Designed to perform. Engineered to span. Built for efficiency.

Standard
PATENT GLAZING
ESTABLISHED 1902

Skyline Box Patent Glazing Systems



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

Designed to perform. Engineered to span. Built for efficiency.

Engineered to span, built for efficiency



Ideal for both commercial and residential applications, the Skyline Box Patent Glazing System offers an economical and high-performance alternative to traditional curtain wall roofing.

The innovative box-section design allows for seamless integration—either notched into the building structure or raised externally—making it a perfect choice for canopy glazing.

The system can accept glazed infill thicknesses from 6mm up to 54mm.

This system combines the strength and sleek aesthetics of curtain walling with the durability and weather resistance of patent glazing, all at a significantly more cost-effective price point.

The robust internal box section ensures exceptional stability, while a screw-on pressure cap provides superior weatherproofing.

For a refined finish, optional snap-on outer cappings available in plain (PC2) or ornate (PC3) styles—conceal all fixing screws, enhancing the system's clean, modern appearance.

Engineered for versatility, the system can support single, double, and triple glazed roof applications, making it a preferred choice for high-specification projects where aesthetics and performance are paramount. A thermal break option ensures compliance with Part L Building Regulations, delivering outstanding thermal efficiency and energy savings.

When paired with high-performance double glazing units featuring warm edge spacer bars and argon gas filling, the system achieves an impressive U-value of 1.4 W/m²K, meeting Building Regulation Document L requirements. For even greater insulation and efficiency, high-performance triple glazing can be incorporated, further enhancing thermal performance.

The system offers a cost-effective yet premium solution for architectural projects that demand both economical efficiency and sophisticated design—delivering strength, durability, and visual excellence without compromise.



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Endless possibilities with exceptional versatility

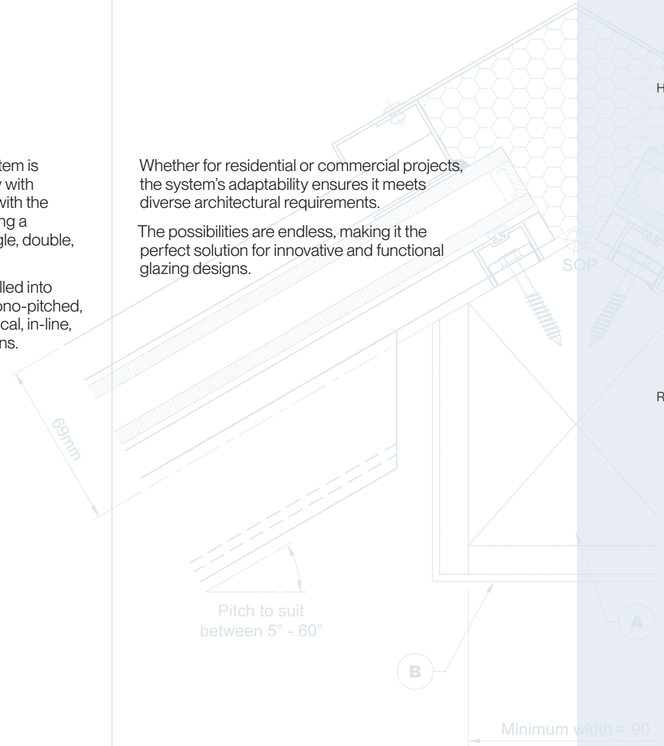


Our Skyline Box Patent Glazing System is designed with exceptional versatility with the option of being raised or in-line with the supporting structure, accommodating a wide range of configurations for single, double, and triple glazing applications.

The system can be seamlessly installed into various roof structures, including mono-pitched, duo-pitched, valleys, hips, tiers, vertical, in-line, raised, northlight, and canopy designs.

Whether for residential or commercial projects, the system's adaptability ensures it meets diverse architectural requirements.

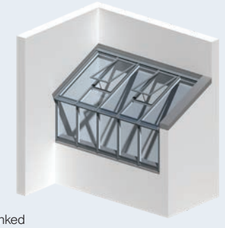
The possibilities are endless, making it the perfect solution for innovative and functional glazing designs.



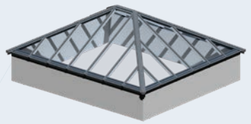
Here are some of the configurations we offer:



Canopy



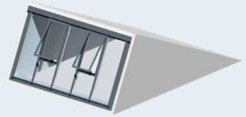
Cranked



Hipped and ridge



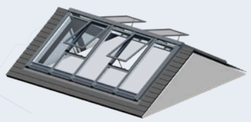
Mono-pitched to wall



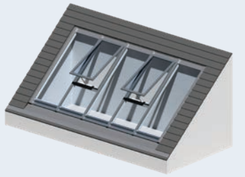
Northlight



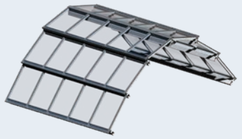
Raised above



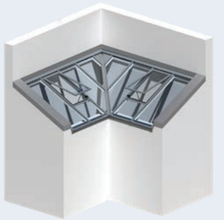
Ridgelight



Slate roof in-line



Tiered



Valley

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Engineered for strength, efficiency, and compliance

