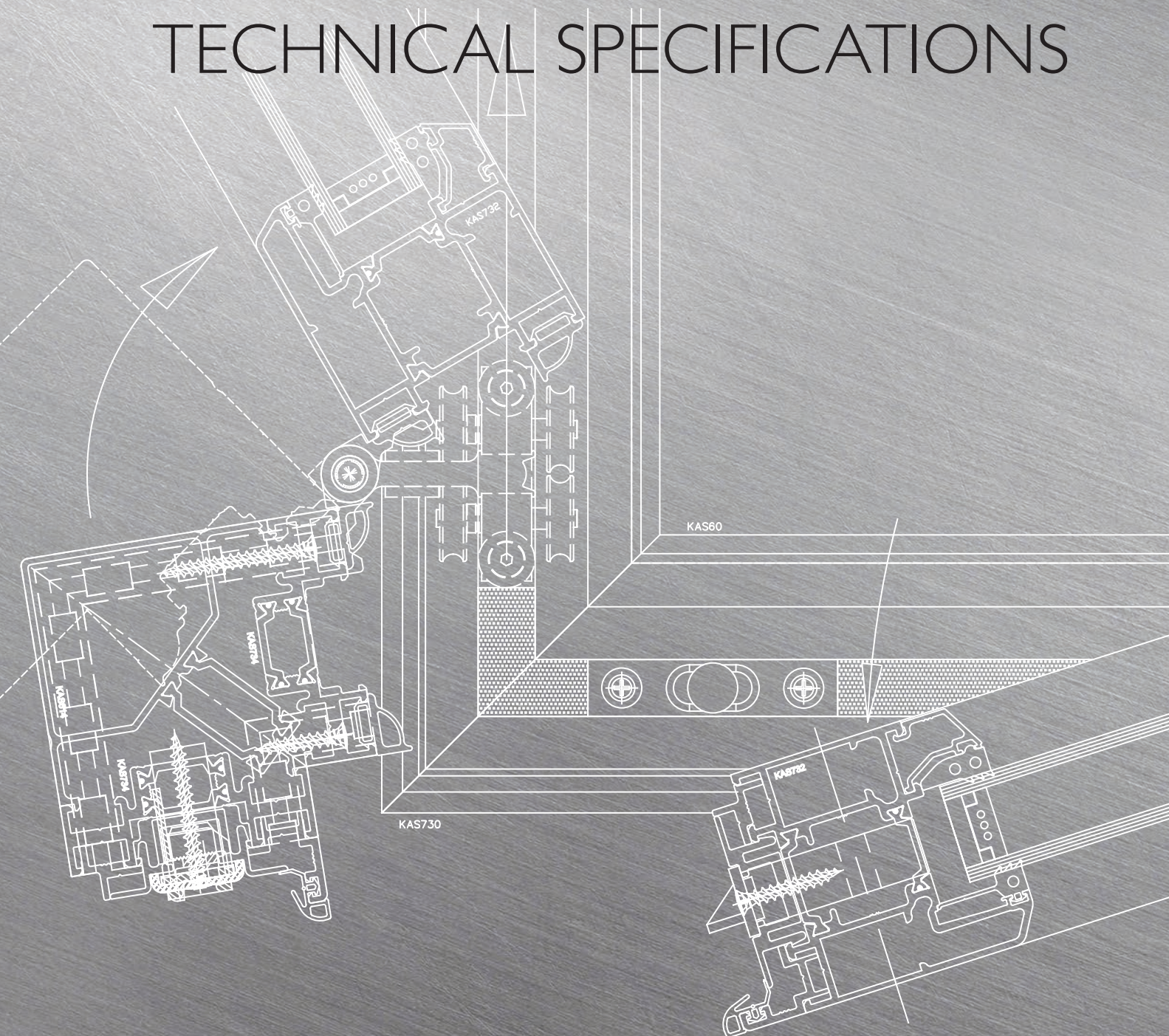















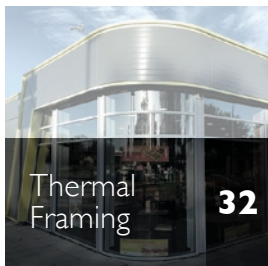
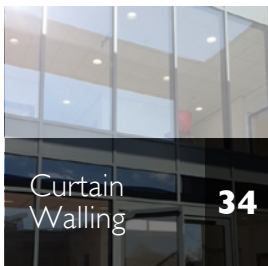
KESTREL
ALUMINIUM SYSTEMS

KESTREL SYSTEMS TECHNICAL SPECIFICATIONS





Kestrel Systems Technical Specifications / Contents

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Kestrel Aluminium Systems

Established in 1989 we have grown from strength to strength to become a reputable nationwide fenestration systems house developing commercial and domestic products to meet the ever-changing needs of the customer.



WINDOW SYSTEMS

The Kestrel suite of window systems is designed to create contemporary aesthetics for any building using slim profiles with design options that offer stylish choices for any given window configuration. All our systems are secure and energy-efficient meeting the exacting standards of Document L building regulations. Systems can be specified as single or dual colour powder coated to provide personalisation or to conform to design restrictions and regulations. All are fully compatible with our wider product portfolio and are complemented with a full range of hardware and accessories.



DOOR SYSTEMS

We offer a comprehensive range of door suites for the commercial and residential marketplace. The shopfront system has sections to create both flush and bead glazed frames to suit all applications. The main framing sections are 100 x 45mm for both single and double glazed options and are designed to ensure straightforward and robust fabrication that can be easily glazed on-site. There is a wide choice of sections to make any style of door leaf including auto swing, manual and automatic sliding, sliding folding and rebated.

