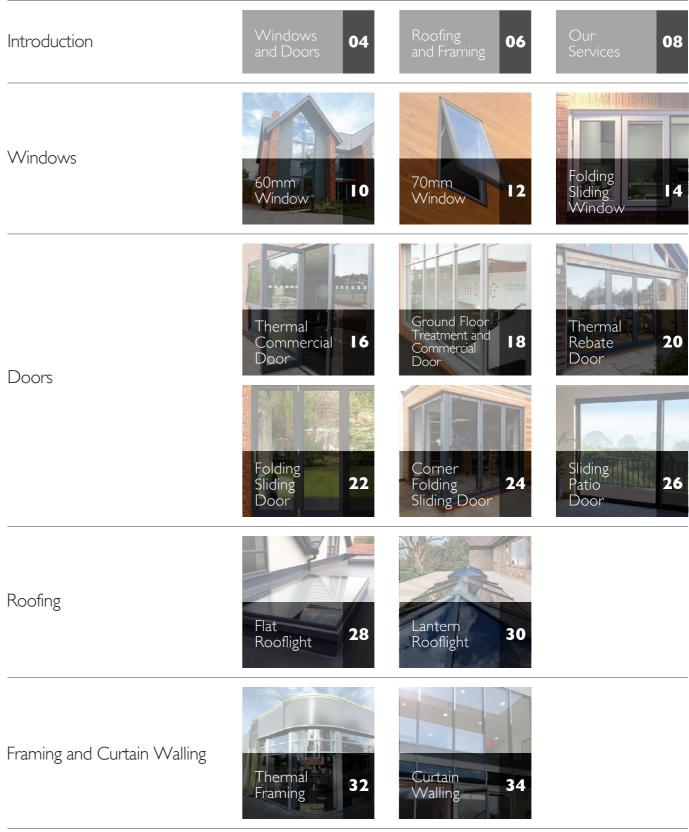
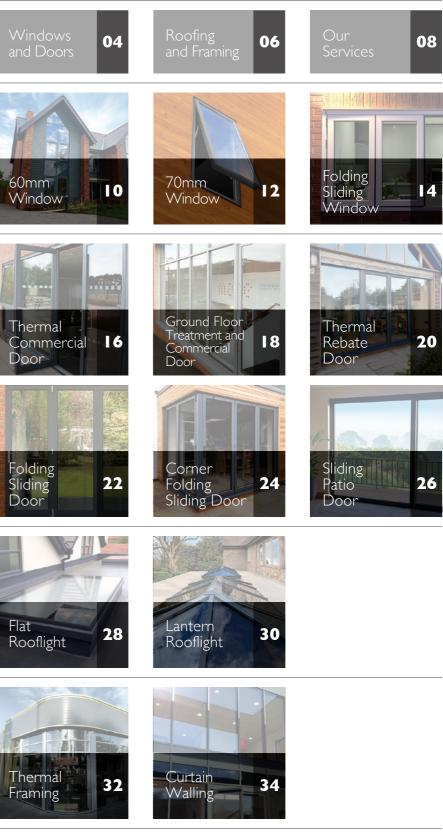


KESTREL SYSTEMS TECHNICAL SPECIFICATIONS

KAS730

Kestrel Systems Technical Specifications / Contents







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.















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 jointing system makes site assembly possible meaning transportation and manual handling of the materials onto the roof become easier.



