can adapted to your exact specification and cope with existing pitches from 5 to 45 degrees and even tailoring the design to a 'cranked' bar option to work within your unique requirements.

They can incorporate electric or manual ventilation and all glass options or finishes, both solar and labour saving, to enable a modern and functional addition to your home.



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Double Pitched Rooflights

Our double pitched rooflight option is for homes that have the option of available roof area over a ridge, but does not end at an external wall. This offers a seamless look to the glazing and doubles the available light into any living space, creating a bright and airy room.

The rooflight can be inserted into existing roof pitches of between 5 to 45 degrees, as per our rooflight range and incorporated Bespoke Rooflights.





Bespoke Multi-Faceted Rooflights

Suitable for flat roof structures the amount of facets are really your choice, whether it be from 3 to 16, or more using our bespoke design service!

Made with thermally efficient aluminium sections and high quality glass in a choice of triple glazing in any available glass style or finish.

We also manufacture special trapezoidal roof vents especially for this and the popular pyramid and octagon rooflights.

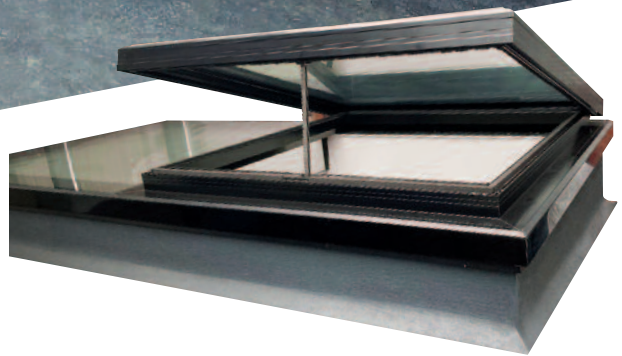


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Ultraline Flat Rooflights



The Ultraline glass rooflight systems is the most minimal glazing system available and has allowed for an innovative approach to design and product scope, with an invisible internal framework. To concept to allow uninterrupted sky from any angle, creating 'more of a view'.

The Ultraline flat roof system offers two choices of design, single or multi-pane. Both are sleek, modern and give a truly

contemporary frameless view from the inside, resulting in more natural light when compared to traditional rooflights.

They can be incorporated into both flat and pitched roofs and come in individual panel sizes up to 2400 mm x 1200 mm as standard, allowing a run of glazing to suit your bespoke specification. Larger panes are available, on application, but they will require additional loading calculations to be undertaken.

They are both available in double or triple glazed with the new enhanced technology can boast an impressive U value of up to 0.5 w/m²k. You also have the option of upgrading to walk on glass.





Ultraline Glass Rafter Rooflights

The Ultraline glass rooflight systems is the most minimal glazing system available and has allowed for an innovative approach to design and product scope, with an invisible internal framework. To concept to allow uninterrupted sky from any angle, creating 'more of a view'.



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Glass Options

Rooflights

Options available

- Lower u values to 0.6 wmk2
- Argon gas sealed units
- Double or triple glazed options
- Solar treated glass in a variety of colours such as clear, blue, bronze or neutral
- Self clean glass coating



Roof Vents

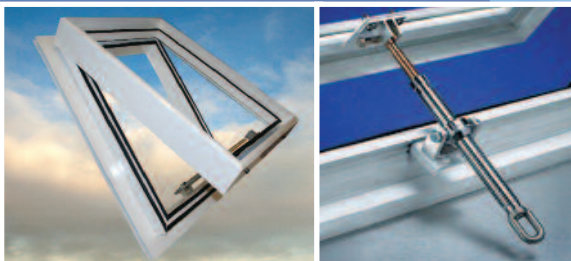
Rooflights

Roof vents are purpose made to suit the rooflight and can incorporate glass thicknesses from 6 mm to 50 mm, with 28 mm double glazing as standard. The vents can be powder coated to match and can be in any standard RAL of your choice.



Special trapezoidal roof vents can be supplied made especially for multi-faceted and pyramid rooflights. The extra bars eliminated to create a smoother, tighter design aesthetic.

There is a choice of opening mechanisms available to select from the following.



Manual worm gear for use with an operating pole



Electric motor which can be used with simple on/off switch



Or be controlled by a digital control unit that can operate multiple vents, in either 24 or 230 volt

An addition of **rain** or **smoke sensors** can also be incorporated to your design to suit your individual setting requirements.

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Rafter Bar Rooflights

Selecting aluminium as a choice for longevity and ease of aftercare does not mean that design choices have to be compromised. By selecting a rafter alternative, the bar can be used as a composite to a wooden beam to sit upon, giving an enhanced thermal performance and warmer all-natural internal feel to a home. It also is ideal for bespoke designs.



British Standards

We comply with the following standards:

BS EN 1999-1-1:2007+A2:2013

Eurocode 9: Design of aluminium structures. General structural rules.

BS EN 1999-1-3:2007+A1:2011

Eurocode 9: Design of aluminium structures. Structures susceptible to fatigue.

BS EN 1999-1-4:2007+A1:2011

Eurocode 9: Design of aluminium structures. Cold-formed structural sheeting.

BS EN 1999-1-1:2007+A2:2013

Eurocode 9: Design of aluminium structures. General structural rules.

BS 952-1:1995

Glass for glazing. Classification.

BS EN 755-9:2008

Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Profiles, tolerances on dimensions and form.

BS EN ISO 7599:2010

Anodizing of aluminium and its alloys. General specifications for anodic oxidation coatings on aluminium.

BS 5516-1:2004

Patent glazing and sloping glazing for buildings. Code of practice for design and installation of sloping and vertical patent glazing.

BS 5516-2:2004

Patent glazing and sloping glazing for buildings. Code of practice for sloping glazing.

BS 6206:1981

Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings.

BS EN 12150-1:2000

Glass in building. Thermally toughened soda lime silicate safety glass. Definition and description.

BS EN 12150-2:2004

Glass in building. Thermally toughened soda lime silicate safety glass. Evaluation of conformity/Product standard.

BS EN 12600:2002

Glass in building. Pendulum test. Impact test method and classification for flat glass.

BS 6262:1982

Code of practice for glazing for buildings.

BS 6262-1:2005

Glazing for buildings. General methodology for the selection of glazing.

BS 6262-2:2005

Glazing for buildings. Code of practice for energy, light and sound.

BS 6262-3:2005

Glazing for buildings. Code of practice for fire, security and wind loading.

BS 6262-4:2005

Glazing for buildings. Code of practice for safety related to human impact.

BS 6262-6:2005

Glazing for buildings. Code of practice for special applications.

BS 6262-7:2005

Glazing for buildings. Code of practice for the provision of information.

BS EN 12206-1:2004

Paints and varnishes. Coating of aluminium and aluminium alloys for architectural purposes. Coatings prepared from coating powder.

Notes





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