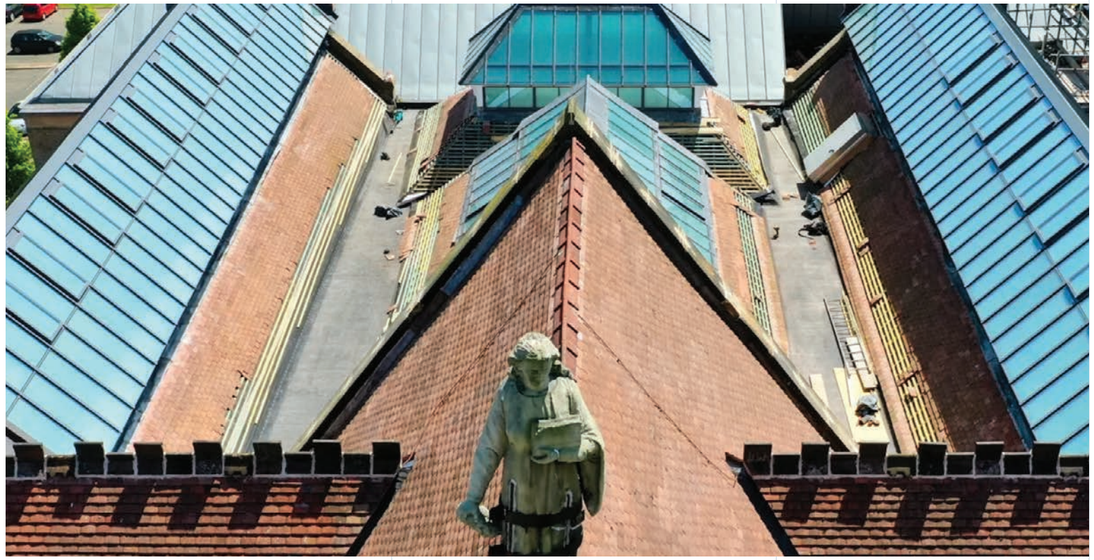
The Skyline Box Patent Glazing System is designed to meet the highest industry standards, offering exceptional structural integrity, thermal efficiency, and weather performance.

Its advanced box-section design ensures superior load-bearing capacity, allowing for large-span glazing applications while maintaining a sleek and modern aesthetic.

Compliance and industry standards

The system undergoes rigorous testing to ensure reliability and compliance with key building standards:

- **BS 5516 – Sloped Glazing Compliance:** Fully tested to meet performance criteria for overhead and inclined glazing applications.
- **CWCT TN66 & TN67 – Non-Fragility Certification:** Guarantees enhanced safety, reducing the risk of material failure under impact.
- **Building Regulations Part L – Thermal Efficiency:** Meets current thermal performance requirements, supporting sustainable building design.
- **BS 6375-1 – Weather Performance:** Provides excellent resistance against wind loads, water ingress, and air permeability, ensuring durability in challenging environmental conditions.



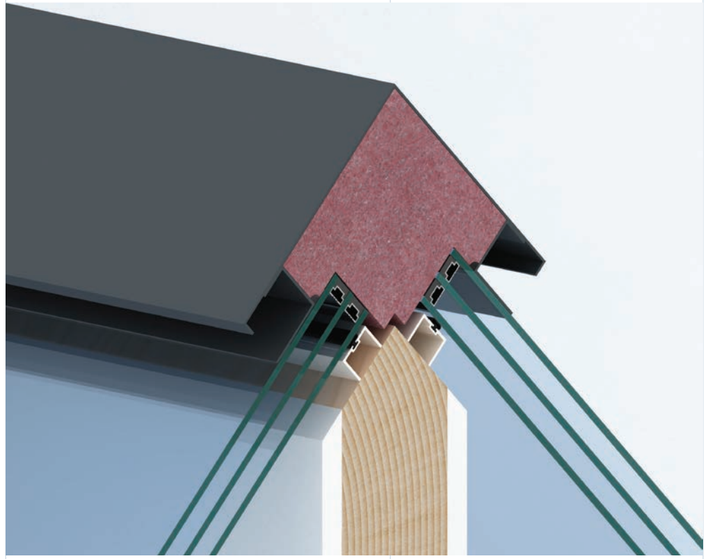
Cost-effective without compromise

The system delivers a cost-efficient alternative to traditional curtain wall roofing, without sacrificing performance, aesthetics, or longevity.

Its robust internal box-section offers high structural stability, while thermally broken profiles contribute to superior insulation and energy efficiency.

When paired with high-performance glazing units, the system achieves a U-value of 1.4 W/m²K (with low emissive double glazing and argon gas filling), meeting Building Regulation Document L.

For even greater insulation, triple glazing can be integrated to enhance thermal efficiency further.



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Span chart

Performance data for Skyline Box Patent Glazing Bars.

Bar section	Box depth (mm)	Ixx-mm^4	Zxx-mm^3 plastic podulus
SPG5	50	459,350	17,495
SPG7	75	1,043,625	28,284
SPG10	100	1,861,293	39,405
SPG15	150	4,732,206	74,053

The glazing bar spans shown above are based on using 6mm thick glass for the double glazed, single glazed and canopy types, and the bars being spaced at 600mm centres.

We will select the appropriate glazing bar for each contract.

Spans are dependent upon the site location and exposure rating, site altitude, distance from the sea, height of glazing from ground level, shape of the roof, pitch of glazing, glazing bar centres, glass weight, wind speeds, snow load, dead load and maintenance loads.

Advantages

- Large spans possible.
- Concealed capping fixings.
- 'L' Reg compliant.
- Thermally broken.
- Suitable for accepting opening vents.
- Suitable for skylights.
- Suitable for canopies/walkways.
- Single, double or triple glazed options.

Considerations

May not be suitable for certain refurbishment contracts due to rebates in existing structure being too shallow for glazing bars.