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

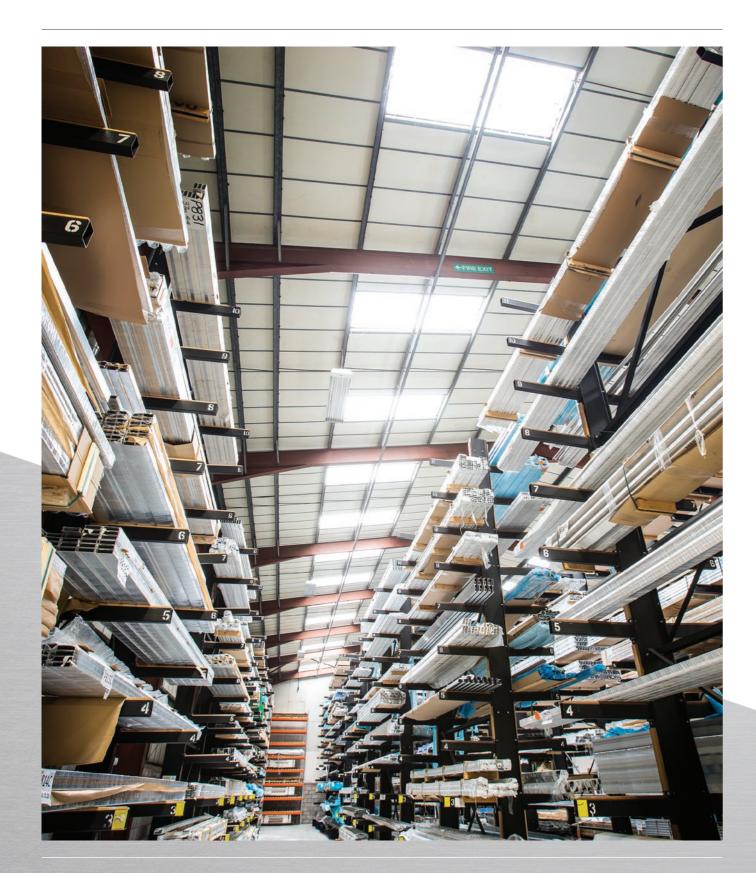


CURTAIN WALLING

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.

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.





FINISHES











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.

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.

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

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

TECHNICAL SPECIFICATION Residential new build, refurbishment and light commercial. Window types Casement 1000mm Maximum window opening width* Maximum window opening height* 2000mm** Internally beaded option Yes Externally beaded option Yes U-Value (using BS EN 14351 window arrangement) 1.7/WERC Thermal performance Range of options including one piece polyamide. Mechanical corner and transom / mullion jointing. Will accept double or triple IGU and infill panels 28 - 32mm thick. Glazing options Performance Water ingress 600Pa Air permeability 600Pa Wind resistance 2000Pa

Finishes

Cills

Jointing

Application

	Polyester powder coa
Single or dual colour profiles	Option
Trickle vents	Standard or slimline
Handles	Locking , non locking.
Security	Multi-point bi-part es
Design standards	BS EN 12020-2:2001
	BS 3987:1991 Specific
	BS EN 12206-1:2021
	BS 4873:2016 Specific
	BS EN 14351-1:2006

* Subject to use of appropriate hardware and site conditions.

* * With Sterling hinges

Open out casement (top, bottom or side-hung), pressure fit, parallel opening, tilt before turn.

Pressure Fit	Parallel Opening	Tilt Before Turn
1000mm	1500mm	1600mm
2000mm**	2200mm	1800mm
No	Yes	Yes
Yes	No	No
1.7 W/m2K	1.7 W/m2K	I.7/WERC

Polyamide thermally broken profiles - Document LIA, LIB/L2A, L2B compliant.

Mill finish.

Safety requirement 3000Pa

Etched and anodised Silver AA25 or colours on request.

ter powder coat paint. See separate list for standard colour range available.

ng , non locking. Black, White, Silver.

point bi-part espagnolette locking. PAS24 compliant.

12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles.

87:1991 Specification for anodic oxide coatings.

12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys.

73:2016 Specification for aluminium alloy windows and doorsets.

14351-1:2006+A2:2016 Windows and doors, performance characteristics.

BS EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters.

Technical Specification 70 mmWindow 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 1600
- Water tightness: 600Pa
- Class 4 Air permeability:
- Class C4 Wind resistance:
- Safety requirement: 2400Pa

TECHNICAL SPECIFICATION-Application Residential new build, refurbishment and light commercial. Window types Open out casement (top or side-hung), fixed light. Side hung 1000mm • Top hung 1000mm Maximum window opening width* Side hung 1500mm • Top hung 1200mm Maximum window opening height* Profiles 70mm deep. 43mm sightlines on fixed profiles. Frame profiles Odd leg, Curtain Wall. Corner posts 90° and 135° Cills Range of options including one piece polyamide. Mechanical corner and transom/mullion jointing. Jointing Thermal performance U-Value As low as 1.2 W/m²K. Window tested to UK exposure category 1600 Performance 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. 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. Child and Health Care. Opening restrictors Design standards BS 3987:1991 Specification for anodic oxide coatings.

* Subject to use of appropriate hardware and site conditions.

Polyamide thermally broken profiles - Document L1A, L1B/L2A, L2B compliant.

Polyester powder coat paint. See separate list for standard colour range available.