Our residential door systems include a rebate door with fixed sidelights or fan lights that can be incorporated into the design. A Sliding Patio Door with narrow profile faces which creates a dramatic removable wall providing uninterrupted views. The Folding Sliding Door completes the range enabling the doors to fold flush against each other, providing seamless lines and maximum visibility. A corner option features a compact corner post that folds neatly with the doors as they are stacked.





GLAZING BARS

The roof glazing bar range is designed in accordance with BS5516 and can be specified as standard or thermally improved versions. Light, standard and heavy-duty glazing bars are available. Square and sloping caps are designed to work with common infill materials from 6mm glass through to multi-wall polycarbonate sheet and insulating glass units. The system can be used in vertical as well as sloped applications. The range of profiles includes sheet closures, eaves and end fillers, adjustable wallplate, rafter bars, fixing plates and end and glass stops.

FLAT ROOFLIGHT SYSTEM

A contemporary but practical Flat Rooflight designed to meet the needs of the commercial and residential marketplace using sustainable materials which deliver superior aesthetics and crisp clean lines. Once installed the secure rooflight maximises natural light providing an elegant appeal to any office, school or hotel whilst offering a steady airflow for ventilation purposes.



LANTERN ROOFLIGHT SYSTEM

Our Lantern Rooflight System has been designed to make fabrication simple, stress and fuss-free to meet the needs of the modern building. Fully thermally broken with no compound mitre cuts our Lantern Rooflight System can be easily screwed together. Corner joints are performed with mechanical cleats which with the aid of punch tooling provide a strong, neat and secure joint to each of the corners of the lantern rooflight. The joining system makes site assembly possible meaning transportation and manual handling of the materials onto the roof become easier.



CURTAIN WALLING

The Curtain Walling System is an economical and attractive facade cladding for buildings where good weather and thermal performance is required. The system is suitable for low and medium rise applications and has a range of mullion and transom depths from which to select. It is designed to be zone drained and has been CWCT tested, providing important thermal performance from the use of co-extruded PVCu pressure plates. It will accommodate glazing options from 6mm to 28mm, and is fully compatible with our window and door suites. As with our shopfront system, a full range of accessories is also available.



STANDARD SECTIONS

We complement our aluminium systems with a full range of standard sections that includes angles (equal and unequal), channels, flat bars, hollow box sections and T-bars. We also supply a wide range of aluminium sheet.

A FLEXIBLE SOLUTION FOR ALUMINIUM SYSTEMS

The accessories we stock mean that Kestrel is not just about aluminium sections. We stock a comprehensive range of hardware to meet all the security and safety requirements of today's market.





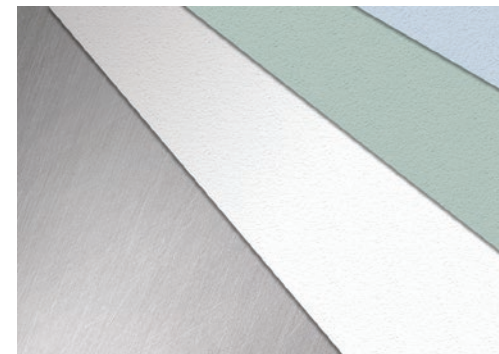
STOCK RANGE

An extensive range of sections for shopfronts, commercial doors, curtain-walling, windows and glazed roofs, standard sections and sheet material is available. We offer alternative lengths for most of our sections to ensure the customer is able to choose the most economical options for any order. Alternative and half and quarter lengths mean we offer up to six options on many sections.



FINISHES

Most sections are stocked in mill finish, natural anodised and white powder coated. We have our own powder coating facility so can offer industry leading turn-around times on a vast range of standard colours. This gives us the control to ensure a high-quality finish and your material when you need it.



DELIVERY

Using our own fleet of dedicated vehicles and drivers, we provide an efficient delivery service to all parts of the country from our central base. We do not work to a rigid delivery schedule, preferring instead to co-ordinate with the needs and demands of our customers. This means our deliveries are generally made within days, even for powder coated material, accommodating even the most stringent requirements.



TECHNICAL SUPPORT

The technical team continuously develops the systems to ensure new and existing products meet and exceed the demands of the market. We offer knowledgeable guidance and advice at all stages, from initial specification, to U-value and wind-load assessment, through to workshop and on-site support. We have in-house estimating support which is available to our customers to assist them in the efficient creation of quotations and cost breakdowns. It produces detailed drawings, optimised cutting reports, glass sizes and is supported by our experienced and dedicated team who provide demonstrations and training.





The thermally efficient 60mm Window System is designed for both residential and commercial application such as homes, schools, offices and leisure facilities.

The system is fully compatible with the full suite of Kestrel products and can be used in conjunction with the Curtain Walling and Thermal Framing Systems offering a complete glazing solution for new builds and refurbishment projects.

