Designed to be elegant, durable, and bespoke.

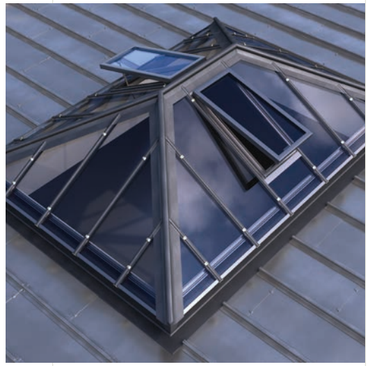
Standard
PATENT GLAZING
ESTABLISHED 1902

Skylight Glazing Systems

t. 01924 461 213
e. www.patent-glazing.com

Designed to be elegant, durable, and bespoke.

Designed to offer functionality and elegance



Skyline Box, Skyline, and Heritage Skylights

Our self-supporting Skyline Box, Skyline, and Heritage Skylights are designed to offer both functionality and elegance. Available in a variety of formats, including hipped, gable, and polygonal designs, these skylights provide an adaptable solution for a range of architectural needs. Additionally, they can be customised with optional glazed vertical upstand frames, creating a sophisticated 'Lantern' style skylight.

Unlike many modular skylights that are restricted to specific configurations, pitches and infill thicknesses, our Skylights offer complete flexibility in design.

Heritage Skylights – a timeless conservation solution

Our Heritage Skylights are the ideal choice for listed buildings and conservation projects. Designed in the Victorian era, these skylights blend historic aesthetics with modern engineering to preserve the charm and character of heritage properties. This allows them to seamlessly integrate with traditional architecture while maintaining the authenticity required for heritage and conservation projects.

Whether restoring a period property or enhancing a historic building, our Heritage Skylights provide an elegant and authentic glazing solution. Their classic detailing and high-quality craftsmanship make them the perfect complement to Victorian, Georgian, and Edwardian architectural styles.

Superior construction and flexibility

Each skylight incorporates structural aluminium ridge, hip, and cill members, ensuring durability and robustness. They are securely mounted onto a flat-topped structural upstand curb, which must be properly weathered and finished. The required curb width for installation is a minimum of 100mm to accommodate our cill member.

Our skylights are manufactured in 5° increments, ranging from a 15° to 45° pitch, catering to diverse architectural styles and preferences. Unlike modular skylights that come in fixed sizes and angles, our bespoke designs allow for complete freedom in size, pitch, and configuration. With widths ranging from 1500mm to 6000mm and unlimited length options, our skylights can be tailored to fit any project requirement.

Versatile glazing options

Designed for adaptability, our skylights are compatible with single, double, and triple-glazed applications. While typically supplied in a double-glazed format, they can also be provided in single and triple-glazed configurations to suit specific project demands. Their multiple pitch and configuration options make them one of the most versatile self-supporting systems available today.

t: 01924 461 213
e: www.patent-glazing.com

Designed to be durable

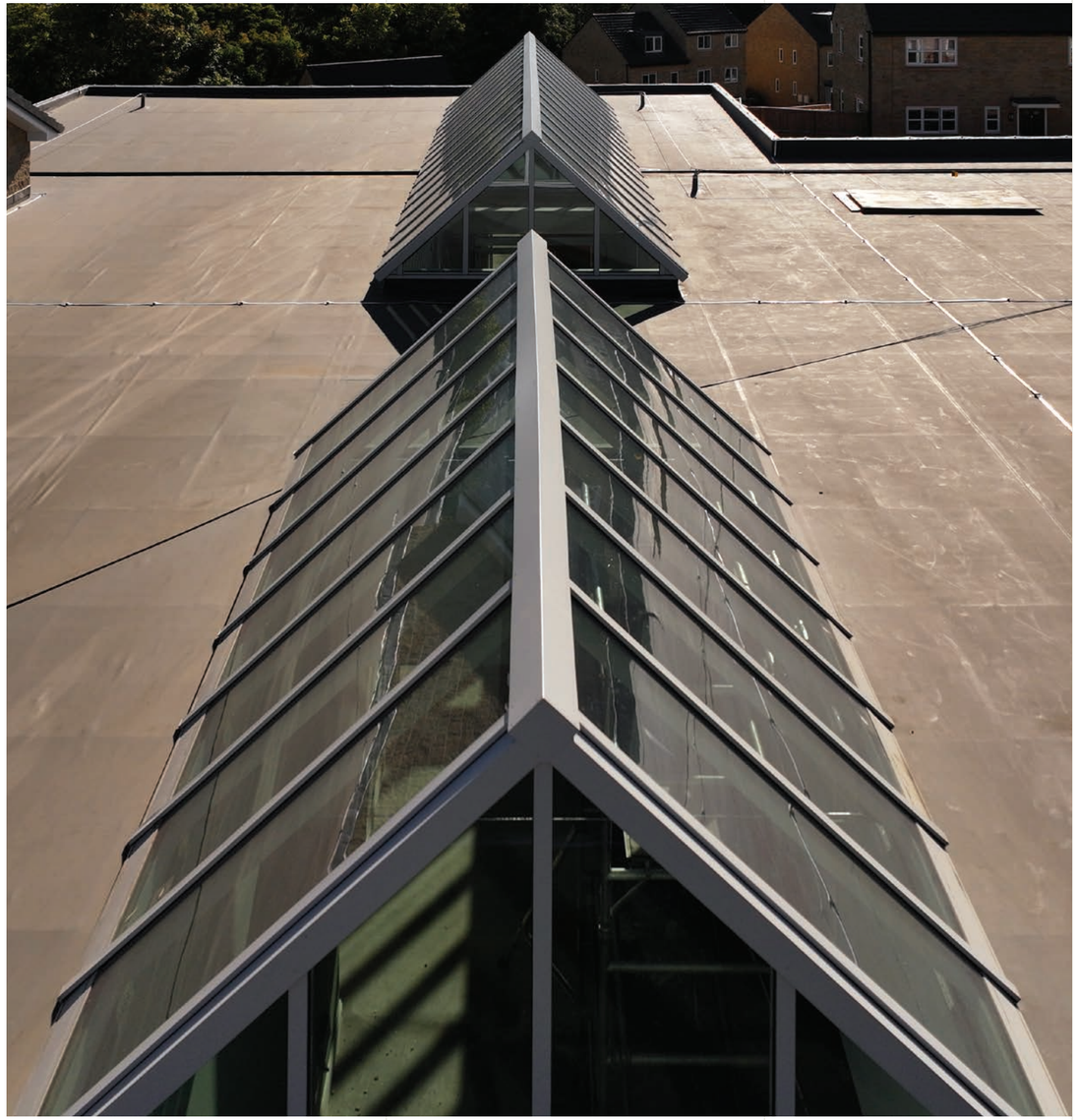
Structural considerations

To ensure stability and performance, the structural kerbs (provided by the main contractor) must be engineered to accommodate all lateral loadings imposed by the skylight. These loadings vary depending on pitch and span and should be calculated by a structural engineer.

In cases where kerbs lack sufficient strength to resist spreading—typically the standard scenario—our integral stainless steel tie wires must be installed at approximately 3-metre intervals along the ridge line. This measure prevents structural kerb movement and enhances overall stability.

A perfect fit for any project

Whether for residential, commercial, or heritage applications, our bespoke skylights provide a combination of strength, aesthetic appeal, and adaptability. Unlike most modular skylights on the market, which are limited in design flexibility, our bespoke solutions offer complete design freedom. Engineered to meet the demands of modern and historic architecture alike, our skylights are a reliable choice for projects requiring high-performance, self-supporting glazing solutions.



t: 01924 461 213
e: www.patent-glazing.com

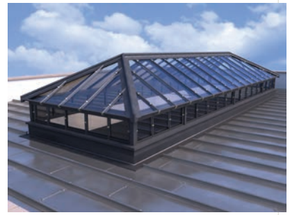
Engineered to be durable and bespoke

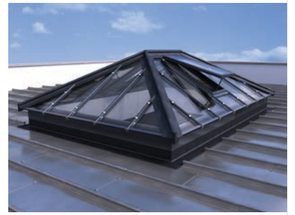
Our self supporting Skylights and lanterns are designed with exceptional versatility, accommodating a wide range of configurations for single, double, and triple glazing applications. Our skylights are manufactured in 5° increments, ranging from a 15° to 45° pitch, catering to diverse architectural styles and preferences, allowing for complete freedom in size, pitch, and configuration. With widths ranging from 1500mm to 6000mm and unlimited length options, our skylights can be tailored to fit any project requirement.

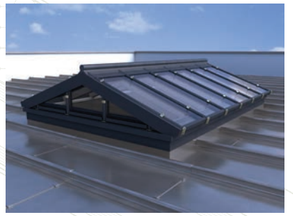
Whether for residential or commercial projects, the system's adaptability ensures it meets diverse architectural requirements. The possibilities are endless, making our bespoke skylights and lanterns the perfect solution for innovative and functional glazing designs.

Here are some of the configurations we offer:


Skyline Box HSK

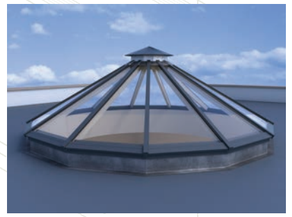

Heritage Lantern

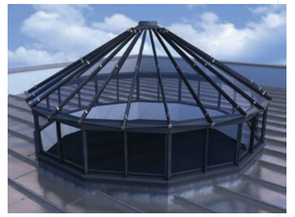

Heritage HSK

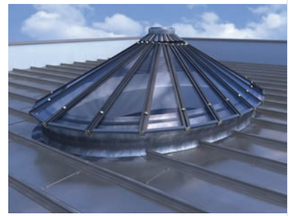

Heritage GSK


Skyline Box Gable


Skylight Box Lantern


Skyline Box Polygonal


Heritage Polygonal


Heritage Elliptical

t: 01924 461 213
e: www.patent-glazing.com

Adaptable and elegant

Our self-supporting Skyline Box, Skyline, and Heritage Skylights are designed to offer both functionality and elegance. Available in a variety of formats, including hipped, gable, and polygonal designs, these skylights provide an adaptable solution for a range of architectural needs. Additionally, they can be customised with optional glazed vertical upstand frames, creating a sophisticated 'Lantern' style skylight.

Unlike many modular skylights that are restricted to specific configurations, pitches, and infill thicknesses, our Skylights offer complete flexibility in design.

Advantages of our Skylight systems

Heritage Skylights
A timeless conservation solution

- Ideal for listed buildings and conservation projects.
- Suitable for accepting opening vents.
- Blends historic aesthetics with modern engineering.
- Preserves charm and character while ensuring compliance with heritage requirements.
- Seamlessly integrates with Victorian, Georgian, and Edwardian architectural styles.
- Custom-crafted to maintain authenticity in restoration and conservation projects.
- Can conform to building regulations if vacuum glass (VG) is integrated.
- Bespoke pitch options from 15° to 45° in 5° increments.
- Fully tested to BS 5516 for sloped glazing.
- Meets CWCT TN66 & TN67 requirements for non-fragility, ensuring enhanced safety.
- Can comply with Building Regulations Part L when incorporating vacuum glass (VG) for superior thermal efficiency.
- Tested to BS 6375-1 for weather performance, ensuring durability and resistance to environmental conditions.

Skyline Box and Skyline Skylights
Robust and sleek

- Large spans possible.
- Concealed capping fixings.
- 'L' Reg compliant.
- Thermally broken.
- Suitable for accepting opening vents.
- Single, double or triple glazed options.
- Bespoke pitch options from 15° to 45° in 5° increment.

Technical drawings

The following pages showcases CGI render of our Heritage and Skyline Box Glazing Systems in lantern formats with double glazing.