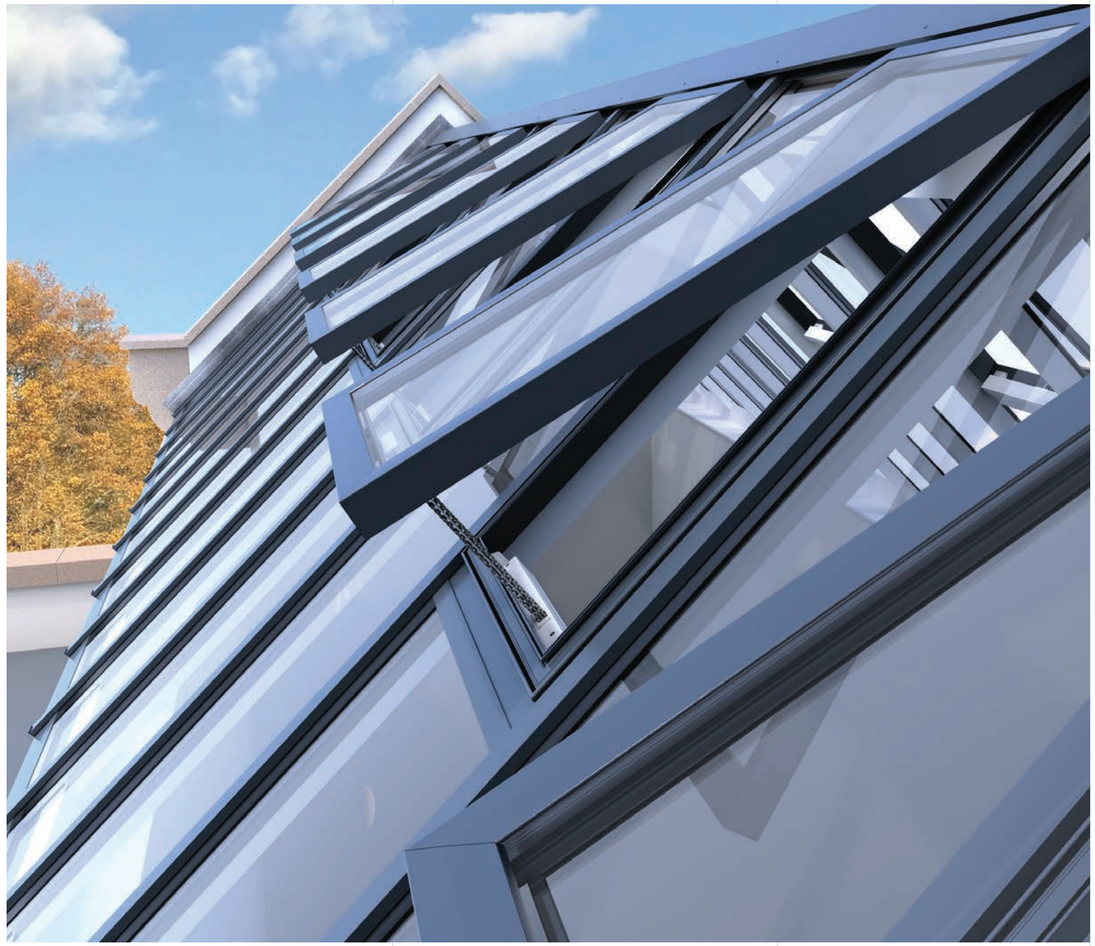
Roof span (mm)*		
Double glazing	Single glazing	Canopy glazing
1450-3440	2440-4000	2650-3830
2200-4230	3310-5000	3460-4700
2930-4880	3840-5750	4000-5430
3920-7000	4860-7500	5050-6830

*The above spans for each glazing bar have two values.

The lower span values are calculated using the most extreme environmental loadings possible in the UK whereas the higher span values are based on the least extreme.

Due to the wide range of these values it is therefore essential that we are supplied with the site postal code to enable us to calculate the correct glazing bar type for every project.

There are a large number of variables which are used to determine the maximum span of the glazing bars so please do not attempt to buy any glazing bar materials from us without first allowing us to carry out the necessary calculations for your project.



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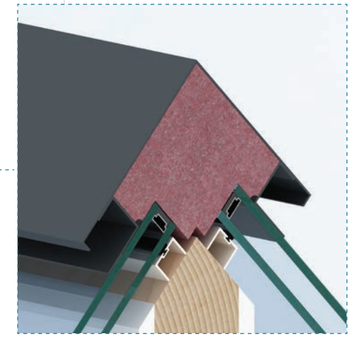
Technical drawing

This CGI render showcases a 3D technical drawing of our Skyline Box Patent Glazing System in an in-line duo-pitched configuration with double glazing. It highlights key interface details, including the eaves, intermediate joints (for spans over 3150mm), ridge, and verge connections.

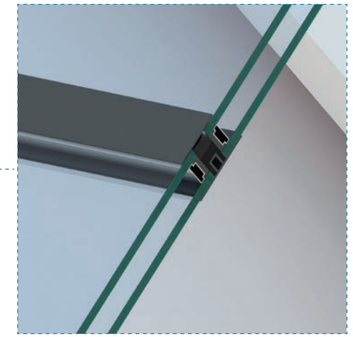
This visualisation provides a clear representation of the system's structural integration and performance.

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



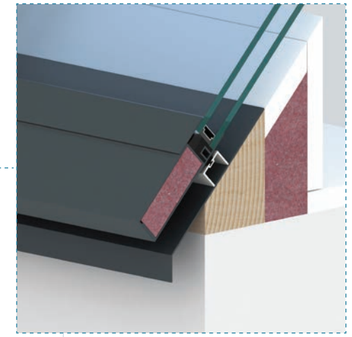


Ridge



Intermediate

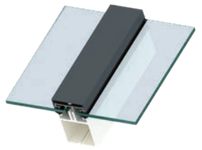
Eaves



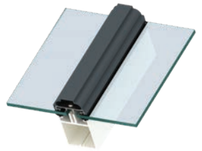
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Glazing bar configurations

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

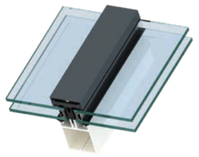


BSA-AAA-AA1

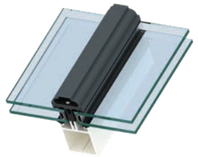


BSA-AAA-AA2

Skyline Box SPG 5 type polyester powder coated aluminium glazing bar with PC2 & PC3 cosmetic cappings—single glazed.

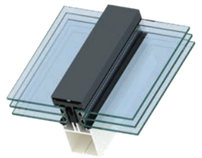


BDA-AAA-AA1

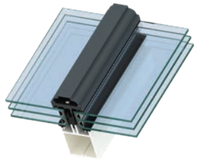


BDA-AAA-AA2

Thermally Broken Skyline Box SPG 5 type polyester powder coated aluminium glazing bar with PC2 & PC3 cosmetic cappings—double glazed.



BTA-AAA-AA1



BTA-AAA-AA2

Thermally Broken Skyline Box SPG 5 type polyester powder coated aluminium glazing bar with PC2 & PC3 cosmetic cappings—triple glazed.

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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

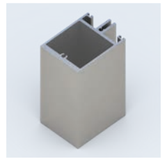
Our patent glazing systems meet stringent non-fragility standards (ACR[M]001:2014 and CWCT TN67), underlining our commitment to public safety.