BS EN 12020-2:2001 Aluminium and aluminium alloys, extruded precision profiles.

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.









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,
Maximum window opening width	1000mm
Maximum window opening height	2700mm
Jointing	Mechanical
Glazing options	Will accept double or
Beading	Internal
Cills	Design coordinated to
Thermal performance	Polyamide thermally b
U-Value	1.6W/m2K
Security	Multi-point bi-part esp
Handles	Locking, non locking. B
Finishes	Mill finish.
	Etched and anodised S
	Polyester powder coat
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001
	BS 3987:1991 Specifico
	BS EN 12206-1:2021 /
	BS 4873:2016 Specifico
	BS EN 14351-1:2006+
	BS EN ISO 10077-2:20
	PAS 24:2016 Enhanced

d, refurbishment and light commercial.

or triple IGU and infill panels 28 – 32mm thick.

to rest of residential range.

broken profiles - Document LIA, LIB/L2A, L2B compliant.

spagnolette locking, PAS24 compliant.

Black, White, Silver.

d Silver AA25 or colours on request.

pat paint. See separate list for standard colour range available.

I Aluminium and aluminium alloys, extruded precision profiles.

ication for anodic oxide coatings.

I Paints and varnishes, coating of aluminium and aluminium alloys.

ication for aluminium alloy windows and doorsets.

6+A2:2016 Windows and doors, performance characteristics.

2017 Thermal performance of windows, doors and shutters.

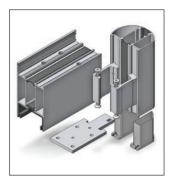
ced security performance requirements for doorsets and windows.

Technical Specification

Thermal Commercial Door System











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

Application	Commercial, new build and refurbishment.		
	Single Door	Double Door	
Maximum width	1100mm	2200mm	
Maximum height	2500mm	2500mm	
Jointing	Mechanical	Mechanical	
Internally beaded option	Yes	Yes	
Glazing options	Will accept insulating glass units an	Id 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 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.		

TECHNICAL SPECIFICATION

18 / 36

Technical Specification Ground Floor Treatment and Commercial

Door System











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

Application	Commercial new build	Commercial new build and refurbishment.		
	Framing	Single Door	Double Door	
Maximum width	*	I I 00mm	l I 00mm	
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/m ² K	3.5 W/m ² K	3.5 W/m ² K	
Finishes	Mill finish.	Mill finish.		
	Etched and anodised Si	Etched and anodised Silver AA25 or colours on request.		
	Polyester powder coat	Polyester powder coat paint. See separate list for standard colour range available.		
Design standards	BS EN 12020-2:2001 A	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 allovs			

* Size limitations subject to site conditions.

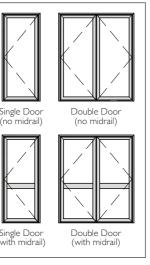
** Values stated using appropriate glass

TECHNICAL SPECIFICATION

BS EN 12206-1:2021 Paints and varnishes, coating of aluminium and aluminium alloys







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.

The Kestrel Thermal Rebate Door is designed for

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
- 100 pa • Water tightness: 300 pa
- Air permeability:
- 1200 pa • Wind resistance:

Application	Residential new build, i
	Single Door
Maximum door leaf width	1000mm
Maximum door leaf height	2700mm
Maximum door leaf weight	l OOkg
Jointing	Mechanical
Internally beaded option	Yes
Glazing options	Will accept insulating g
U-Value	I.6 W/m ² K
Finishes	Mill finish.
	Etched and anodised S
	Polyester powder coat
Performance	Thermal transmittance
	Water tightness: 100 p
	Air permeability: 300 p
	Wind resistance: 1200
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001
	BS 3987:1991 Specifico
	BS EN 12206-1:2021
	BS 4873:2016 Specifico
	BS EN 14351-1:2006+
	BS EN ISO 10077-2:20

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



TECHNICAL SPECIFICATION-

, refurbishment and light commercial.

Double Door
1000mm
2700mm
l 00kg

glass units and infill panels 28 – 32mm thick

Silver AA25 or colours on request.

at paint. See separate list for standard colour range available.

e: 1.6 W/m²K

) da

Aluminium and aluminium alloys, extruded precision profiles.

cation for anodic oxide coatings.

Paints and varnishes, coating of aluminium and aluminium alloys.

cation for aluminium alloy windows and doorsets.