It highlights both the external and internal aesthetics. This visualisation provides a clear representation of the system's structural integration and performance.

For additional 2D, 3D & NBS H10 Specification assets, visit our download centre.

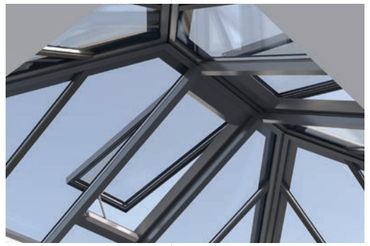
t: 01924 461 213
e: www.patent-glazing.com

Heritage HSK

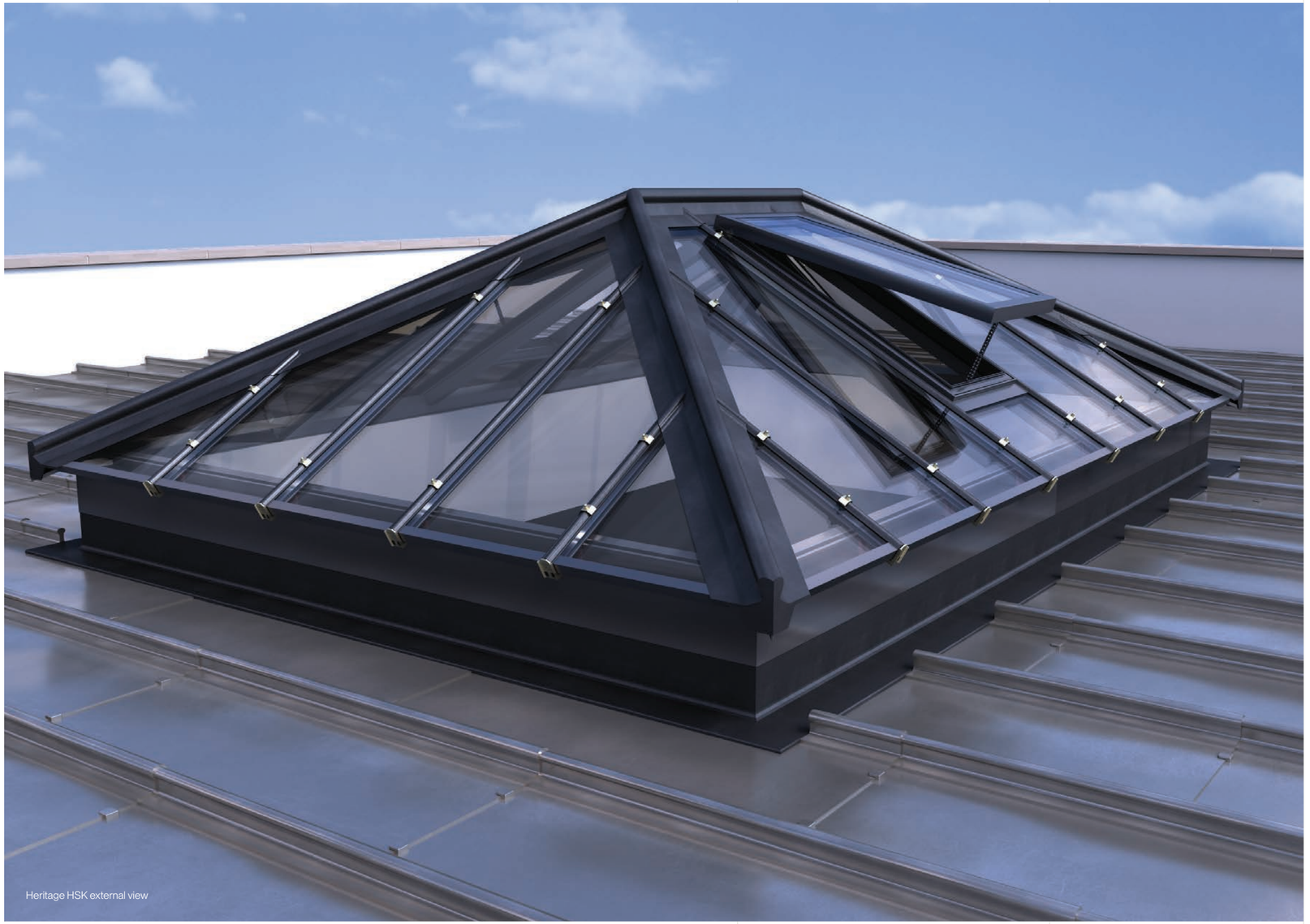
Proprietary Heritage lantern incorporating our Heritage No.7 DG lead clothed glazing bars.

This Heritage range can accommodate glazed infills from 6mm to 30mm.

Heritage HSK interior view



Heritage HSK aerial view



Heritage HSK external view

t: 01924 461 213
e: www.patent-glazing.com

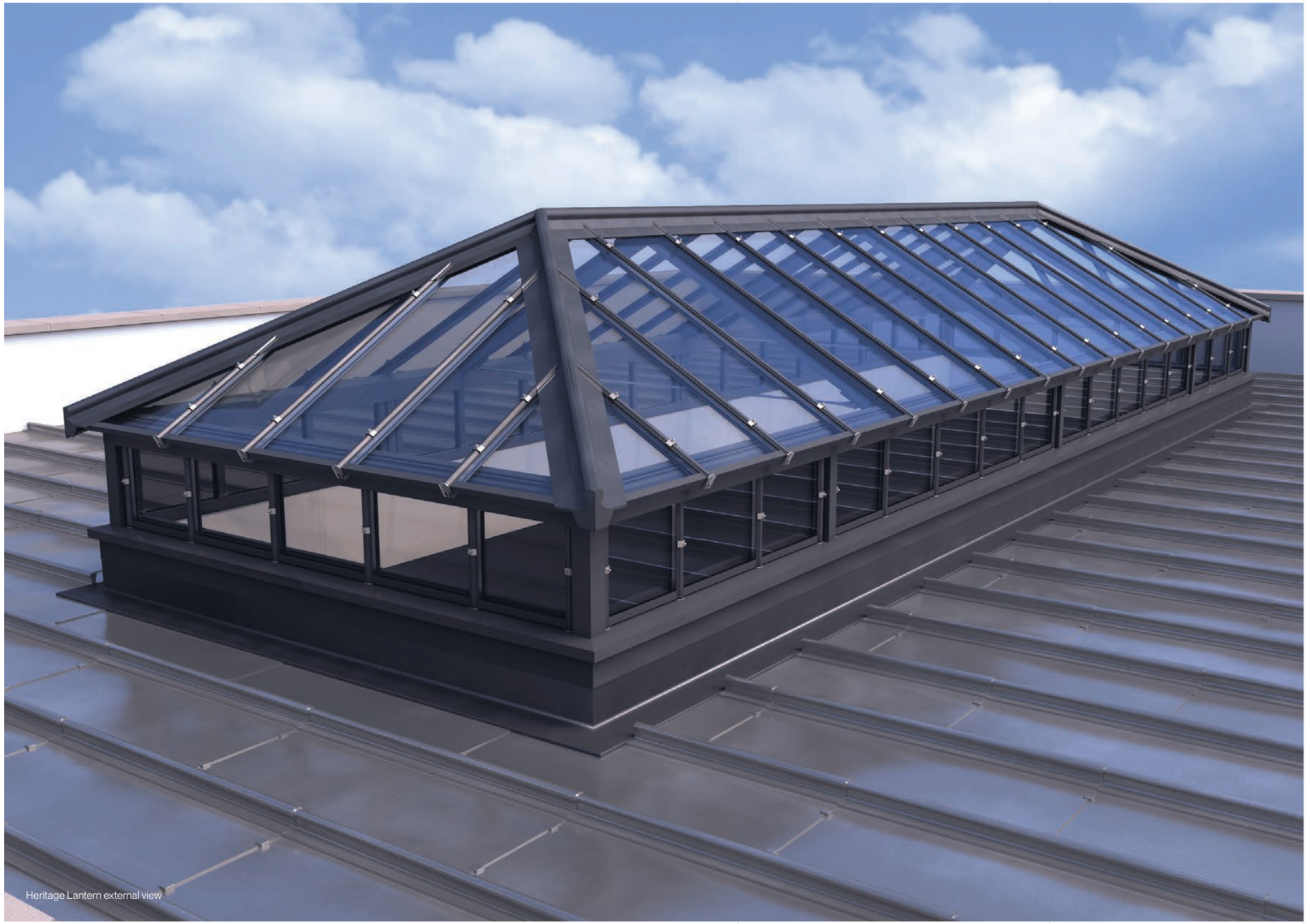
Heritage Lantern

Proprietary Heritage lantern incorporating our Heritage No.7 DG lead clothed glazing bars.

This Heritage range can accommodate glazed infills from 6mm to 30mm.

Heritage Lantern interior view

Heritage Lantern aerial view



Heritage Lantern external view

t: 01924 461 213
e: www.patent-glazing.com

Designed to be versatile

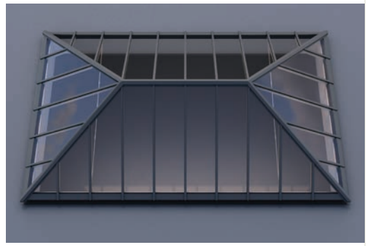
Skylight Box HSK

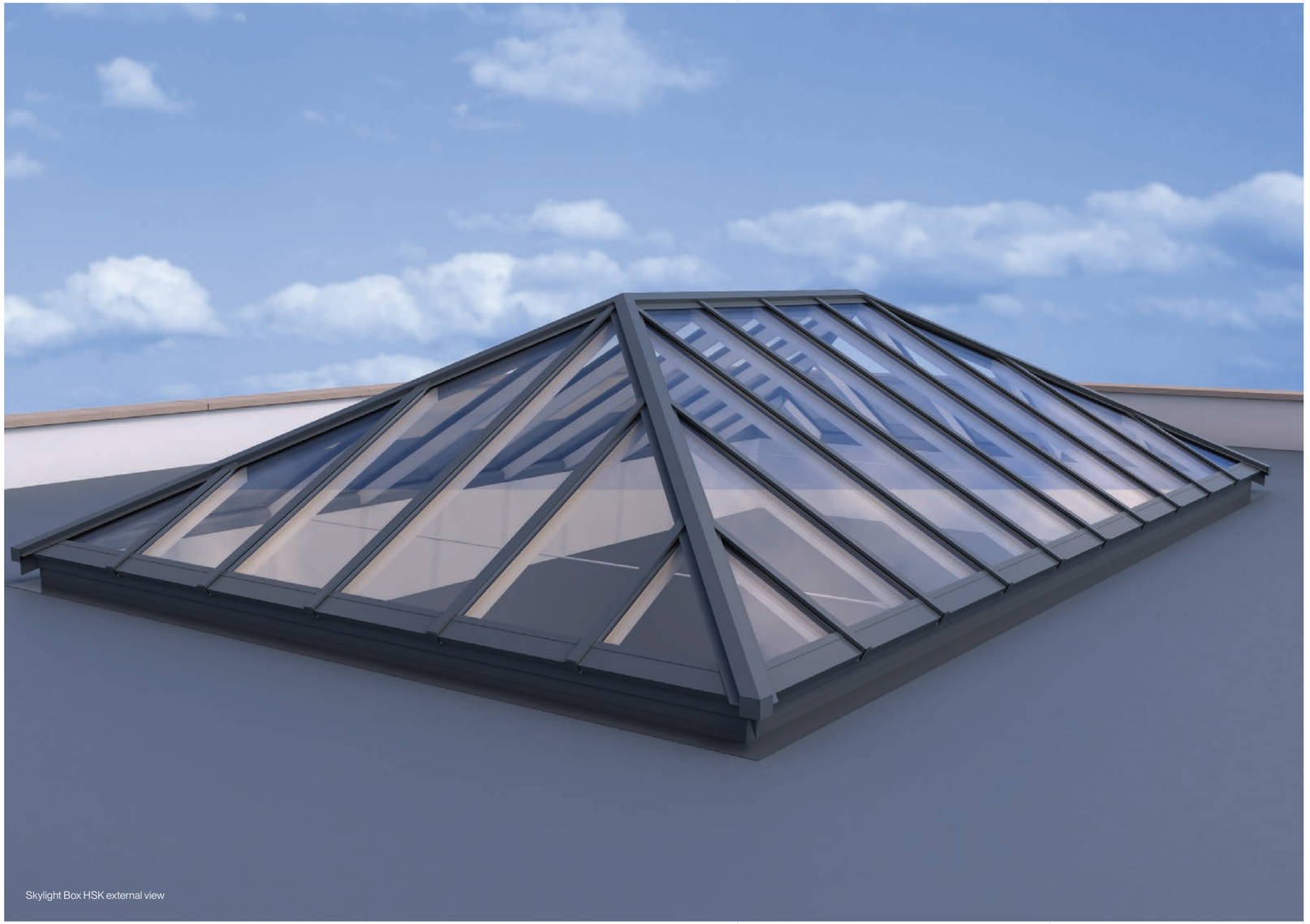
Proprietary lantern Skylight incorporating our thermally broken Skyline Box SPG 5 type polyester powder coated aluminium glazing bar with PC2 cosmetic capping—double glazed.