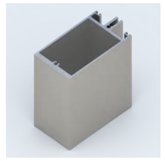
Stay informed

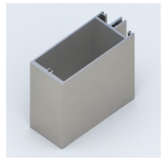
As glass technology continues to evolve, please scan the QR code for the most current product information.

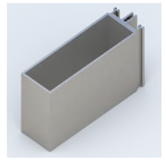
Component list

Glazing bars

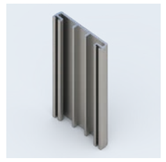

SPG5A

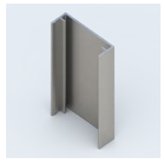

SPG7A

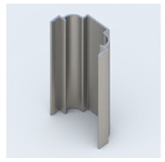

SPG10A


SPG15A

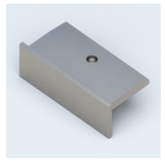
Cappings

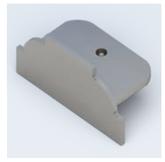

PC1


PC2


PC3

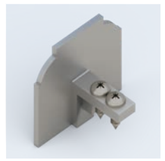

PC5

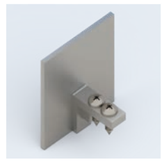

PC2 CAP

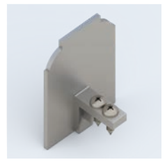

PC3 CAP

End stops & fixing plate

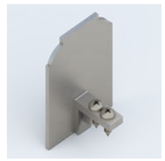

CS1

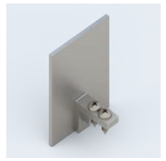

CS2


CS3


CS4


CS5

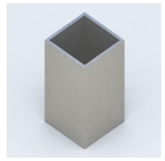

CS6

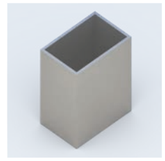

CS7

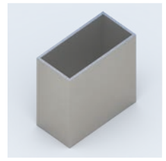

CS8

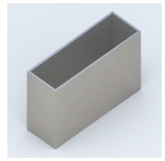

FP1

Raised system components


SPG5B


SPG7B

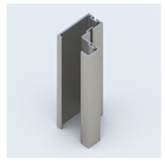

SPG10B

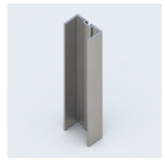

SPG15B

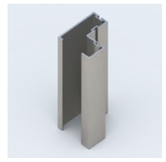

B1 ASSEMBLY

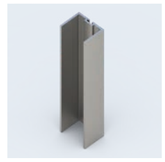

B2 ASSEMBLY

Weather bars

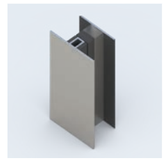

WB1

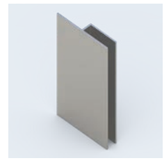

WB2


WB3

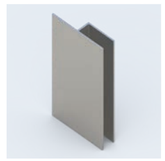

WB4

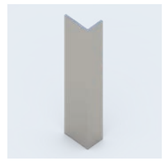
Glass abutment joints

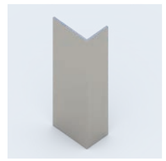

JS2

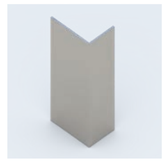

JS3

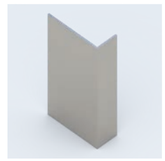
Glass edge protectors


JS4

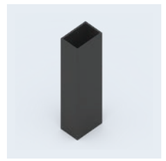

GEP1


GEP3

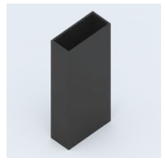

GEP4

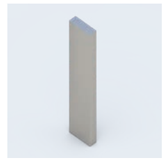

GEP5

End bar packs


EP1

Gaskets


EP2


EPS3

Thermal breaks


AB635 B

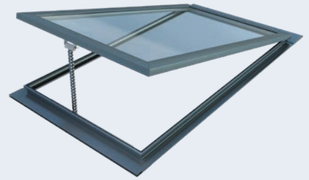
AE065 B

TB33 B

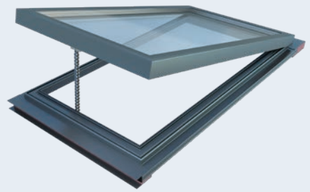
TB23 V3 B

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Opening ventilators



Single glazed opening vent



Double & triple glazed opening

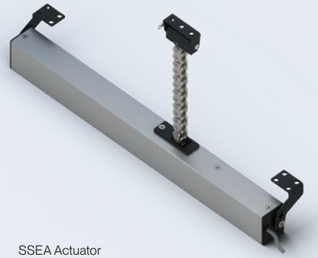
Gearing



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
1001	Beige
1013	Oyster white
1014	Ivory
1015	Light ivory
1018	Zinc yellow
1019	Grey beige
5013	Cobalt blue
5014	Pigeon blue
5015	Sky blue
5017	Traffic blue
6002	Leaf green
6005	Moss green
7016	Anthracite grey
7021	Black grey
7022	Umbra grey
7024	Graphite grey
7030	Stone grey
7031	Blue grey
8019	Grey brown
9001	Cream
9002	Grey white
9005	Jet black
9010	Pure white
9016	Traffic white

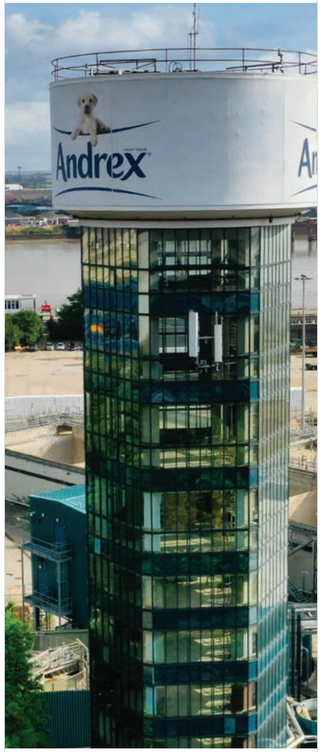
Our popular colours

7015	Slate grey
3003	Ruby red
3004	Purple red
3005	Wine red
3009	Oxide red
5000	Violet blue
5002	Ultramarine blue
6006	Grey olive
6009	Fir green
6016	Turquoise green
6018	Yellow green
6019	Pastel green
6027	Light green
7032	Pebble grey
7035	Light grey
7037	Dusty grey
7038	Agate grey
7040	Window grey
7042	Traffic grey A

5003	Sapphire blue
5004	Black blue
5008	Grey blue
5010	Gentian blue
5011	Steel blue
5012	Light blue
7001	Silver grey
7004	Signal grey
7005	Mouse grey
7011	Iron grey
7012	Basalt grey
7015	Slate grey
7043	Traffic grey B
7044	Silk grey
8011	Nut brown
8014	Sepia brown
8015	Chestnut brown
8017	Chocolate brown

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																	

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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.