Design Options

- Single or dual colour
- Double or triple glazing
- Top, bottom or side-hung
- Parallel opening
- Pressure fit bead
- Tilt before turn
- Fixed light
- Cill options

Performance

- Air permeability: 600Pa
- Water ingress: 600Pa
- Wind resistance: 2000Pa
- Safety requirement: 3000Pa

TECHNICAL SPECIFICATION

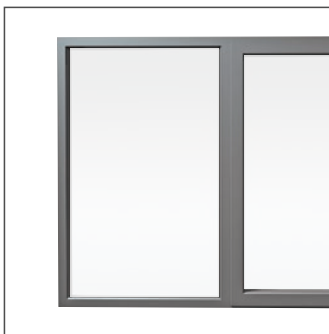
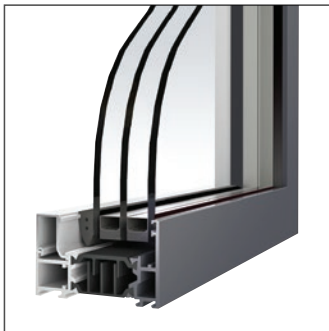
Application	Residential new build, refurbishment and light commercial.			
Window types	Open out casement (top, bottom or side-hung), pressure fit, parallel opening, tilt before turn.			
	Casement	Pressure Fit	Parallel Opening	Tilt Before Turn
Maximum window opening width*	1000mm	1000mm	1500mm	1600mm
Maximum window opening height*	2000mm**	2000mm**	2200mm	1800mm
Internally beaded option	Yes	No	Yes	Yes
Externally beaded option	Yes	Yes	No	No
U-Value (using BS EN 14351 window arrangement)	1.7/WERC	1.7 W/m2K	1.7 W/m2K	1.7/WERC
Thermal performance	Polyamide thermally broken profiles - Document L1A, L1B/L2A, L2B compliant.			
Cills	Range of options including one piece polyamide.			
Joining	Mechanical corner and transom / mullion jointing.			
Glazing options	Will accept double or triple IGU and infill panels 28 – 32mm thick.			
Performance	Water ingress 600Pa Air permeability 600Pa Wind resistance 2000Pa Safety requirement 3000Pa			
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.			
Single or dual colour profiles	Option			
Trickle vents	Standard or slimline			
Handles	Locking , non locking. Black, White, Silver.			
Security	Multi-point bi-part espagnolette locking. PAS24 compliant.			
Design standards	BS EN 12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles. BS 3987:1991 Specification for anodic oxide coatings. BS EN 12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys. BS 4873:2016 Specification for aluminium alloy windows and doorsets. BS EN 14351-1:2006+A2:2016 Windows and doors, performance characteristics. BS EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters. PAS 24:2016 Enhanced security performance requirements for doorsets and windows.			

* Subject to use of appropriate hardware and site conditions.

** With Sterling hinges

Technical Specification

70mm Window System



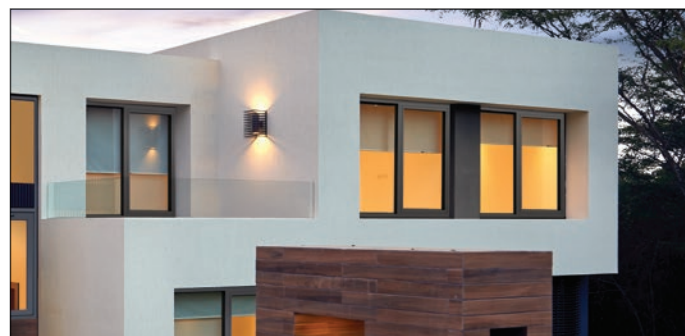
Designed for both residential and commercial applications, the thermally efficient 70mm Window System has a wealth of design options making it ideal for use in homes, schools, offices and leisure facilities. It can be used in conjunction with our Curtain Walling and Framing Systems offering a complete glazing solution for both new build and refurbishment projects.

Design Options

- Single or dual colour
- Open out casement (top or side-hung)
- Individual or composite window styles
- Fixed light
- Cill options
- Double or triple glazing
- Opening restrictors

Performance

- Window tested to UK exposure category I 600
- Water tightness: 600Pa
- Air permeability: Class 4
- Wind resistance: Class C4
- Safety requirement: 2400Pa



TECHNICAL SPECIFICATION

Application	Residential new build, refurbishment and light commercial.
Window types	Open out casement (top or side-hung), fixed light.
Maximum window opening width*	Side hung 1000mm • Top hung 1000mm
Maximum window opening height*	Side hung 1500mm • Top hung 1200mm
Frame profiles	Profiles 70mm deep. 43mm sightlines on fixed profiles. Odd leg, Curtain Wall.
Corner posts	90° and 135°
Cills	Range of options including one piece polyamide.
Joining	Mechanical corner and transom/mullion joining.
Thermal performance	Polyamide thermally broken profiles - Document L1A, L1B/L2A, L2B compliant.
U-Value	As low as 1.2 W/m²K.
Performance	Window tested to UK exposure category I 600 Water tightness 600Pa Air permeability Class 4 Wind resistance Class C4 Safety requirement 2400Pa
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.
Single or dual colour profiles	Option.
Glazing options	Will accept double or triple IGU and infill panels 24 – 40mm thick.
Square beaded	Internally.
Hardware	Nominal 13.5mm cavity accepts most proprietary fittings. Non-handed friction hinges.
Trickle vents	Standard or Slimline
Locking handles	Inline or offset– Black, White, Grey, Graphite, Silver and Gold.
Security	Multi-point bi-part espagnolette locking, PAS24 compliant.
Opening restrictors	Child and Health Care.
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i> BS 4873:2016 <i>Specification for aluminium alloy windows and doorsets.</i> BS EN 14351-1:2006+A2:2016 <i>Windows and doors, performance characteristics.</i> BS EN ISO 10077-2:2017 <i>Thermal performance of windows, doors and shutters.</i> PAS 24:2016 <i>Enhanced security performance requirements for doorsets and windows.</i>

* Subject to use of appropriate hardware and site conditions.



Our Folding Sliding Window System transform the appearance and performance of any home.