This Skyline Box range can accommodate glazed infills from 6mm to 54mm.

Skyline Box HSK interior view

Skyline Box HSK aerial view





Skylight Box HSK external view

t: 01924 461 213
e: www.patent-glazing.com

Designed to be versatile

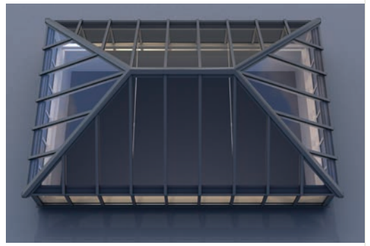
Skylight Box Lantern

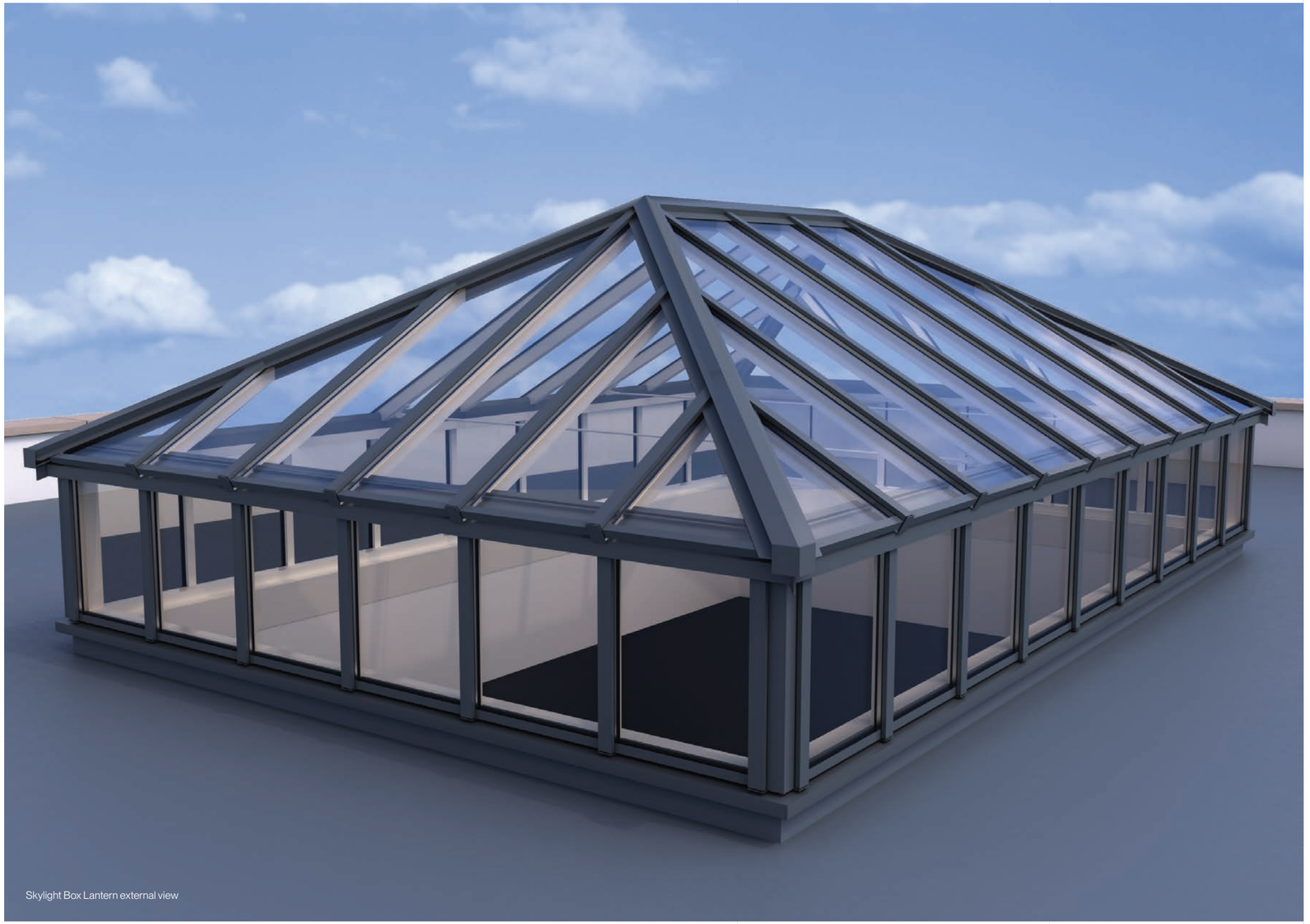
Proprietary lantern Skylight incorporating our thermally broken Skyline Box SPG 5 type polyester powder coated aluminium glazing bar with PC2 cosmetic capping—double glazed.

This Skyline Box range can accommodate glazed infills from 6mm to 54mm.

Skylight Box Lantern interior view

Skylight Box Lantern aerial view





Skylight Box Lantern external view

t: 01924 461 213
e: www.patent-glazing.com

Designed to be versatile

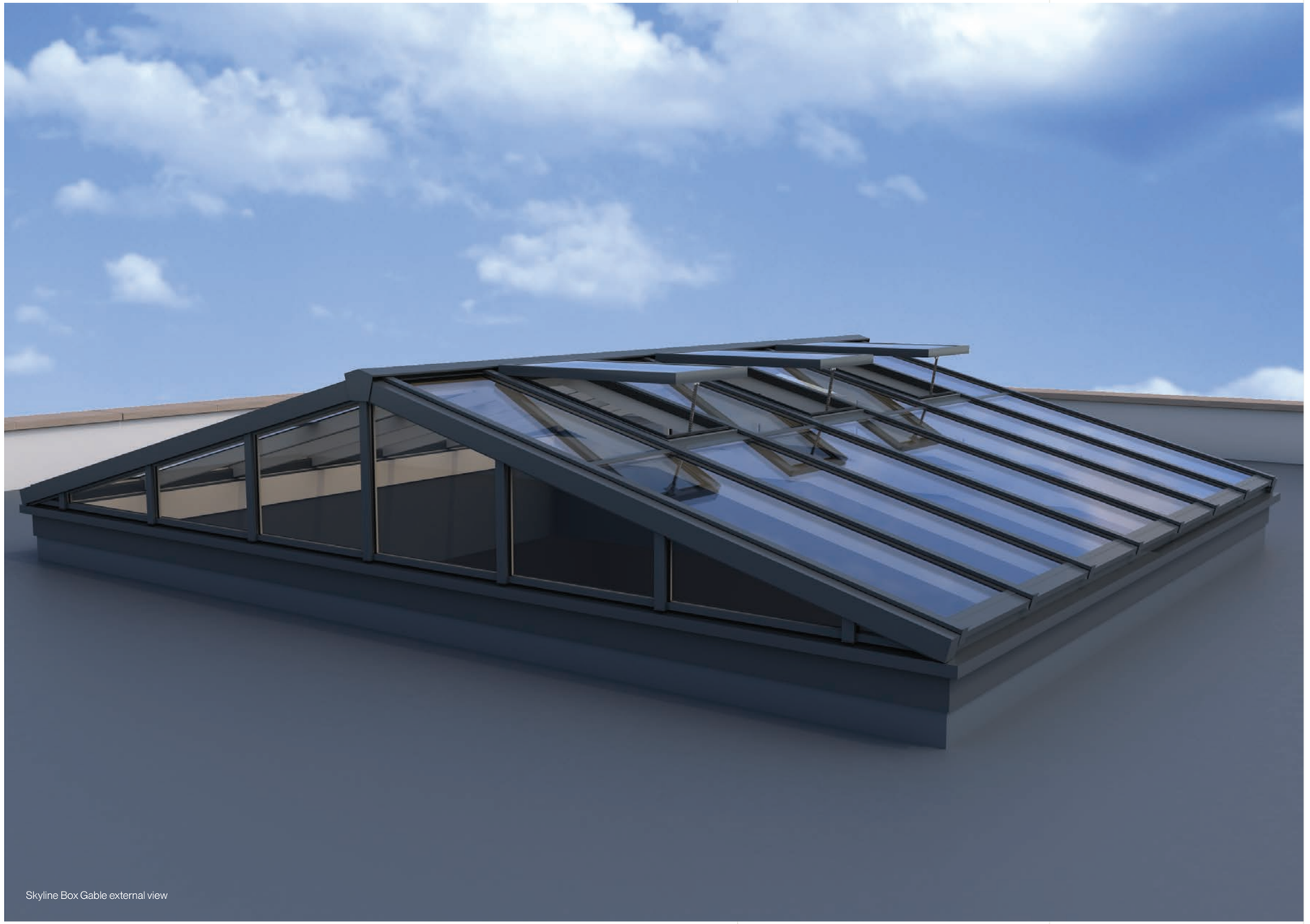
Skyline Box Gable

Proprietary gable Skylight incorporating our thermally broken Skyline Box SPG 7 type polyester powder coated aluminium glazing bar with PC2 cosmetic capping—double glazed.

This Skyline Box range can accommodate glazed infills from 6mm to 54mm.

Skyline Box Gable interior view

Skyline Box Gable aerial view



Skyline Box Gable external view

t: 01924 461 213
e: www.patent-glazing.com

Designed to be versatile

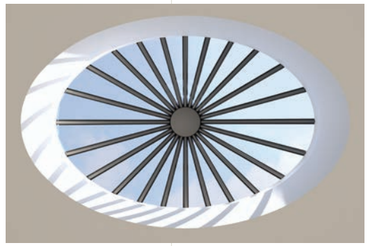
Heritage Elliptical

Proprietary Heritage elliptical Skylight incorporating our Heritage No.7 SG lead clothed glazing bars.

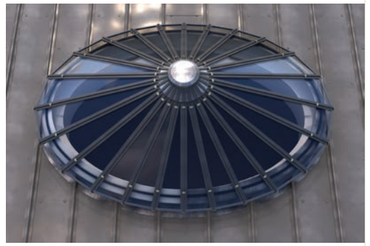
This Heritage range can accommodate glazed infills from 6mm to 30mm.