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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.

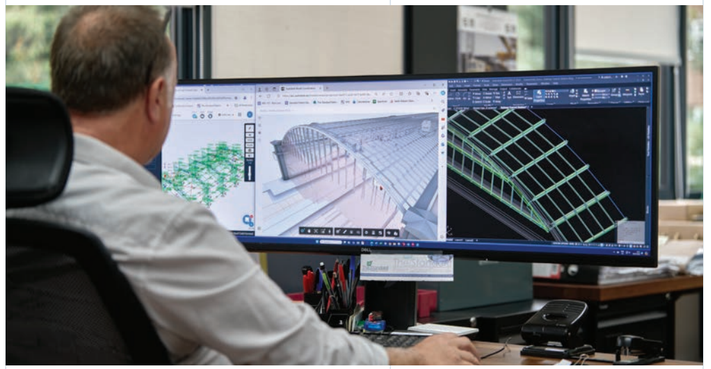
Health and safety

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



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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.

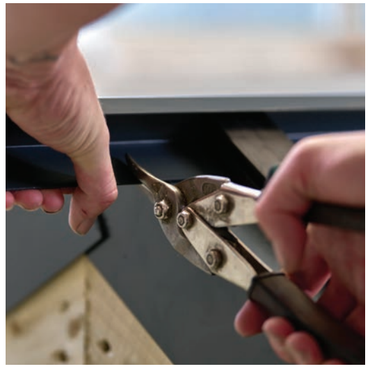
We utilise a combination of state-of-the-art machinery and original Victorian equipment to produce our distinctive Heritage lead-covered steel glazing bars, ensuring both innovation and tradition in our manufacturing process.

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.

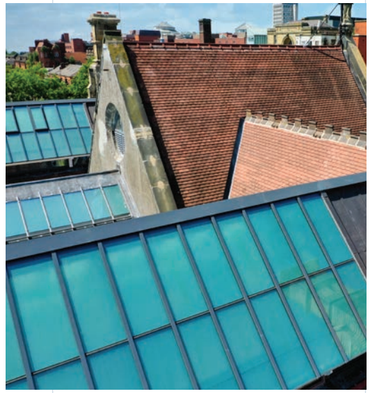


This track record is evidence that when you specify 'Standard', you are choosing satisfaction and reassurance.

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Case study

Heritage and Arts Centre



Roof glazing replacement, Oldham

The transformation of the former library into a new Heritage and Arts Centre in Oldham marked an ambitious project, breathing life into a cherished Victorian landmark. The building was set to become the heart of the community, linked with Gallery Oldham, the Library, and the Lifelong Learning Centre.

This endeavour, driven by Oldham Council's heritage service, aimed to consolidate local studies, archives, museum collections, and arts and heritage learning under one roof.

This was a visionary step to unite services scattered across six different buildings throughout the town.

Recognising excellence

In recognition of our commitment to excellence, we proudly received the award for the highest quality standards on this project. This accolade came from none other than the Principal Contractor, Tilbury Douglas, validating our dedication to delivering exceptional results.

Innovative roof glazing systems

Our contribution to this project was substantial, installing a total of 360m² of roof patent glazing.

We installed the Skyline Box Patent Glazing System which incorporated high-performance double-glazed units designed for solar control and heat strengthening.

The inner panes featured laminated safety glass, all coming together to achieve a class 2 non-fragile assembly. This approach aligned perfectly with the guidelines set forth in CWCT TN66 and TN67.

The East and West wings received automatic opening ventilators to promote natural ventilation, enhancing the comfort and efficiency of the building. These ventilators are seamlessly controlled by the Building Management System

Additionally, our Heritage Patent Glazing System was implemented for the central roofs, once again utilizing high-performance double-glazed units with solar control and heat strengthening features.

The inner panes were laminated safety glass, ensuring that this portion of the project also achieved a class 2 non-fragile assembly, in strict accordance with CWCT TN66 and TN67 guidelines.

Main Contractor:

Tilbury Douglas Construction Ltd

Architect:

Mecanoo Architecten BV



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A unique blend of tradition and modernity

We take pride in being the only company in the daylighting industry that seamlessly combines the delivery of a modern glazing system, such as the Skyline Box Patent Glazing System, with the preservation of Victorian originals, like our unique Heritage system.

This distinctive capability underscores our dedication to preserving historical heritage while embracing modern solutions.

"I want to express my deep appreciation for the remarkable work undertaken by Standard Patent Glazing Co Ltd in the roof glazing replacement project at the Heritage and Arts Centre in Oldham. Their contribution was pivotal to the success of this ambitious transformation, where a former library was rejuvenated.

The completion of the project signifies a triumph in heritage restoration and modern functionality. Their recognition and award for the highest quality standards on this project is well-deserved, underscoring their dedication to delivering outstanding results."

Alex Moore
Senior Project Manager at Tilbury Douglas

Result: a heritage and arts hub

The completion of the Heritage and Arts Centre in Oldham signifies a triumph in heritage restoration and modern functionality.

This transformation brought together dispersed services, fostering community cohesion and accessibility to Oldham's rich history and culture.

The recognition for the highest quality standards underscores our commitment to delivering outstanding results.

This case study highlights our ability to combine modern glazing solutions with historic preservation, ensuring that cherished landmarks continue to inspire and serve the community.

The Heritage and Arts Centre now stands as a symbol of both history and innovation, a testament to the power of revitalising architectural heritage for future generations.



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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.