Windows fold away neatly and easily to maximise natural light, ventilation, and views. There is a choice of opening configurations, with sashes folding internally, externally or split opening.

The window is designed for residential and commercial applications and is fabricator friendly to make installation on-site as easy as possible.

Configurations

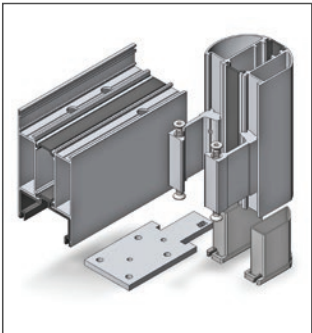
- Open in or out
- Left, right, split opening

Design Options

- Single or dual colour powder coated
- Double or triple glazing
- Flush or rebate track
- Bead design options
- Cill options
- Hardware colour options

TECHNICAL SPECIFICATION

Application	Residential new build, refurbishment and light commercial.
Maximum window opening width	1000mm
Maximum window opening height	2700mm
Jointing	Mechanical
Glazing options	Will accept double or triple IGU and infill panels 28 – 32mm thick.
Beading	Internal
Cills	Design coordinated to rest of residential range.
Thermal performance	Polyamide thermally broken profiles - Document L1A, L1B/L2A, L2B compliant.
U-Value	1.6W/m2K
Security	Multi-point bi-part espagnolette locking, PAS24 compliant.
Handles	Locking, non locking. Black, White, Silver.
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles. BS 3987:1991 Specification for anodic oxide coatings. BS EN 12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys. BS 4873:2016 Specification for aluminium alloy windows and doorsets. BS EN 14351-1:2006+A2:2016 Windows and doors, performance characteristics. BS EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters. PAS 24:2016 Enhanced security performance requirements for doorsets and windows.



A thermally efficient product designed for installation in schools, offices and commercial buildings where enhanced building regulations and security standards are required. This fully compliant Thermal Commercial Pivot Door is designed for high traffic footfall and tested to PAS24 security standards.

The DDA compliant door system is compatible with the Kestrel Thermal Framing and Window Systems providing commonality of design and an all-in-one solution.

Slimline profiles minimise sight-lines whilst ensuring excellent thermal performance all year round.

PAS24 Configurations

- Single and double door
- Single door access control
- Single door panic hardware

Design Options

- Single and dual colour
- Double and triple glazing
- Manual pivot door
- Automatic pivot or sliding door
- Single or multipoint lock
- Range of DDA compliant thresholds
- Anti-finger-trap stile

TECHNICAL SPECIFICATION

Application	Commercial, new build and refurbishment.	
	Single Door	Double Door
Maximum width	1100mm	2200mm
Maximum height	2500mm	2500mm
Joining	Mechanical	Mechanical
Internally beaded option	Yes	Yes
Glazing options	Will accept insulating glass units and infill panels 28 – 47mm thick.	
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.	
Single or dual colour profiles	Option	
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i> BS 4873:2016 <i>Specification for aluminium alloy windows and doorsets.</i> BS EN 14351-1:2006+A2:2016 <i>Windows and doors, performance characteristics.</i> BS EN ISO 10077-2:2017 <i>Thermal performance of windows, doors and shutters.</i> PAS 24:2016 <i>Enhanced security performance requirements for doorsets and windows.</i>	



A comprehensive Ground Floor Treatment System for application in high traffic buildings such as schools, leisure facilities, retail units and offices.

The modern design, clean lines, ease of fabrication and installation and range of glazing options make this system a popular choice where wide glazing spans are required.

Configurations

- Pivot
- Slide
- Automated
- Rebated
- Single door: open in or open out
- Double door: open in or open out

A comprehensive range of profiles and accessories are available to enable these to be achieved.

Design Options

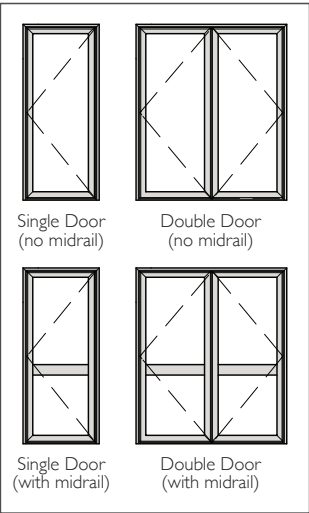
- Single colour powder coated
- Single or double glazed options
- Economy profiles

TECHNICAL SPECIFICATION

Application	Commercial new build and refurbishment.		
	Framing	Single Door	Double Door
Maximum width	*	1100mm	1100mm
Maximum height	*	2500mm	2500mm
Jointing	Mechanical	Mechanical	Mechanical
Internally beaded option	Yes	Yes	Yes
Externally beaded option	Yes	Yes	Yes
Glazing Options - Single glazing	6mm - 11mm	6mm - 11mm	6mm - 11mm
Glazing Options - Double glazing	24mm	24mm - 28mm	24mm - 28mm
U-Value **	3.5 W/m²K	3.5 W/m²K	3.5 W/m²K
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.		
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys</i>		

* Size limitations subject to site conditions.

** Values stated using appropriate glass



The Kestrel Thermal Rebate Door is designed for residential and light commercial use. The suite of profiles will allow construction of single and double door types. The system is internally beaded as default. An externally beaded door leaf could be constructed if required by simply reversing the stiles/rails.