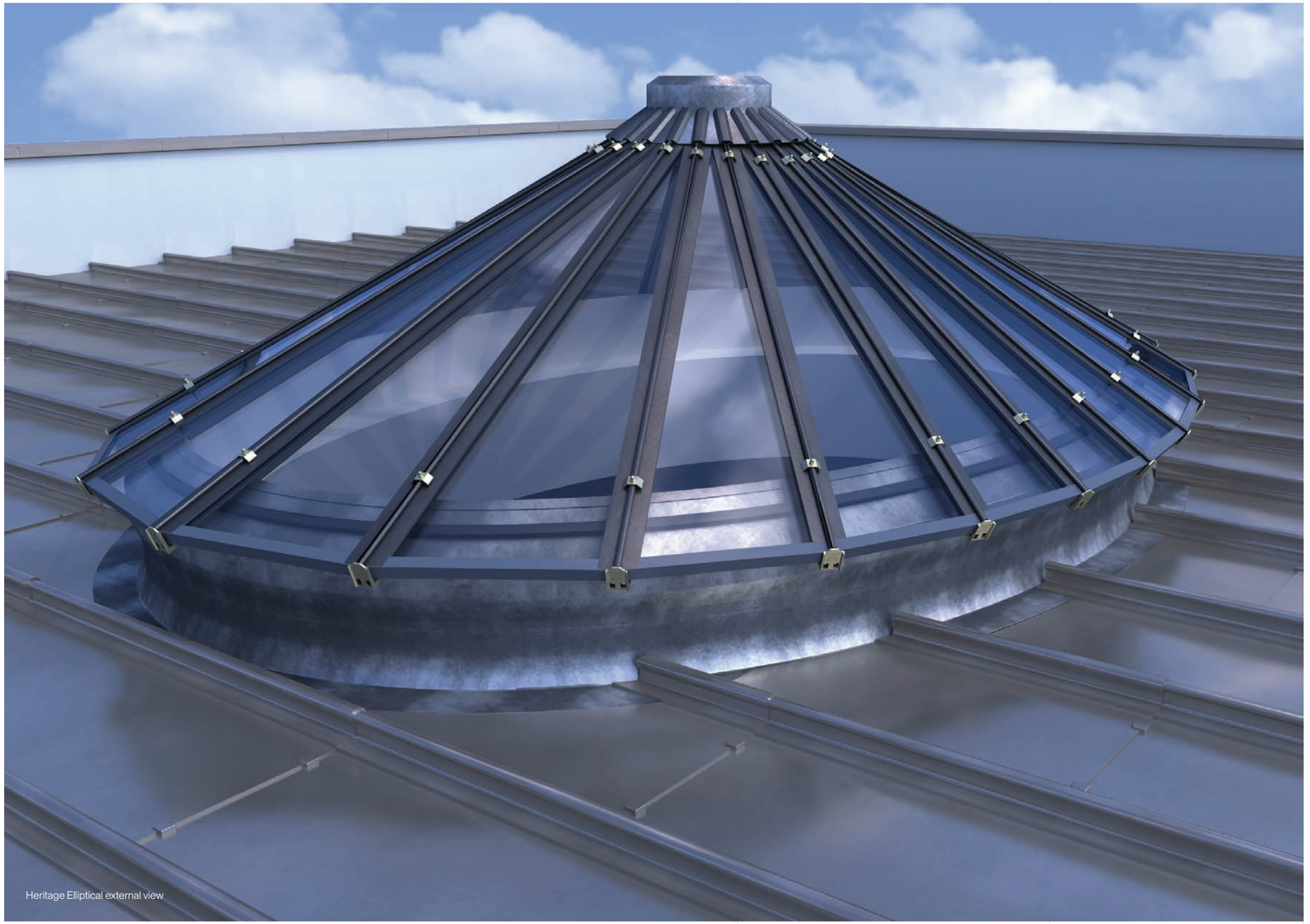
Please note
The elliptical configuration is only available in the Heritage range due to the complex geometry

Heritage Elliptical interior view



Heritage Elliptical aerial view





Heritage Elliptical external view

t: 01924 461 213
e: www.patent-glazing.com

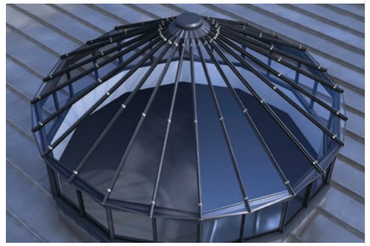
Heritage Polygonal

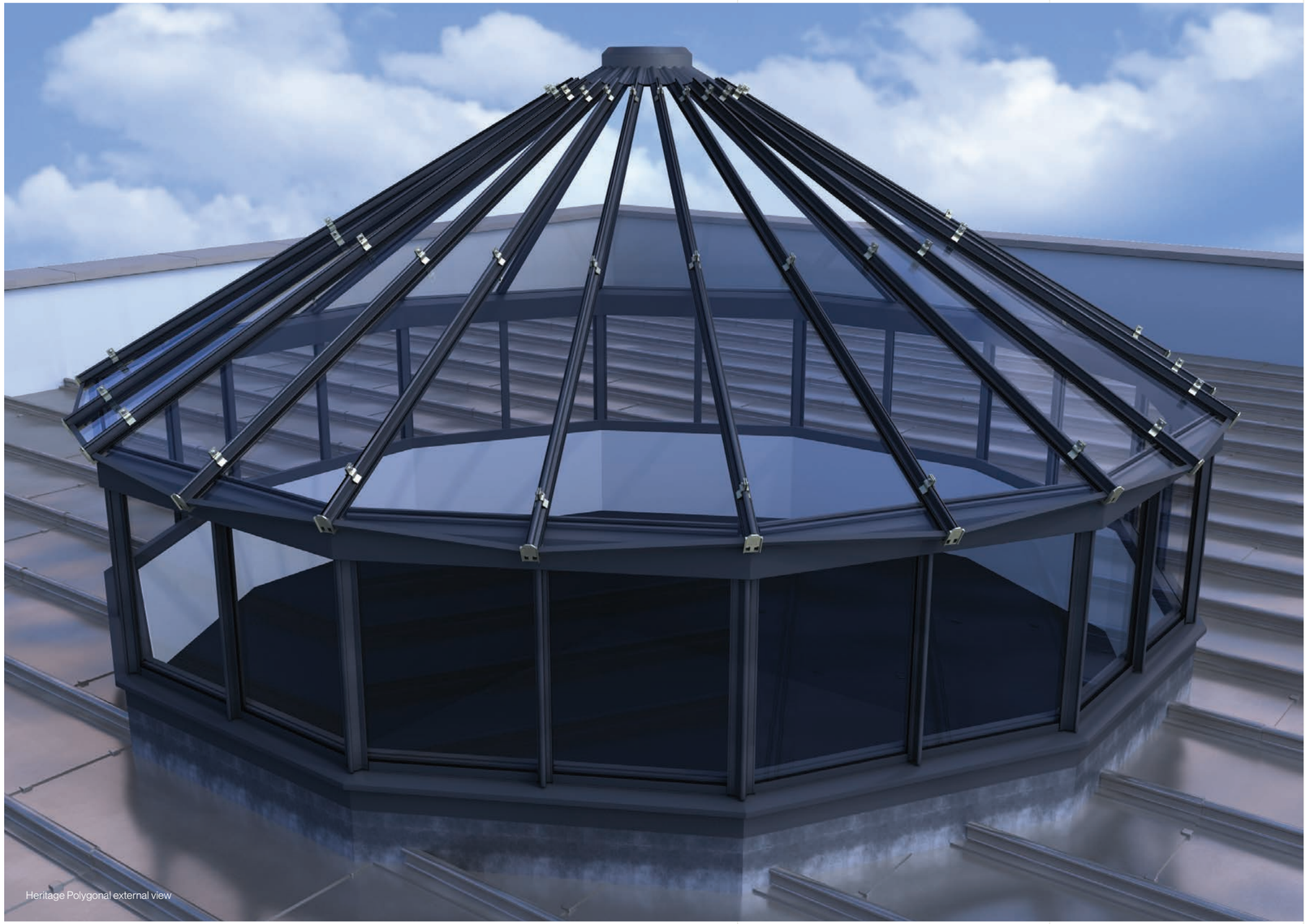
Proprietary polygonal Skylight incorporating our thermally broken Skyline Box SPG 5 type polyester powder coated aluminium glazing bar with PC2 cosmetic capping—double glazed.

This Skyline Box range can accommodate glazed infills from 6mm to 54mm.

Heritage Polygonal interior view

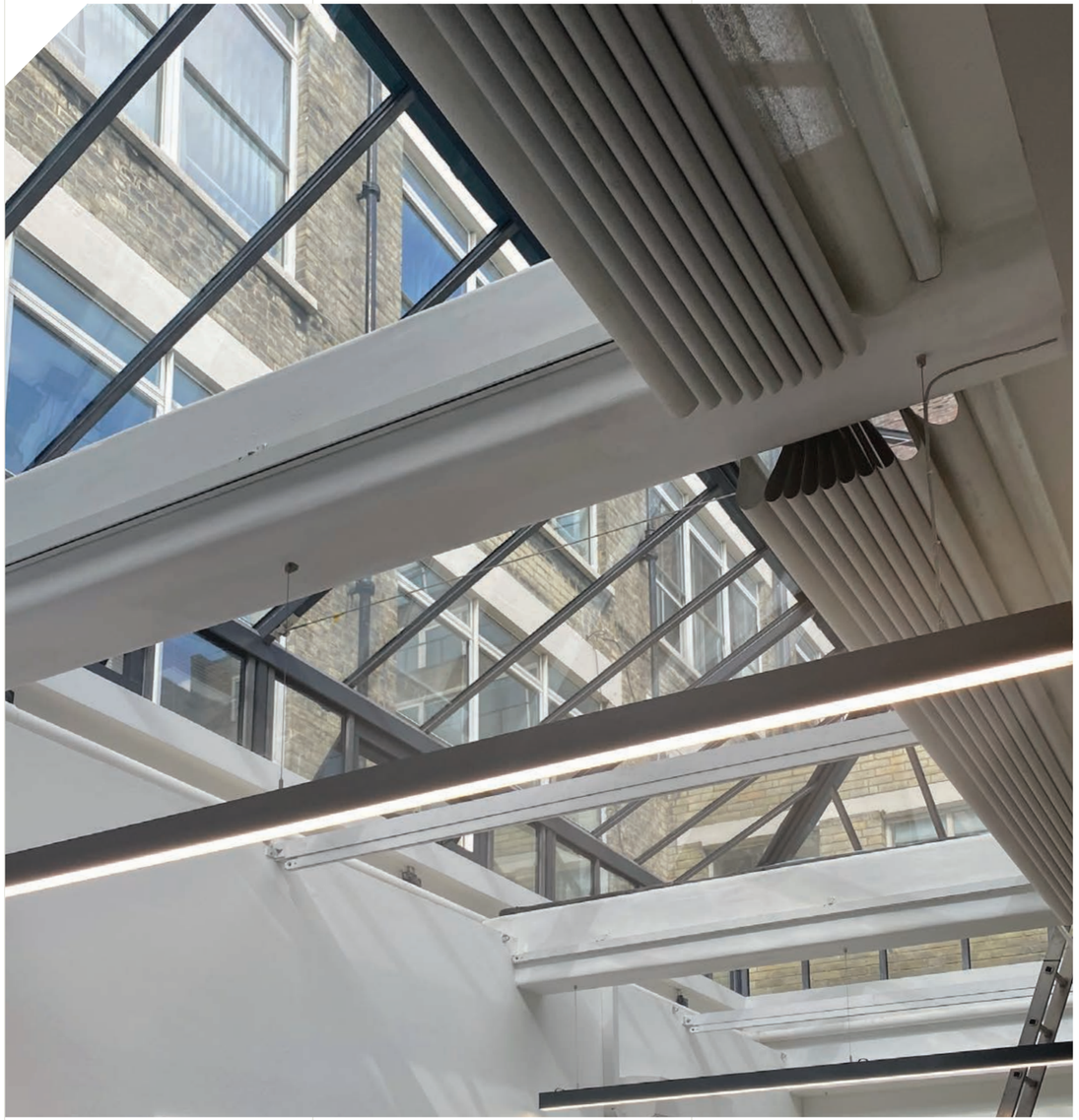
Heritage Polygonal aerial view





Heritage Polygonal external view

t: 01924 461 213
e: www.patent-glazing.com



A guide to glass

Our glazing systems incorporate advanced glass technologies designed for safety, energy efficiency, and aesthetic appeal.