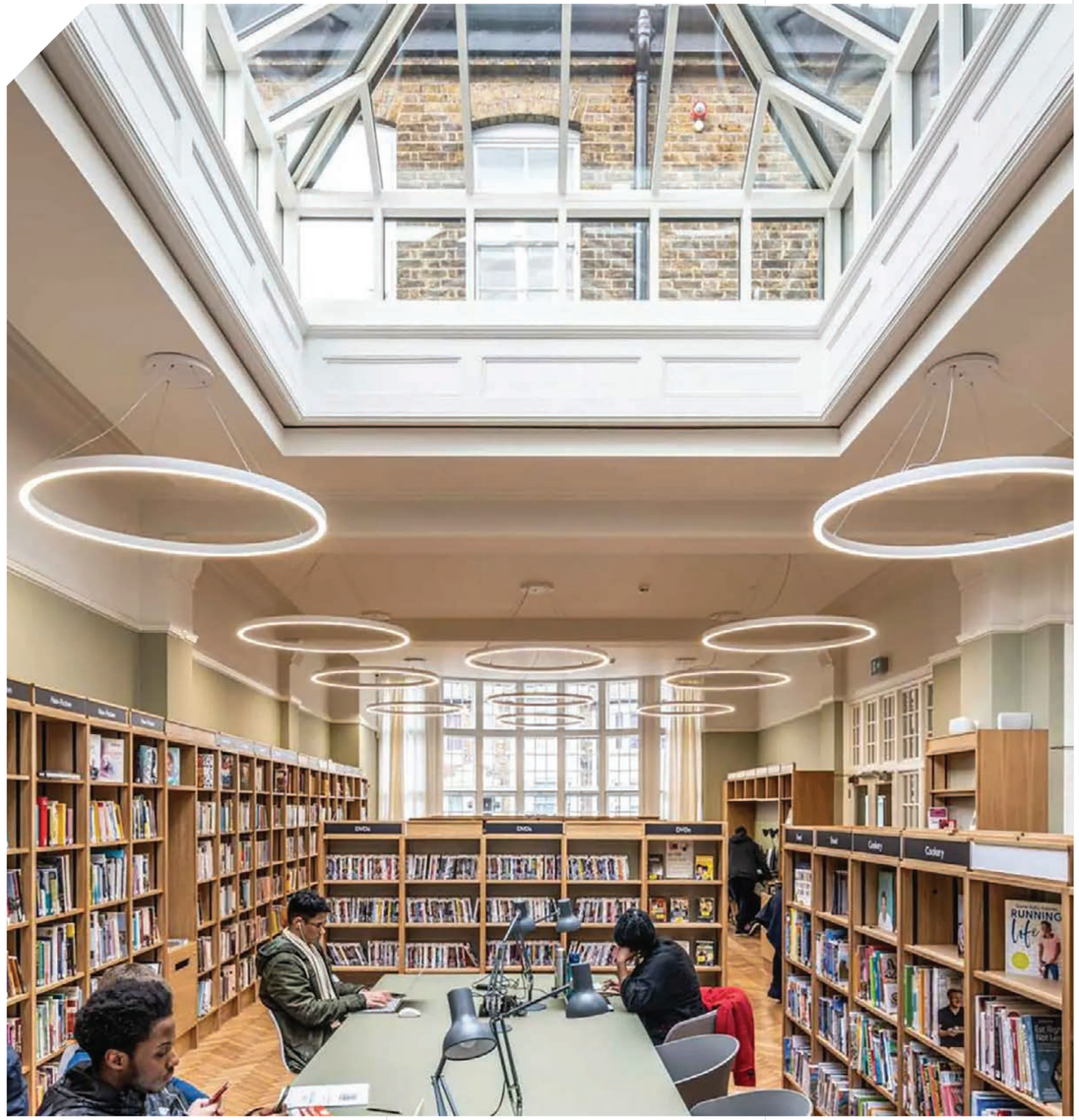
This case study highlights our capability in providing robust and versatile proprietary skylight systems, coupled with expert service delivery that encompasses design, manufacture and installation.

Main Contractor:

N A Curtain Walling

Architect:

Hawkins Brown Architects



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“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

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Kimberley Clark Façade Works

Water tower and façade glazing, Northfleet



Phase 1: replacement façade glazing to Derelict Water Tower

In the initial phase, we undertook the installation of 1200m² of patent glazing on a faceted façade, comprising 22 tiers. The survey of the existing structure, complicated by the complex shape, required meticulous planning. Coordination with the client and the scaffolding contractor was crucial to ensure effective installation logistics.

Challenges included negotiating protruding elements during glazing system installation. To address this, bespoke prefabricated sheet aluminium panels and weathering flashings were employed, effectively weathering the structure. Additionally, the company supplied new entrance and fire exit doors for the building.

As part of the aesthetic considerations, spandrel panels were strategically installed to conceal intermediate floors, seamlessly matching the corporate colours of the client's branding. The entire installation process adhered to CWCT standards, resulting in a successful design, manufacture and installation.

Phase 2: replacement façade glazing to canteen and office buildings

Building upon the success of the first phase, we continued as the chosen company for the second phase. Survey challenges persisted due to the existing glazing system remaining in place during the installation.

Navigating the complexities of a live building, the project team formulated a robust program of works. The installation of glass double glazed units, each weighing approx. 100kgs, required the incorporation of a specialist contract lift.

Consistency in design elements was maintained, with the installation of spandrel panels continuing to conceal intermediate floors, aligned with the client's branding. Adherence to CWCT standards persisted throughout the installation process.