Designed as part of our residential suite of products the rebate door system utilises the same profiles to offer commonality of design. Fixed sidelights or fan lights can be incorporated into the design offering the option for increased ventilation and natural light. The system is suitable for use as either an entrance door to the home or as French doors leading to the garden. Doors can be single or double, opening in or out, to meet the project specification.

Design Options

- Single or dual colour
- Open in or out
- Single or double doors
- Threshold and cill options
- Midrail options
- Hardware to mirror Folding Sliding Door

Performance

- Thermal transmittance: 1.6 W/m²K
- Water tightness: 100 pa
- Air permeability: 300 pa
- Wind resistance: 1200 pa



TECHNICAL SPECIFICATION

Application	Residential new build, refurbishment and light commercial.	
	Single Door	Double Door
Maximum door leaf width	1000mm	1000mm
Maximum door leaf height	2700mm	2700mm
Maximum door leaf weight	100kg	100kg
Jointing	Mechanical	
Internally beaded option	Yes	
Glazing options	Will accept insulating glass units and infill panels 28 – 32mm thick	
U-Value	1.6 W/m ² K	
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.	
Performance	Thermal transmittance: 1.6 W/m ² K Water tightness: 100 pa Air permeability: 300 pa Wind resistance: 1200 pa	
Single or dual colour profiles	Option	
Design standards	BS EN 12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles. BS 3987:1991 Specification for anodic oxide coatings. BS EN 12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys. BS 4873:2016 Specification for aluminium alloy windows and doorsets. BS EN 14351-1:2006+A2:2016 Windows and doors, performance characteristics. BS EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters. PAS 24:2016 Enhanced security performance requirements for doorsets and windows.	

The system is designed to accept, 24mm or 28mm thick (DG) IGU's or infill panels

Technical Specification

Folding Sliding Door System



Designed for both the domestic and commercial market our Folding Sliding Door System is made to bespoke requirements in numerous design configurations.

PAS 24 accredited, the door has been rigorously tested to 25,000 cycles to BS EN 1527. Features include multipoint locking and shoot bolts as standard, and units will accept toughened or laminated safety glass in thicknesses of 24mm-32mm. A low threshold option with a 13mm step can be specified. A choice of slimline handle styles is also available to ensure neat door stacking and effective use of space.

Utilising the popular bottom-hung arrangement for efficient operation, hardware options include nylon or stainless-steel wheels ensuring smooth and consistent operation.

Configurations

- All even/even and even/odd combinations can be specified
- Open in or open out
- Open left, right or split
- Floating external corner
- Floating mullion

Design Features

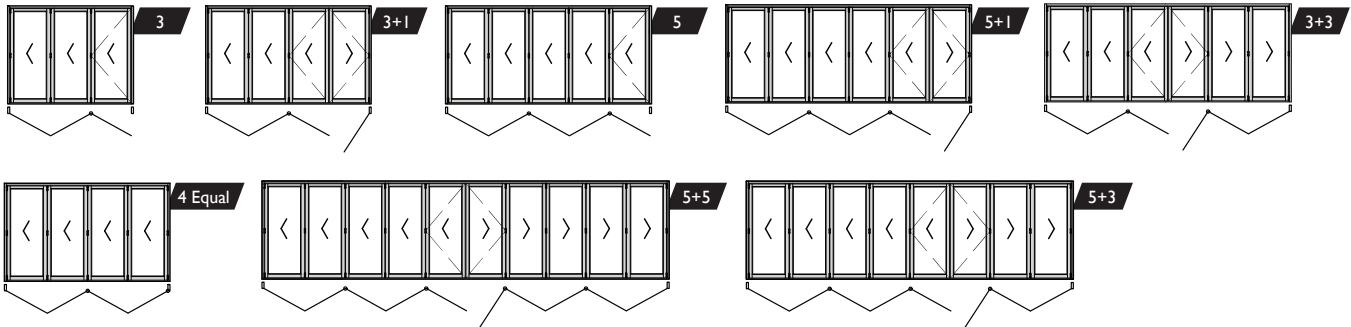
- Single or dual colour powder coating
- Will accept double or triple glazing
- Flush or rebate track
- Bead design options
- Cill size options
- Hardware options*

*Heavy duty hardware only PAS24 accredited.

TECHNICAL SPECIFICATION

Application	Residential new build, refurbishment and light commercial
Maximum door leaf width	1000mm
Maximum door leaf height	2300mm with standard lock
Maximum door leaf height	2700mm with tall door lock KAS538-TDL
Maximum door leaf weight	100kg
Joining	Mechanical
Glazing options	Will accept double or triple IGU and infill panels 24 -32mm thick
Beading	Internal
Cills	Design coordinated to rest of residential range
Thermal performance	Polyamide thermally broken profiles - Document L1A, L1B/L2A, L2B compliant
U-Value	1.6W/m²K
Security	Multi-point dead latch and bolt and lever/lever handset
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles. BS 3987:1991 Specification for anodic oxide coatings. BS EN 12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys. BS 4873:2016 Specification for aluminium alloy windows and doorsets. BS EN 14351-1:2006+A2:2016 Windows and doors, performance characteristics. BS EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters. PAS 24:2016 Enhanced security performance requirements for doorsets and windows.

Configurations (Typical combinations shown. All even/even and even/odd combinations can be specified.)





Creating a link between house and garden has never been easier with our Corner Folding Sliding Door developed from the PAS24 accredited Folding Sliding Door System.

Using a structural steel to support the top of the building, the complete corner of the room can be swept away using the slimline moving corner post to give even greater access to the outdoors.