- **Safety and structural integrity**
  All systems use approved safety glass or polycarbonate infill. For double and triple glazed units, toughened outer panes paired with laminated inner panes prevent dangerous breakages.
- **Solar control**
  Solar control glasses effectively reduce heat gain through roof glazing, enhancing comfort and energy performance.
- **Translucent glass**
  This option maximises natural light while obscuring vision for privacy. Our Diffussa laminated glass—with a white, translucent PVB interlayer—also minimises glare.
- **Self-cleaning options**
  Invented by Pilkington, self-cleaning glass is ideal for hard-to-reach areas. Both hard coat and soft coat variants are available, ensuring low maintenance over time.
- **Patterned and textured glass**
  Textured glass features an embossed design that decorates while allowing light diffusion and controlled obscuration.
- **Wired glass alternatives**
  Ideal for conservation projects

  Georgian Wired glass, commonly known as Pyroshield glass, is available in a textured finish for added obscurity, however this glass no longer meets the safety classification requirements of BS EN 12600. For conservation projects, seeking a similar aesthetic with enhanced safety, there are several alternative glass types that replicate the appearance of Georgian Wired while providing a safety classification in accordance with BS EN 12600.

  This is achieved through advanced techniques such as digitally printing on heat-treated glass or incorporating printed PVB or SGP interlayers in laminated glass. This method not only replicates the classic wired design but also significantly improves safety, ensuring a non-fragile assembly in compliance with CWCT TN66 & 67 when used in our glazing systems.
- **Vacuum sealed units**
  Ideal for conservation projects

  Vacuum glazing (VG) delivers exceptional thermal insulation with ultra-thin, lightweight panels. Achieving centre pane U-values as low as 0.4W/m²K (and G values down to 0.32 with solar control), it's ideal for conservation projects and energy-efficient applications.

Safety standards compliance

Our patent glazing systems meet stringent non-fragility standards (ACR[M]001:2014 and CWCT TN67), underlining our commitment to public safety.

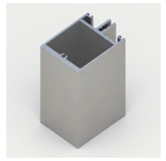
Stay informed

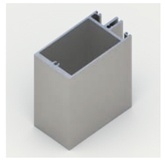
As glass technology continues to evolve, please scan the QR code for the most current product information.

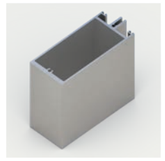
t: 01924 461 213
e: www.patent-glazing.com

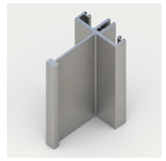
Component list

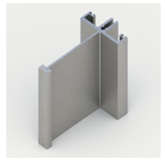
Glazing bars

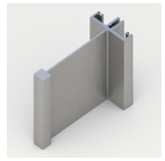

SPG5A


SPG7A

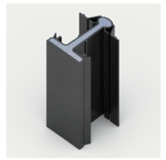

SPG10A

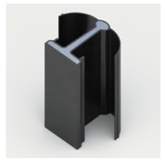

SPG2


SPG3

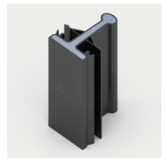

SPG4

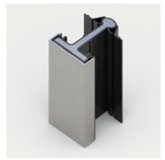
Cappings


Double No 7


Ridge Hip No 7 Double

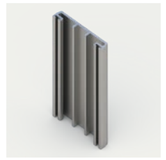

Ridge Hip No 7 Single


Single No 7

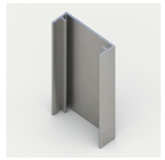

Double No 7
(with LC internal cover)


Single No 7
(with LC internal cover)

Cappings

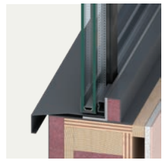

PC1


PC5


PC2

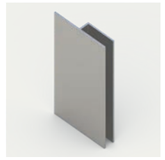
Cill and eaves heritage

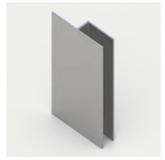

Skylight Lantern Upstand
(Lead) Upper 02


Skylight Lantern Upstand
(Lead) Lower 02

Glass abutment joints


JS2


JS3

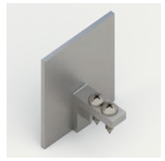

JS4

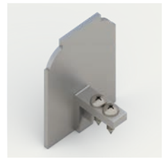
Gaskets

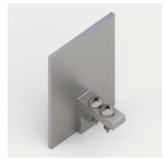

AB635 B


AE065 B

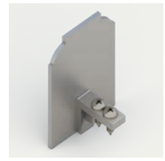
End stops and fixing plates

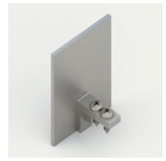

CS3

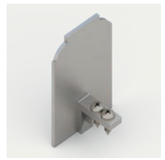

CS4


CS5


FP1


CS6

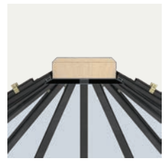

CS7


CS8


PAT 103 MK7

Ridge and apex drum heritage


Skylight Ridge (Lead) 02


Skylight Apex Drum (Lead)

Cill and eaves aluminium

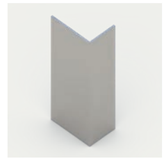

Skylight Lantern Upstand
(Aluminium) Lower 02

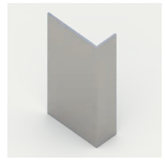

Skylight Lantern Upstand
(Aluminium) Upper 02

Glass edge protectors


GEP1


GEP3


GEP4


GEP5

Storm clips


DG NO 7 PAT 123


SG NO 7 PAT 124

Weather bars

WB1

WB3

WB4

Thermal breaks

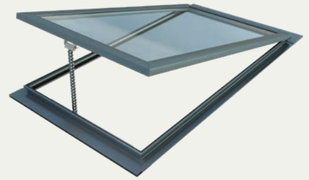
TB33 B

TB23 V3 B

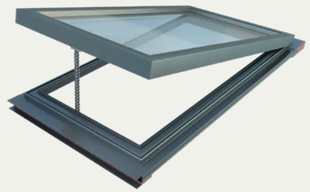
Skylight Ridge (Aluminium) 02

t: 01924 461 213
e: www.patent-glazing.com

Opening ventilators



Single glazed opening vent

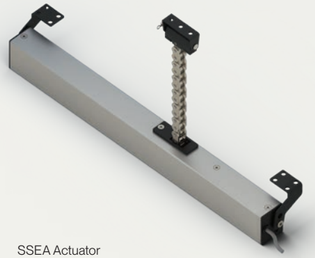


Double & triple glazed opening

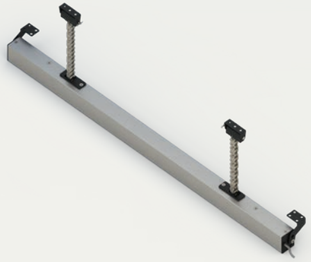
Gearing

Screwjack

SPG45



SSEA Actuator



SSEA Double Actuator

Protective finishes

The most popular way to protect our aluminium sections from oxidisation and create an appealing aesthetic look is to apply a polyester powder coated finish.

This is a high quality finish and will perform admirably for decades as long as a regular cleaning schedule is maintained.

All of our aluminium glazing systems are coated after full manufacture and our prices include your choice of one colour from the array of standard colours available in the table shown here.

If you require a different colour, we can source it at an additional cost, including special finishes such as metallic and pearlescent textures.

Dual colour projects

We are able to offer most of our glazing systems in a dual colour format. Domestic customers regularly desire a white or other light colour internally to blend in with the internal decoration of the room whereas a darker colour, usually one of the many grey shades or black is chosen for the external colour finish. Dual colour specifications carry an administration charge.

Other protective finishes

Anodising also a popular solution and is available upon request. Anodising enhances aluminium's natural properties, making it very durable, corrosion-resistant, and aesthetically appealing.

Glazing module sizes

Key

- Readily available
- Mechanical lifting equipment required
- Span Restrictions
- ▶ Over 3150 joint or break detail required

Our standard colours

9005	Jet black
9010	Pure white

Our popular colours

7015	Slate grey

1001	Beige
1013	Oyster white
1014	Ivory
1015	Light ivory
1018	Zinc yellow
1019	Grey beige

3003	Ruby red
3004	Purple red
3005	Wine red
3009	Oxide red
5000	Violet blue
5002	Ultramarine blue

5003	Sapphire blue
5004	Black blue
5008	Grey blue
5010	Gentian blue
5011	Steel blue
5012	Light blue

5013	Cobalt blue
5014	Pigeon blue
5015	Sky blue
5017	Traffic blue
6002	Leaf green
6005	Moss green

6006	Grey olive
6009	Fir green
6016	Turquoise green
6018	Yellow green
6019	Pastel green
6027	Light green

7001	Silver grey
7004	Signal grey
7005	Mouse grey
7011	Iron grey
7012	Basalt grey
7015	Slate grey

7016	Anthracite grey
7021	Black grey
7022	Umbra grey
7024	Graphite grey
7030	Stone grey
7031	Blue grey

7032	Pebble grey
7035	Light grey
7037	Dusty grey
7038	Agate grey
7040	Window grey
7042	Traffic grey A

7043	Traffic grey B
7044	Silk grey
8011	Nut brown
8014	Sepia brown
8015	Chestnut brown
8017	Chocolate brown

8019	Grey brown
9001	Cream
9002	Grey white
9005	Jet black
9010	Pure white
9016	Traffic white

mm	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1050	1200	1250
1000																	
1250																	
1500																	
1750																	
2000																	
2250																	
2500																	
2750																	
3000																	
3150																	

t: 01924 461 213
e: www.patent-glazing.com

Exceptional performance for years to come

We take our responsibility to adhere to the highest regulatory and quality standards seriously. Our commitment to British Standards and industry regulations ensures that every project we undertake is safe, compliant, and built to last.

For over a century, we have been at the forefront of setting and maintaining these standards within the patent glazing industry, helping to shape the future of roofing and glazing practices across the UK.

Our systems, from design to installation, meet or exceed the requirements set forth in British Standard BS 5516, which governs the design and installation of sloping and vertical patent glazing.

This standard addresses key areas such as structural integrity, weatherproofing, safety, and thermal performance.