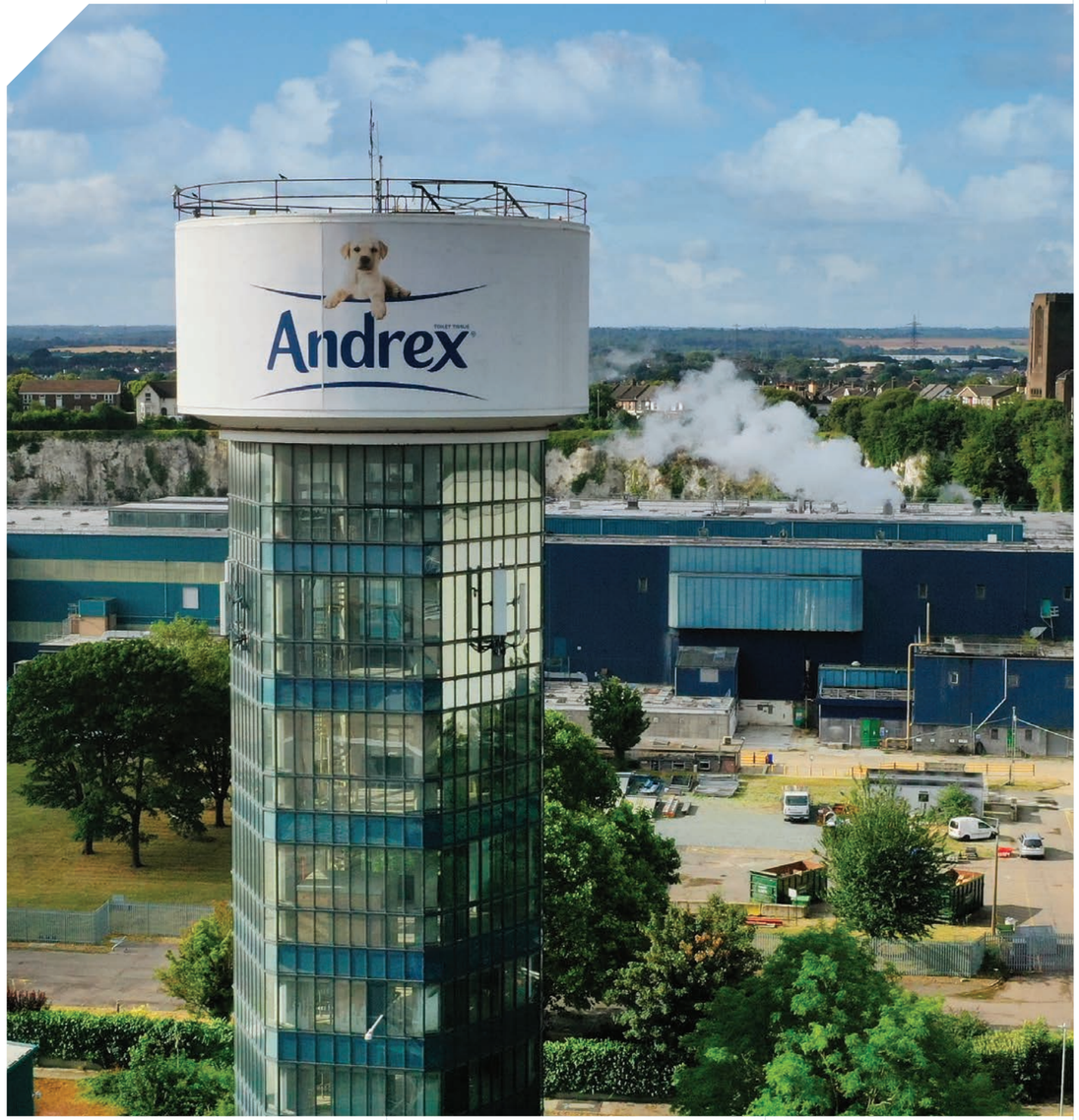
In conclusion, both phases were successfully completed, showcasing the company's effective planning, coordination, and unwavering commitment to industry standards. We solidified our reputation as a reliable partner for intricate façade glazing projects at the Kimberly Clark paper mill in Northfleet.

Main Contractor:

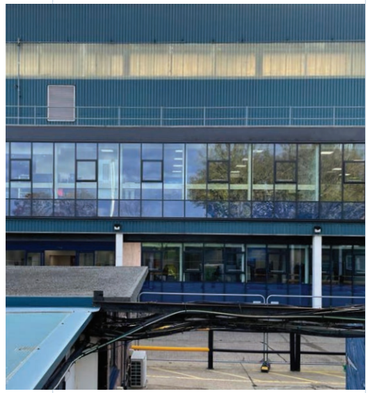
Kimberley Clark Ltd

Architect:

N/A



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



"I am pleased to provide an enthusiastic testimonial for the outstanding work delivered by Standard Patent Glazing Co Ltd on the Northfleet Water Tower and Façade Glazing project.

During the first phase, the installation of 1200m² of patent glazing to a faceted façade presented complex challenges, including a survey of the existing structure with the glazing in place. They demonstrated meticulous planning and coordination with both our team and the scaffolding contractor. Negotiating protruding elements during installation was managed with precision, utilizing bespoke prefabricated sheet aluminium panels and weathering flashings.

The addition of new entrance and fire exit doors, along with strategically placed spandrel panels that seamlessly matched our corporate colours, showcased their attention to detail and commitment to aesthetic considerations. The entire installation adhered to CWCT standards, resulting in a design, manufacture, and installation that we consider a huge success.

Given their exceptional performance in the first phase, they was the clear choice for the second phase involving the replacement façade glazing to our canteen and office buildings. Despite the challenges posed by the live building environment, the company's project team formulated a robust program of works, ensuring minimal disruption.

The incorporation of a specialist contract lift for glass double glazed units weighing around 100kgs demonstrated their dedication to safety and efficiency.

Consistency in design elements, including the installation of spandrel panels and adherence to CWCT standards, remained paramount throughout the entire project. They have undoubtedly solidified their position as a reliable and expert partner for intricate façade glazing projects at our Kimberly Clark paper mill in Northfleet.

In conclusion, I highly recommend them for their expertise, professionalism, and exceptional performance in delivering a successful outcome for both phases of this project."

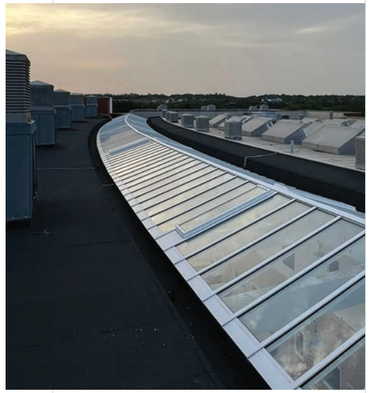
Robert Sage
Project Manager at Kimberly Clark



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.

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.