- Configurations**
- Odd numbers of doors on one side and any amount of even numbers of doors on the other. Doors only open out.
- 1-2/4/6
 - 3-2/4/6
 - 5-2/4/6

- Design Features**
- Single or dual colour powder coating
 - Will accept double or triple glazing
 - Flush or rebate track
 - Bead design options
 - Cill options
 - Hardware colour options

TECHNICAL SPECIFICATION

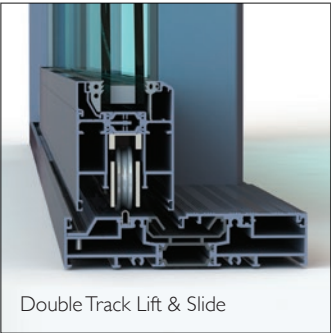
Application	Residential new build and refurbishment.
Maximum door leaf width	1000mm
Maximum door leaf height	2426mm
Minimum door leaf height	1998mm
Maximum door leaf weight	80kg
Glazing options	Will accept double or triple IGU and infill panels 24 -32mm thick
Beading	Internal
Cills	Design coordinated to rest of residential range.
Jointing	Mechanical
U-Value	1.6 W/m²K.
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i> BS 4873:2016 <i>Specification for aluminium alloy windows and doorsets.</i> BS EN 14351-1:2006+A2:2016 <i>Windows and doors, performance characteristics.</i> BS EN ISO 10077-2:2017 <i>Thermal performance of windows, doors and shutters.</i> PAS 24:2016 <i>Enhanced security performance requirements for doorsets and windows.</i>

Technical Specification

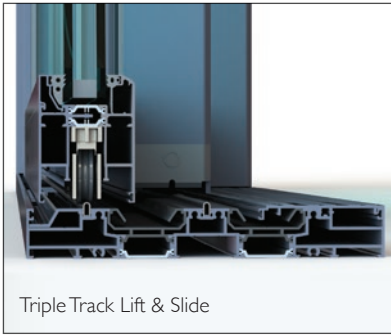
Sliding
Patio Door
System



Inline Sliding Door



Double Track Lift & Slide



Triple Track Lift & Slide



Huge range of colours



Innovative and practical, our Sliding Patio Door System provides an alternative to a set of French or folding sliding doors.

The minimal sightlines create a dramatic removable wall that provides uninterrupted views to the outdoors. Whilst a thermally efficient, security tested door system provides peace of mind that the home is safe and secure.

Design Options

- Double track sliding door
- Double track lift and slide
- Triple track lift and slide
- Single and dual colour powder coated
- Double and triple glazed

Design Benefits

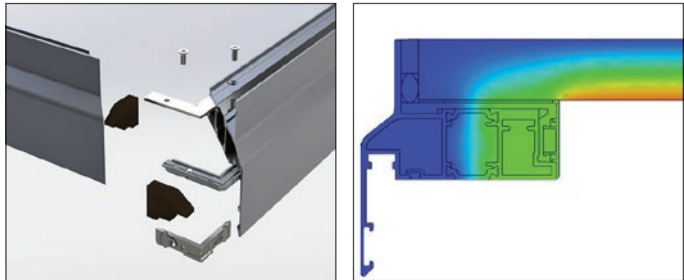
- 106mm interlock
- 111mm outer jamb
- 33mm low threshold
- Soft brake close option
- Integral trickle vents
- Low line gaskets
- PAS24 compliant

TECHNICAL SPECIFICATION

Application	Residential new build, refurbishment and light commercial	
	Inline Sliding	Lift & Slide
Maximum door leaf width	2000mm	2100mm
Maximum door leaf height	2300mm	2500mm
Maximum door leaf weight	200kg	300kg (400kg can be achieved with additional rollers)
Jointing	Mechanical	
Internally beaded	Yes	
Glazing options	Will accept double or triple IGU and infill panels 28 - 42mm thick.	
U-Value	1.6W/m2K.	
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.	
Single or dual colour profiles	Option.	
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i> BS 4873:2016 <i>Specification for aluminium alloy windows and doorsets.</i> BS EN 14351-1:2006+A2:2016 <i>Windows and doors, performance characteristics.</i> BS EN ISO 10077-2:2017 <i>Thermal performance of windows, doors and shutters.</i> PAS 24:2016 <i>Enhanced security performance requirements for doorsets and windows.</i>	

Technical Specification

Flat
Rooflight
System



Ideal for installation in homes and public buildings our Flat Rooflight System offers the opportunity to bring light into living.

Innovative and practical the made to measure Flat Rooflight has been designed to be fabricator friendly and easy to assemble.

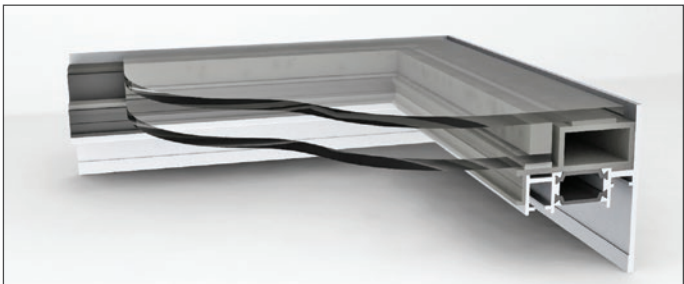
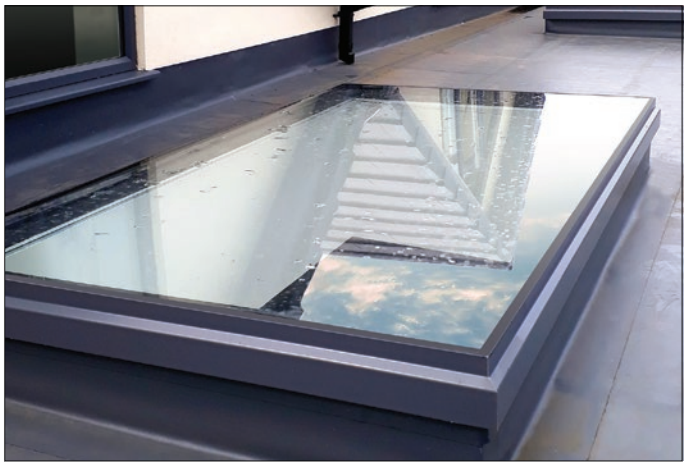
Built bespoke to the size of the opening, using the slim profile, the frame is easy to assemble on sight, making transportation efficient.