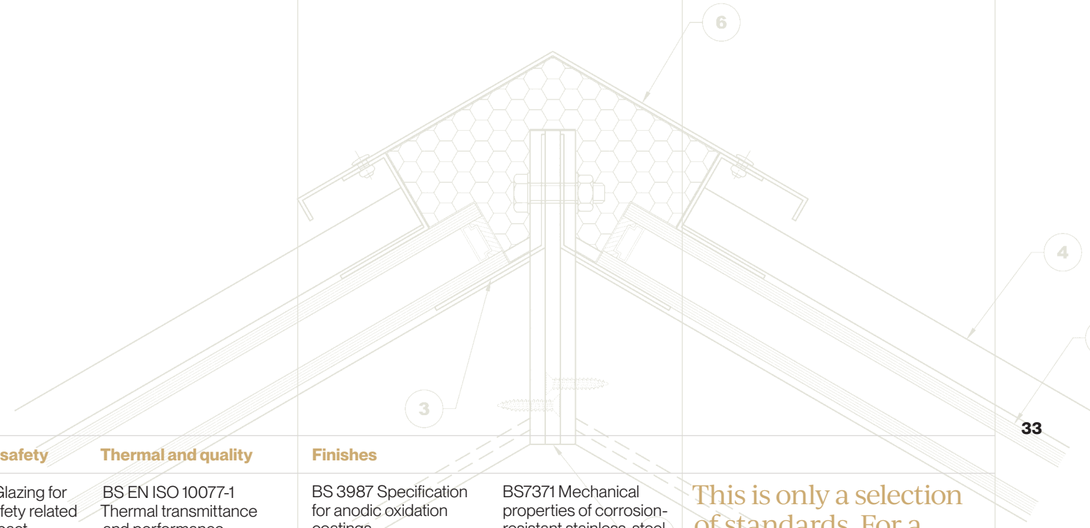
By adhering to these rigorous guidelines, we ensure that our glazing systems not only provide outstanding aesthetic and functional value but also offer long-term durability and compliance with all relevant building regulations.

BS 5516: Leading the way in patent glazing standards

The BS 5516 British Standard for patent glazing is an integral part of our design and manufacturing processes.

This code of practice outlines critical requirements for ensuring that sloping and vertical patent glazing systems can withstand the environmental and structural demands of modern buildings.

Our team of experts has been closely involved in the development and continuous improvement of these standards, demonstrating our commitment to quality, innovation, and safety.



Design and safety

BS 6262-4 Glazing for buildings. Safety related to human impact.

BS EN 1991-1 Loading for buildings. Code of practice for dead and imposed loads.

BS EN 1991-1-4 Loading for buildings. Code of practice for wind loads.

BS EN 1999-1 Structural use of aluminium. Code of practice for design.

BS EN 12056-3 Gravity drainage systems inside buildings, roof drainage, layout and calculation.

BS EN 14024 Metal profiles with Thermal Barriers. Mechanical Performance, proof, tests and requirements.

Thermal and quality

BS EN ISO 10077-1 Thermal transmittance and performance calculation of windows, doors and shutters, part 1.

BS EN ISO 10077-2 Thermal transmittance and performance calculation of windows, doors and shutters, part 2.

BS EN ISO 12567-1 Determination of thermal transmittance using hot box method, Part 1.

BS 8000-0 Workmanship on building sites. Code of practice for glazing.

BS EN ISO 9001 Quality management systems – Requirements.

Finishes

BS 3987 Specification for anodic oxidation coatings.

BS 4842 Specification for liquid organic coatings.

BS 6496 Specification for powder organic coatings.

BS EN 12206-1 Paints and Varnishes.

BS EN 12373-2 Aluminium and aluminium alloys

BS EN 1774 Zinc and zinc alloys.

BS EN 10268 Cold-rolled flat products.

BS EN 12844 Zinc and zinc alloys.

BS7371 Mechanical properties of corrosion-resistant stainless-steel fasteners.

BS 3382 (various) Specification for electroplated coatings.

BS 6338 Specification for chromate conversion coatings.

BS EN ISO 1461 Hot dip galvanized coatings.

PD 6484 Commentary on corrosion.

This is only a selection of standards. For a fully comprehensive list of the British Standards and BS EN standards that our glazing systems comply with, please visit our website.

t: 01924 461 213
e: www.patent-glazing.com

Maintaining exceptional quality

Committed to excellence

We continuously improve our processes and embrace the latest technologies to ensure our glazing solutions are innovative and dependable. By completing every task with precision and care, we deliver defect-free products that perform perfectly from the start.

Our client's satisfaction is our priority. Our dedicated team works closely with customers and specifiers to provide solutions tailored to your specific needs, ensuring that every project runs smoothly and successfully.

The trusted partner for daylighting solutions

We understand that our customers need glazing systems that meet high standards while delivering reliable, long-term performance. By strictly adhering to British Standards, we ensure our products and services comply with regulations and exceed expectations.

We provide a comprehensive, turnkey solution, delivered by our team of directly employed experts. From design to installation, every stage of your project is handled by skilled professionals, ensuring consistency, quality, and a seamless experience.

Weather resistance

Our roof glazing systems are essentially capable of being glazed without a pitch at all. However we don't recommend installing roof glazing at very low pitches for a number of reasons.

Firstly the rainwater will not disperse effectively from the glass from the glass leaving unsightly tide marking.

If the rainwater is not able to shed naturally from the glass due to an insufficient slope within the design then it will dissipate through evaporation.

Dust in the air will be caught by the raindrops and the evaporation of the water will leave a series of 'water marks' on the glass which will build up over time. This again is not a problem if the roof glazing is subject to a regular cleaning schedule. Please do ensure that if you are designing roof glazing with a very shallow pitch that there is easy access to the roof glazing to allow for cleaning on a regular basis. If this isn't carried out then it won't be long before not just water marks are on the glass but a full garden beginning to take root!

Opening vents and low pitched roof glazing

Both our roof glazing systems and opening vents are capable of performing at pitches as low as 5°. However, we strongly recommend incorporating a minimum pitch of 15° into the design if regular cleaning and maintenance cannot be guaranteed.

At pitches below 15°, rainwater may not fully drain from the glazing surface or framework, leading to standing water. While this does not compromise the watertight integrity of the system, prolonged exposure to ponding especially during colder, wetter months can result in unsightly tide marks from drying water and environmental debris, and may cause premature deterioration of seals over time.

To preserve both the aesthetic quality and long-term performance of the system, a steeper pitch should be considered where ongoing maintenance is unlikely.

Maintenance

Periodic cleaning of the glazing to remove dirt and the build up of debris will be required to keep the glazing system in a good order and to avoid the loss of light transmission from the glass. Certain glass products can be subjected to thermal stresses if the panes are left unclean for prolonged periods of time.

Aluminium sections with powder coated or anodised finishes must also be cleaned regularly to conform to the terms of guarantee.

For more information on cleaning and maintenance please visit our website, where you can download and refer to our manual.

Health and safety

We are deeply committed to health and safety. All of our employees are fully aware of their responsibilities in this regard and our relevant staff hold the necessary qualifications for their roles. These include NEBOSH, IOSH, SSSTS, SMSTS, CSCS, PTS, PAL-IPAF, First Aid, and PASMA certifications.

Our commitment to health and safety standards extends to continuous professional development through our ongoing CPD programme. Employees regularly attend training courses aligned with their individual development plans, ensuring they remain current with industry standards and practices. Our in-house health and safety practitioners, along with our management and consultants, conduct regular Tool Box talks and implement our annual 'Safety Action Improvement Plan.' This approach maintains an unbroken cycle of dedication to health and safety, reinforcing our promise to uphold the highest standards in all our operations.

"The commitment to Health and Safety has been underpinned by the company's efforts on training across the workforce. This has included CITB, CSCS and First Aid. We are understandably very proud to have been the company awarded with the prestigious title 'Best Health and Safety Performance'."

Award for Best Safety Performance for Less than 50 employees

t: 01924 461 213
e: www.patent-glazing.com

A unique service

We offer full design, manufacturing and installation facilities which are all in-house.

We do not sub-contract any of our design work or installations to other companies thus ensuring that all our projects are dealt with by experts with a full knowledge of all of our complete range of glazing systems.

Condition survey

Our service offers an in-depth, on-site evaluation of your existing roof glazing. We produce a detailed report that identifies any issues, recommends targeted remedial strategies, and ensures all compliance requirements are outlined within our recommendations. Our report also details expert advice on scaffolding, hoisting, and interface requirements. Additionally, we provide a clear budget quotation for the proposed solutions.

Design and logistics survey

Once we have been appointed, we offer a comprehensive on-site design and logistics survey for the roof glazing package, culminating in a detailed report that not only captures precise design dimensions but also offers expert advice on scaffolding, hoisting, and interface requirements.

Additionally, for clients confident in obtaining accurate measurements independently, we offer a cost-effective desktop survey option, ensuring that every project receives the tailored attention it deserves.

Design

We have been designing Patent Glazing systems for over a hundred years and we would like to think that our systems are the best available anywhere.

The continued improvement of our glazing sections throughout the decades ensures that our products are built to last, fully watertight, robust and designed to meet all current regulations and best practice.

Our Technical Directors throughout our history have also been contributors to the British Standard for Patent Glazing, BS5516. We have the knowledge and expertise to be involved in any patent glazing project in the UK.

Manufacture

Since 1918, we have been manufacturing patent glazing systems at our factory located on Forge Lane, Dewsbury.

Since moving into this purpose built facility, it has undergone several expansions and now covers an area of 2600m².

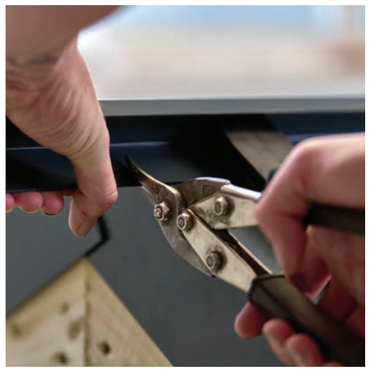
We utilise a combination of state-of-the-art machinery and original Victorian equipment to produce our distinctive Heritage lead-covered steel glazing bars, ensuring both innovation and tradition in our manufacturing process.

Installation

Our highly experienced and directly employed installation staff have installed millions of square metres of Patent Glazing throughout the decades and examples of our finished work can be seen on many of today's prestigious buildings, railway stations and shopping centres.

All of our current installation teams are long serving members of our organisation and fully qualified to carry out the most demanding of projects.

We have successfully carried out over 40,000m² of patent glazing to railway stations alone in recent times and our installers and contracts team hold all the relevant qualifications such as NEBOSH, IOSH, PTS, PAL-IPAF, First Aid, Erection of Mobile Tower Scaffolding and CSCS, of which we hold a Gold Standard certificate.



Guarantee

When our highly skilled employees install your project, it comes with a comprehensive five-year 'end-to-end' guarantee against defective workmanship. For added assurance, we can also provide extended guarantees for an additional fee.

With over a century of existence, we've supplied guarantees for tens of thousands of projects, ensuring client satisfaction and peace of mind.

Unlike many in the industry, we do not employ subcontract labour for any of our activities. This commitment to in-house expertise adds an extra layer of accountability and comfort, truly encompassing our 'end-to-end' guarantee.

t: 01924 461 213
e: www.patent-glazing.com

Plumsted Library

Replacement self supporting lantern rooflights, London

Project overview

We were engaged by N A Curtain Walling and successfully replaced three self-supporting hipped lantern rooflights at Plumsted Library. Our proprietary Skylight Box system was chosen for its versatility and robustness, meeting both aesthetic and safety requirements.

The benefits

The design achieved a class 2 non-fragility rating in accordance with CWCT standards, ensuring optimal safety while enhancing the architectural appeal of Plumsted Library.

Expert service delivery

Our client commended the seamless installation process and valued our end-to-end service approach, which included meticulous design, precise manufacturing and flawless installation. They appreciated that our team, comprising directly employed professionals, handled every aspect of the project, providing confidence and assurance throughout.

Commitment to quality

The Plumsted Library rooflight replacement project exemplifies our dedication to delivering high-quality solutions.