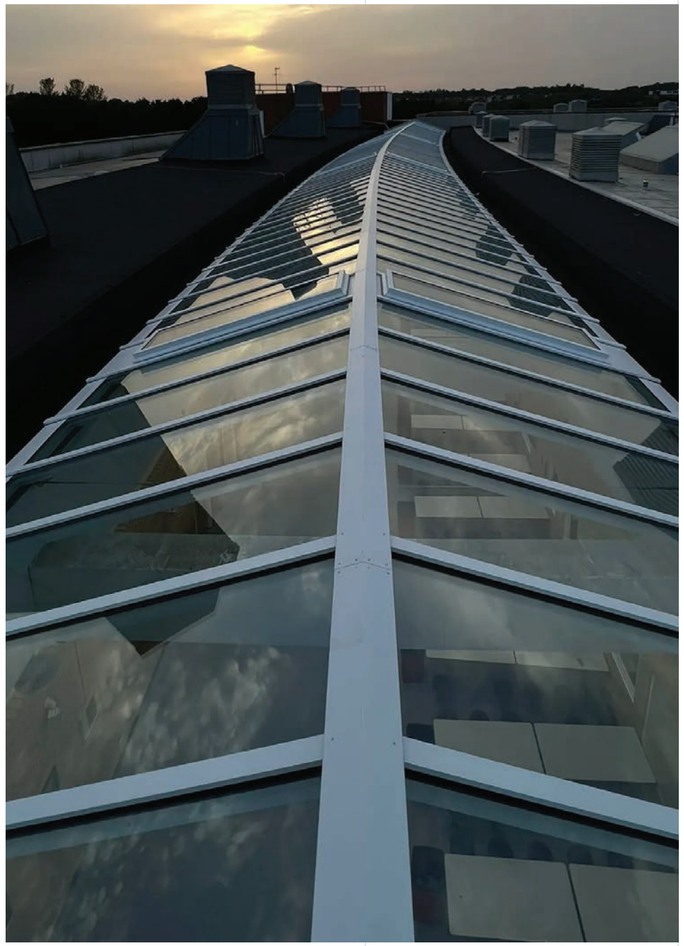
This case study emphasises our commitment to elevating educational environments, ensuring that they remain conducive to learning and safety for years to come.

Main Contractor:

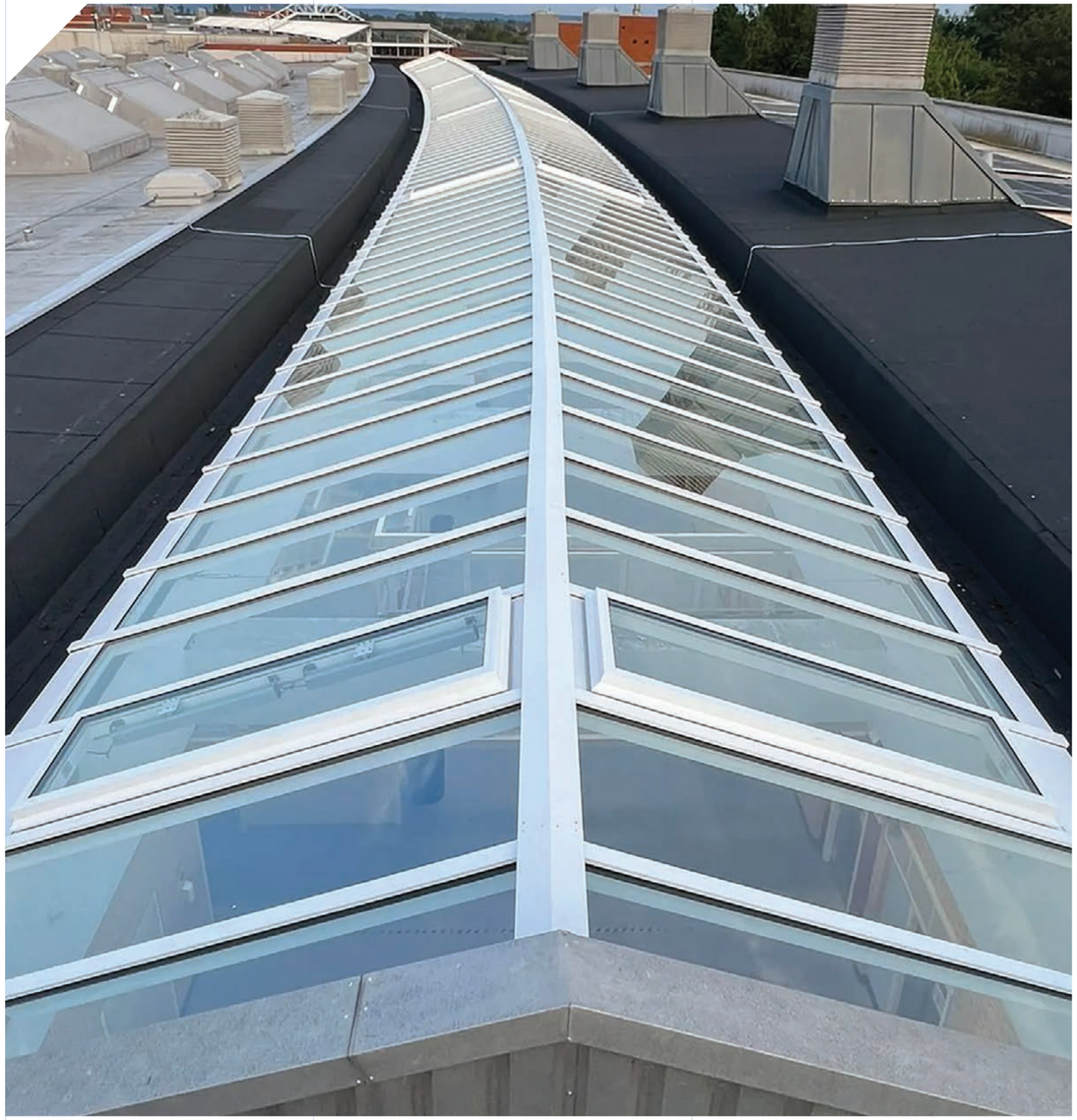
M & J Group Ltd

Architect:

N/A



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

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