Design Options

- Fixed - standard or walk-on
- Ventilation
- Egress

Design Features

- Stepped edge unit
- Flush edge unit
- Minimal glazing bars
- Narrow sightlines
- Dual colour powder coating
- Removeable PCV cassette
- Thermally efficient
- Rafter Bar option available for longer runs of fixed glazing



TECHNICAL SPECIFICATION

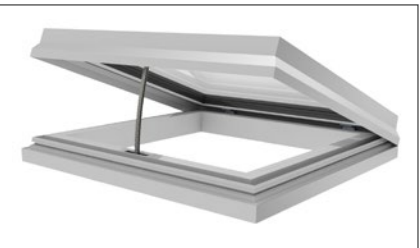
Application	Residential new build, refurbishment and light commercial.	
	28.4mm unit	30.8mm unit
Maximum width	1100mm	1500mm
Maximum length	2500mm	2600mm
Glazing options	28.4mm double glazed unit	30.8mm double glazed unit
Jointing	Mechanical	
U-Value	1.2 W/m ² K (based on fixed version with IGU centre pane 1.1 W/m ² K & upstand 1250mm x 1250mm)	
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.	
Single or dual colour profiles	Option.	
Design standards	BS EN 12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles. BS 3987:1991 Specification for anodic oxide coatings. BS EN 12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys	



Walk-on rooflight



Fixed rooflight



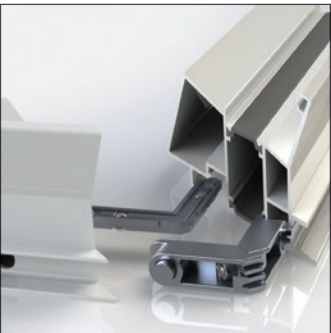
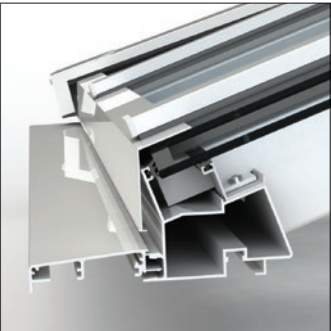
Ventilation rooflight



Egress rooflight

Technical Specification

Lantern
Rooflight
System



Designed for both residential and light commercial applications, our thermally efficient Lantern Rooflight System incorporates a wealth of design options. It is particularly ideal for use in residential properties where it is perfect to complement the outdoor living effect with our folding, sliding door system.

Maximising natural light, this fabricator friendly system has been designed to create a contemporary appearance with low line ridges and round edge glazing bars.

Design Features

- Mechanical jointing
- Corner joints
- Render stop
- Pre-machined glazing and hip bars
- Cills that echo our residential range
- Fixed 20 degree pitch to eliminate compound mitre cuts
- Thermally broken eaves ridges and bars

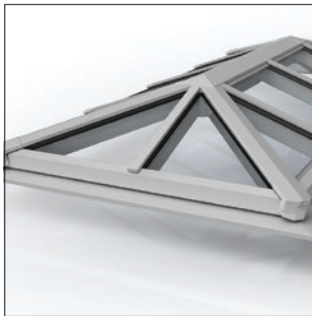
Design Benefits

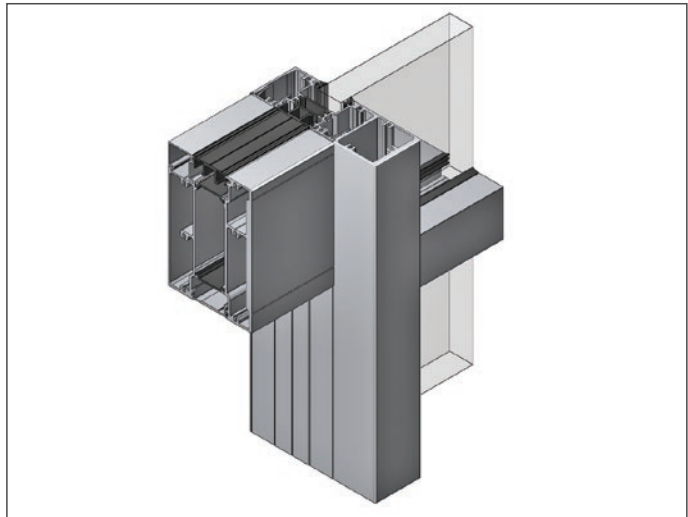
- Secure
- Slim profile
- Ease of transportation
- On-site assembly
- Made to measure
- Thermally efficient



TECHNICAL SPECIFICATION

Application	Residential new build, refurbishment and light commercial.
Maximum width (between upstands)	3700mm
Maximum length (between upstands)	5800mm
Frame profiles	40mm slimline glazing bars.
Glazing options	24 - 32mm double glazed units.
Pitch (fixed)	20°
Cills	Design coordinated to rest of residential range.
Jointing	Mechanical
Thermal performance	Polyamide thermally broken profiles.
U-Value	1.66 W/m²K.
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.
Single or dual colour profiles	Option.
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i>





For application in schools, retail buildings and public buildings where high thermal performance is required. The Thermal Framing System is a secure and cost effective method of glazing.