Our comprehensive service, combined with a focus on non-fragility and adherence to industry standards, ensured the project's success in meeting both aesthetic and functional requirements.

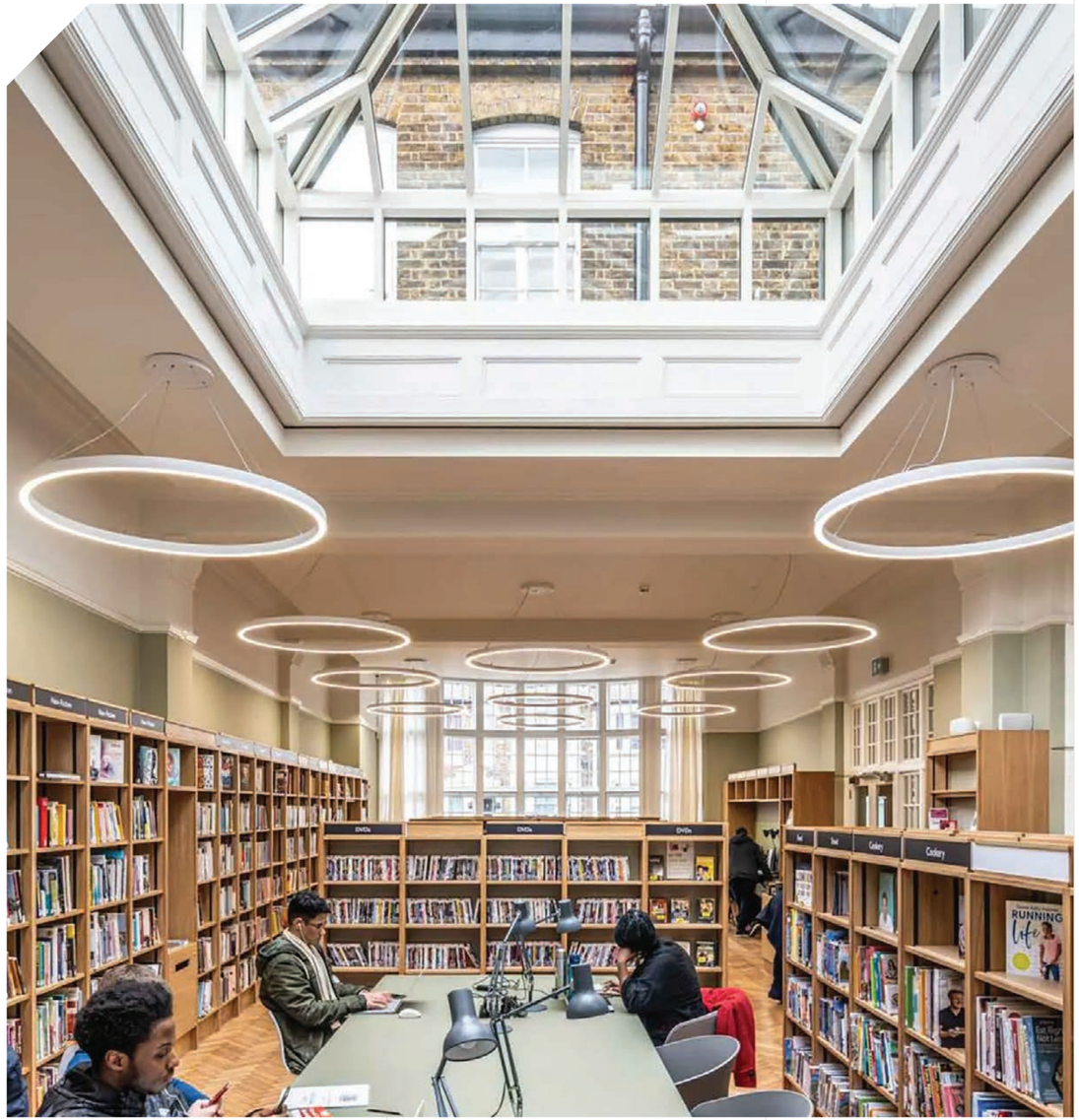
This case study highlights our capability in providing robust and versatile proprietary skylight systems, coupled with expert service delivery that encompasses design, manufacture and installation.

Main Contractor:

NA Curtain Walling

Architect:

Hawkins Brown Architects



t: 01924 461 213
e: www.patent-glazing.com

“As Senior Quantity Surveyor at NA Curtain Walling, I oversaw the replacement of three self-supporting hipped lantern rooflights at Plumsted Library by Standard Patent Glazing Co Ltd. Their proprietary Skylight Box glazing system proved to be an excellent choice, delivering both versatility and robustness as specified.

They provided a seamless installation process and demonstrated their expertise through meticulous design, precise manufacturing, and flawless installation.

Their team of directly employed professionals handled every aspect of the project, instilling confidence in the quality and reliability of their service.

The Plumsted Library rooflight replacement project showcased their commitment to delivering high-quality solutions

I would highly recommend them for their exceptional skylight systems and expert service delivery.”

Jon Silivant
Senior QS at N A Curtain Walling

t: 01924 461 213
e: www.patent-glazing.com

Case study

High Holborn

Roof Glazing Replacement at High Holborn, London

In the heart of London, at High Holborn, a significant roof glazing replacement project unfolded, reshaping the office space to enhance its energy efficiency and functionality. This case study delves into the successful replacement of 250m² of roof patent glazing, showcasing our Heritage system, equipped with solar-controlled double-glazed units to combat solar gain and bolster thermal efficiency during a comprehensive office refurbishment.

A complex glazing project

The scope of this glazing project encompassed a multi-tiered structure, characterised by its irregular shape. Additionally, two self-supporting lantern rooflights were integrated, both of which were meticulously glazed using our unique Heritage glazing system. The intricate design and structure demanded a nuanced approach to the replacement process.

The survey of the existing structure revealed significant structural unsoundness, necessitating a more intricate solution. Vinci Facilities, in collaboration with our team, embarked on a complete reconstruction of the irregular multi-tiered structure. This endeavour required complex design coordination to ensure the newly built structure seamlessly integrated with our Heritage system.

The cooperative effort proved fruitful as we delivered the project punctually, adhering to the stringent programme.

Building on the success of our previous collaboration on the roof patent glazing at The Institute of Civil Engineers Headquarters at 1 St George Street, London, Vinci Facilities entrusted us once more to deliver this unique project.

Our track record of successful delivery at 1 St George Street was a key factor in Vinci Facilities' decision to partner with us again.

Main Contractor:

Vinci Facilities Ltd

Architect:

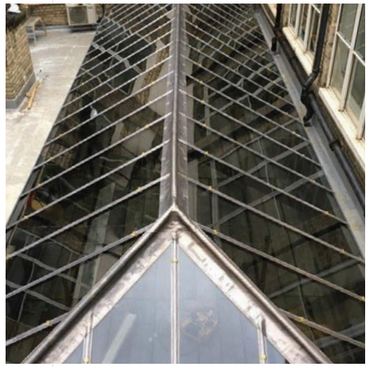
Vinci Facilities Ltd

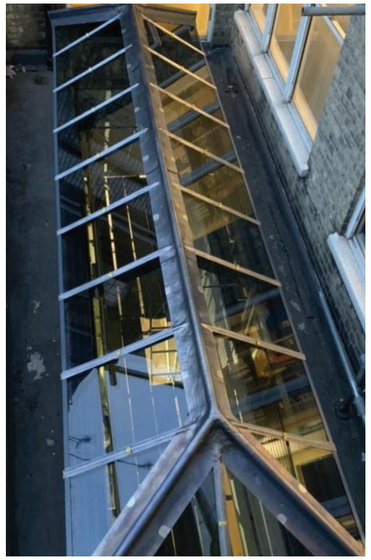
t: 01924 461 213
e: www.patent-glazing.com

"I highly commend the exceptional work carried out on the roof glazing replacement at High Holborn, London. The complexity of this project, including irregular structures and lantern rooflights, was expertly managed. Addressing structural challenges through complete reconstruction was challenging but successful.

This achievement is a continuation of our prior collaboration at The Institute of Civil Engineers Building, and it exemplifies our dedication to functionality, aesthetics and conservation."

Paul Bagley,
Senior Project Manager at
Vinci Facilities Ltd

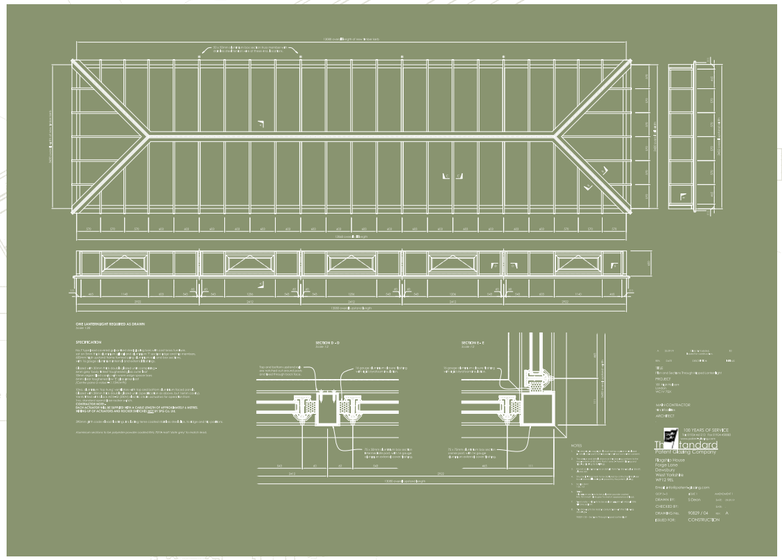




Result: enhanced functionality and aesthetic

The roof glazing replacement at High Holborn attests to our commitment to enhancing energy efficiency and revitalising spaces whilst staying true to conservation. Our Heritage system, featuring solar-controlled double-glazed units, has significantly reduced solar heat gain and improved thermal efficiency, making the office space more comfortable and environmentally conscious.

This case study highlights our adeptness in handling complex structures, responding to structural challenges, and coordinating effectively with project partners. The end result is a revitalised office space that not only looks impressive but also operates efficiently, offering a conducive environment for work and innovation.



t: 01924 461 213
e: www.patent-glazing.com

Ashbrow Road

Installation of proprietary self-supporting gable skylights

Project overview

Equans Regeneration Ltd engaged us to tender for the installation of two self-supporting bespoke gable-ended skylights in a care home communal area. The objective was to enhance daylighting while maintaining energy efficiency and occupant comfort.

To meet these requirements, we specified our proprietary gable-ended skylight, incorporating SPG 7 Skyline box glazing bars to span the designated opening.

Design considerations and performance

The design brief called for maximum light transmission while mitigating solar heat gain. To achieve this, we selected a double-glazed unit configuration featuring:

- **6mm SKN 176ii solar-controlled toughened outer panes**
  These provide a centre pane U-value of 1.0 W/m²K, a light transmission rate of 70%, and a solar G value of 0.37.
- **Comparative performance**
  A standard clear double-glazed unit typically offers a centre pane U-value of 1.15 W/m²K, a light transmission of 78%, and a solar G value of 0.69. This means that while light transmission is reduced by just 8%, the solar gain is reduced by an impressive 46%, ensuring improved occupant comfort and reduced solar gain.