Designed to be integrated with the Kestrel window and door suites, the system offers commonality of design to give a uniform aesthetic.

This flexible solution for low rise buildings ensures high thermal performance and meets the required building regulations.

Design Options

- Single or dual colour powder coated
- Double or triple glazing
- Solid infill panels
- Profiles can be shaped
- Heavy duty mullion for larger spans
- Auto header section
- Corner post



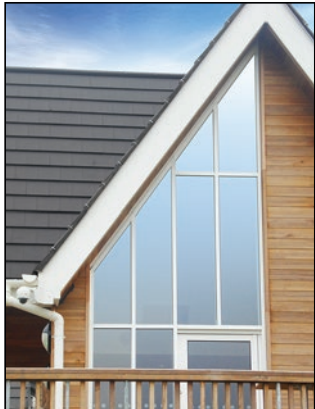
TECHNICAL SPECIFICATION

Application	Commercial new build and refurbishment.
Maximum Frame Width	To be calculated in accordance with individual site conditions.
Maximum Frame Height	To be calculated in accordance with individual site conditions.
Joining	Mechanical
Internally Beaded Option	Yes
Externally Beaded Option	Yes
Glazing options	Will accept double or triple IGU and infill panels 28 – 32mm thick.
U-Value	1.6 W/m²K. *
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i>

*Values stated achieved using centre pane unit of 1.2 W/m²K.

Technical Specification

Curtain Walling System



Providing thermal and weather performance the Kestrel Aluminium low rise Curtain Walling system is designed to offer a flexible solution to façade cladding.

The profiles can be used to create a flat, facettted, curved or angled façade using mullion and transom designs.

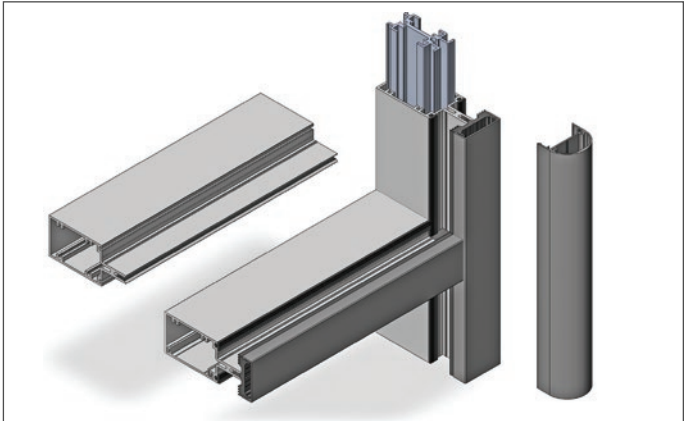
Ideal for installation in public buildings, offices, leisure facilities and domestic applications, curtain wall maximises natural light in common areas and creates impressive building façades. Compatible with Kestrel window and door systems, the suite provides a complete glazing solution for refurbishment and new build buildings and dwellings.

Design Options

- Slim 50mm sight lines
- 75, 100 or 125mm box & plate sections
- 50, 75, 100, 125, 150 or 175mm solid box sections
- Bull nose, aero or flat capping options
- Co-extruded pressure plate
- Reinforcement profiles
- Compatible roofing system

Performance

- Air permeability: 600Pa
- Water ingress: 600Pa
- Wind resistance: Serviceability - 1500Pa
- Wind resistance: Static - 2250Pa



TECHNICAL SPECIFICATION

Application	Residential and commercial - new build and refurbishment.
Maximum height	To be calculated in accordance with individual site conditions.
U-Value	To be calculated in accordance with individual site conditions
Jointing	Mechanical corner and transom / mullion jointing.
Glazing options	Insulated Glass Units or composite panels: 24mm, 28mm and 30mm thick. Single glazed variants: 6mm, 6.4mm, 8.8mm, 10mm, 10.8mm, 14mm, 17mm and 19mm thick.
Performance	Water ingress 600Pa Air permeability 600Pa Wind resistance - serviceability - 1500Pa Wind resistance - static - 2250Pa
Finishes	Mill finish. Etched and anodised Silver AA25 or colours on request. Polyester powder coat paint. See separate list for standard colour range available.
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001 <i>Aluminium and aluminium alloys, extruded precision profiles.</i> BS 3987:1991 <i>Specification for anodic oxide coatings.</i> BS EN 12206-1:2021 <i>Paints and varnishes, coating of aluminium and aluminium alloys.</i> BS EN 13830:2015+A1:2020 <i>Curtain walling - product standard.</i> CWCT & BS EN 13830 <i>Test data.</i>

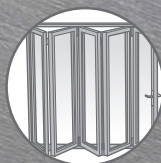


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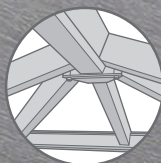
Tel: **0121 333 3575** • Fax: **0121 333 5335** • Email: **info@kestrelaluminium.co.uk**



WINDOWS



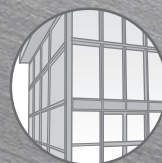
DOORS



ROOFING



SHOPFRONT



CURTAIN WALL

www.kestrelaluminium.co.uk



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