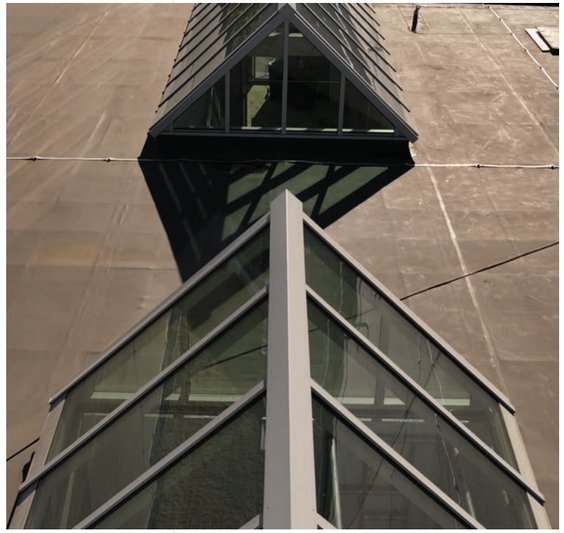
Main Contractor:

Equans Regeneration Ltd

Architect:

KS Architects Ltd

t: 01924 461 213
e: www.patent-glazing.com



Why Standard Patent Glazing Co Ltd?

Our proprietary gable-ended skylight was selected for its ability to span large openings, providing robustness, durability, and a sleek aesthetic that complements modern architectural requirements.

To enhance safety and compliance with British standards, we incorporated an 8.8mm laminated inner pane with a safety classification of 1-B-1 to BS EN12600. When combined with our Skyline Box glazing bars, this system achieves a Class 2 assembly in accordance with CWCT TN66 & TN67, ensuring safety for both building users and maintainers.

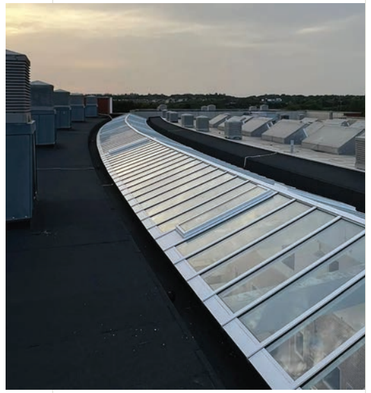
"The Standard Patent Glazing Co Ltd delivered a high-performance daylighting solution that met our project's requirements for light transmission and solar control. Their proprietary gable-ended skylight system not only provided excellent thermal performance but also ensured safety and durability for the care home's communal space. Their expertise and attention to detail made the installation process seamless, and we are extremely pleased with the final outcome."

Will Shield,
Quantity Surveyor at Equans Regeneration Ltd

t: 01924 461 213
e: www.patent-glazing.com

Shenley Brook School

Roof Glazing Replacement at Shenley Brook School, Milton Keynes



Revitalising educational spaces

Shenley Brook School in Milton Keynes faced a pressing issue with their existing self-supporting curved Ridgelight.

The constant leaks, attributed by a poor transom design, demanded a comprehensive solution. We answered the call and introduced our Skyline Box Patent Glazing System, a game-changer that incorporated our unique structural ridge member. This robust addition transformed the ridgelight into a far more weatherproof and dependable structure.

A breath of fresh air: Fire safety and ventilation

In a commitment to safety, we provided ten automatic opening ventilators (AOVs), complying with the stringent BS EN12101 harmonized European standard for smoke and heat control. These measures were essential to ensure that, in the unfortunate event of a fire, smoke dispersion was efficient and lives were protected. The safety of building users was of paramount importance.

Durability and security: Double glazed units

We undertook the task of glazing the 280m² curved opening with double glazed units to compliment our Skyline Box Patent Glazing System. This strategic choice included 6mm Clear Toughened outer panes and 8.8mm Low emissive Class A laminated inner panes, culminating in a non-fragile assembly compliant with CWCT TN66 & TN 67 standards. This configuration not only enhances the safety of occupants but also ensures the well-being of maintenance personnel who regularly access the roof for essential upkeep.

Main Contractor:

M & J Group Ltd

Architect:

N/A

Precision in design and surveying

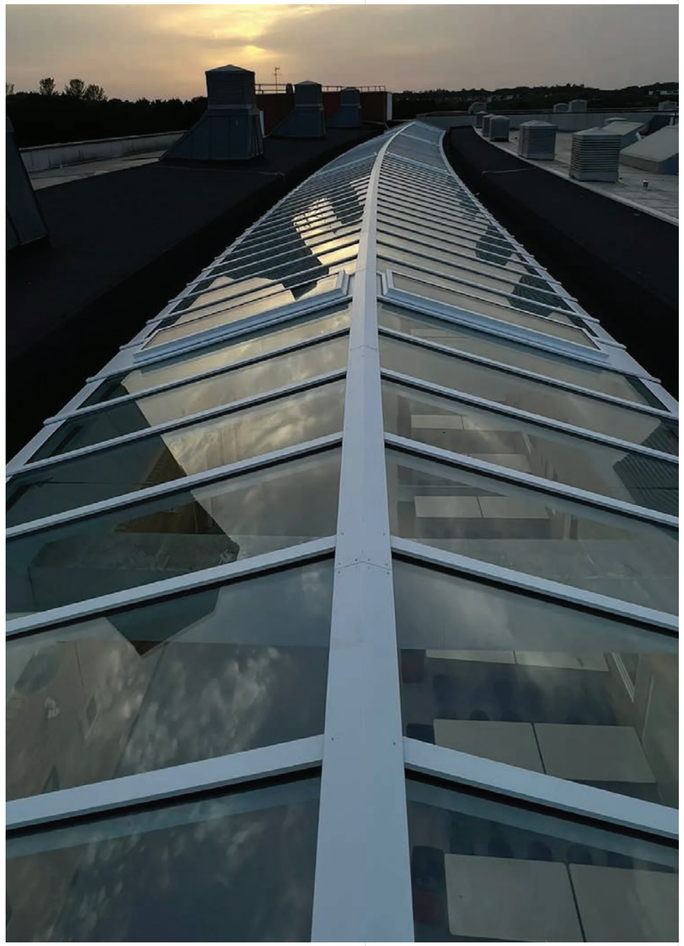
The complex curved design of the project left no room for inaccuracies. Design and surveying operations had to be flawlessly executed. Fortunately, they were, thanks to our meticulous approach. This precision paved the way for a seamless installation, performed by our experienced and directly employed Installation Team.

Result: a future full of light and safety

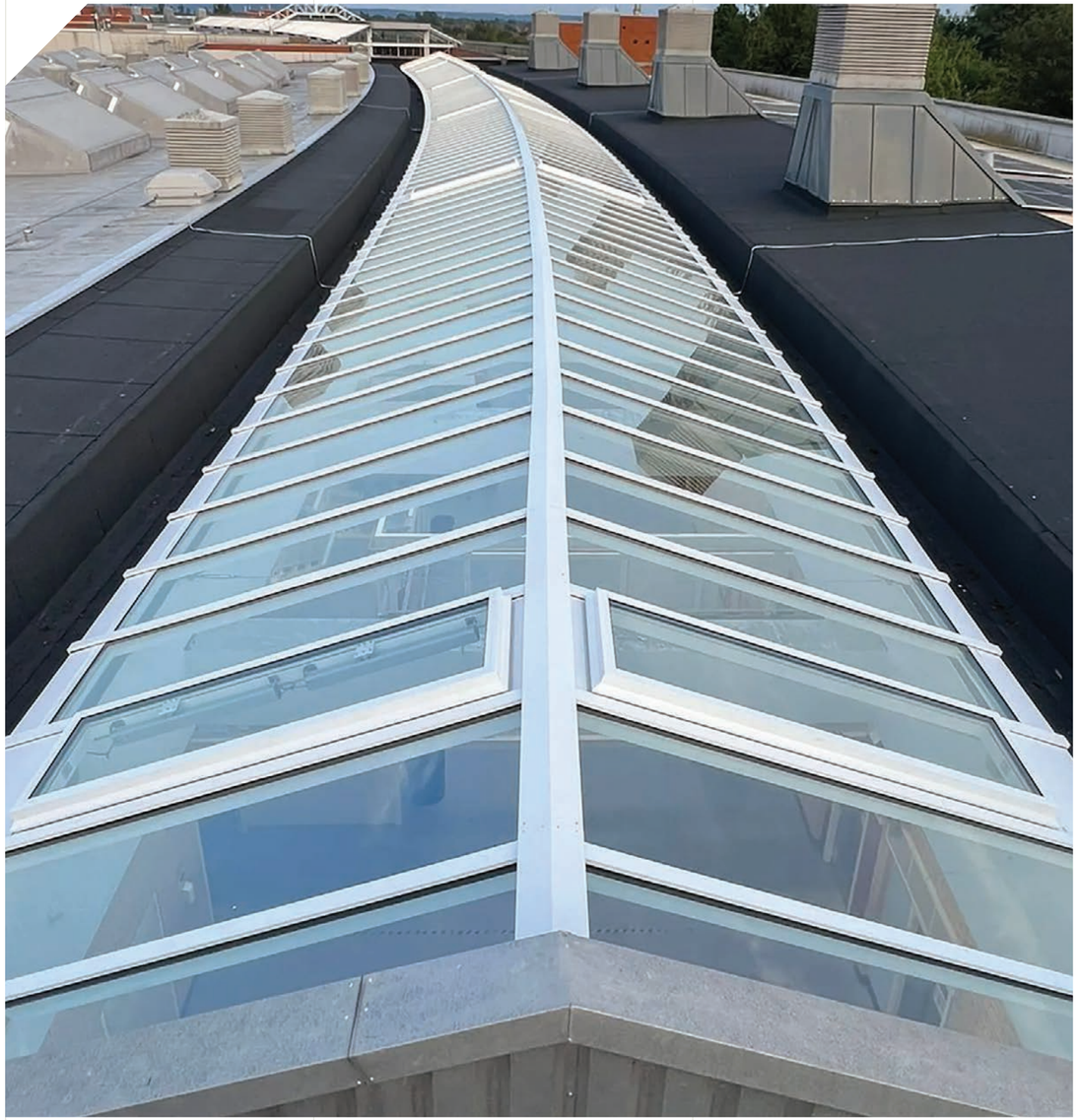
The new installation at Shenley Brook School is not just a remedy for leaks; it's a transformative addition. This revitalised space now boasts thermal efficiency, security, and, above all, an abundance of natural daylight. The future of educational excellence at Shenley Brook School is brighter, safer, and more sustainable than ever before.

This case study emphasises our commitment to elevating educational environments, ensuring that they remain conducive to learning and safety for years to come.

Case study



t: 01924 461 213
e: www.patent-glazing.com



"The Shenley Brook School project represented a critical transformation for educational spaces, and Standard Patent Glazing Co Ltd played a pivotal role in delivering a comprehensive solution.

The school encountered significant challenges with their existing curved ridgelight, which had been plagued by persistent leaks attributed to an inherent flaw in the transom design. In response, they introduced our innovative Skyline Box Patent Glazing System, featuring the incorporation of our unique structural ridge member.

This robust addition not only successfully addressed the weatherproofing issues but also ensured the establishment of a reliable structure with long-lasting performance.

Emphasising the utmost importance of safety, they provided ten automatic opening ventilators (AOVs) that strictly adhered to the rigorous BS EN12101 standard for smoke and heat control. This critical measure was indispensable in enhancing fire safety and guaranteeing the effective dispersal of smoke during emergency situations, thereby prioritising the safety and well-being of all building occupants.

We extend our commendations to them for their exceptional delivery and wholeheartedly recommend their comprehensive turnkey daylighting solutions to any prospective client in need of a trusted and reliable partner."

Gary Turpin
Construction Manager at
William Southern Ltd

t: 01924 461 213
e: www.patent-glazing.com

From design to aftercare, we handle every aspect of your project.

t: 01924 461 213
e: www.patent-glazing.com

The Standard Patent Glazing Co. Ltd, Flagship House, Forge Lane, Dewsbury, West Yorkshire, WF12 9EL

Standard

PATENT GLAZING

ESTABLISHED 1902