+A2:2016 Windows and doors, performance characteristics.

2017 Thermal performance of windows, doors and shutters.

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.

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

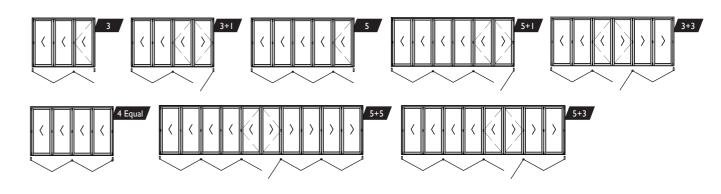
- Single or dual colour powder coating
- Will accept double or triple glazing
- Flush or rebate track
- Bead design options
- Cill size options
- Hardware options*

*Heavy duty hardware only PAS24 accredited.

TECHNICAL SPECIFICATION-

Application	Residential new build
Maximum door leaf width	1000mm
Maximum door leaf height	2300mm with standa
Maximum door leaf height	2700mm with tall do
Maximum door leaf weight	100kg
Jointing	Mechanical
Glazing options	Will accept double o
Beading	Internal
Cills	Design coordinated t
Thermal performance	Polyamide thermally I
U-Value	1.6W/m ² K
Security	Multi-point dead latcl
Finishes	Mill finish.
	Etched and anodised
	Polyester powder coa
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001
	BS 3987:1991 Specific
	BS EN 12206-1:2021
	BS 4873:2016 Specific
	BS EN 14351-1:2006
	BS EN ISO 10077-2:2
	PAS 24:2016 Enhance

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



d, refurbishment and light commercial

lard lock

oor lock KAS538-TDL

or triple IGU and infill panels 24 -32mm thick

to rest of residential range

v broken profiles - Document LIA, LIB/L2A, L2B compliant

ch and bolt and lever/lever handset

d Silver AA25 or colours on request.

oat paint. See separate list for standard colour range available.

Aluminium and aluminium alloys, extruded precision profiles.

fication for anodic oxide coatings.

Paints and varnishes, coating of aluminium and aluminium alloys.

fication for aluminium alloy windows and doorsets.

6+A2:2016 Windows and doors, performance characteristics.

2:2017 Thermal performance of windows, doors and shutters.

ced security performance requirements for doorsets and windows.









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
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
Beading	Internal
Cills	Design coordinated to
Jointing	Mechanical
U-Value	1.6 W/m ² K.
Finishes	Mill finish.
	Etched and anodised S
	Polyester powder coat
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001
	BS 3987:1991 Specifice
	BS EN 12206-1:2021
	BS 4873:2016 Specifica
	BS EN 14351-1:2006+
	BS EN ISO 10077-2:2
	PAS 24:2016 Enhanced

and refurbishment.

r triple IGU and infill panels 24 -32mm thick

to rest of residential range.

Silver AA25 or colours on request.

at paint. See separate list for standard colour range available.

Aluminium and aluminium alloys, extruded precision profiles.

cation for anodic oxide coatings.

Paints and varnishes, coating of aluminium and aluminium alloys.

cation for aluminium alloy windows and doorsets.

+A2:2016 Windows and doors, performance characteristics.

2017 Thermal performance of windows, doors and shutters.

ed security performance requirements for doorsets and windows.





Inline Sliding Door



Triple Track Lift & Slide

Huge range of colours

Double Track Lift & Slide



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

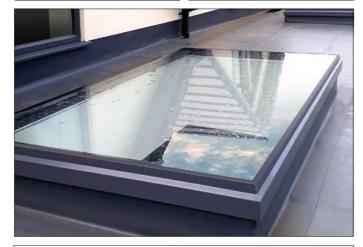
Application	Residential new build, refurbishment and light commercial		
	Inline Sliding	Lift & Slide	
Maximum door leaf width	2000mm	2100mm	
Maximum door leaf height	2300mm	2500mm	
Maximum door leaf weight	200kg	300kg (400kg can be achieved with additional rollers)	
Jointing	Mechanical		
Internally beaded	Yes		
Glazing options	Will accept double or triple IG	5U 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 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.		

TECHNICAL SPECIFICATION-

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

Egress rooflight

Fixed rooflight





Ventilation 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 oudoor 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,
Maximum width (between upstands)	3700mm
Maximum length (between upstands)	5800mm
Frame profiles	40mm slimline glazing
Glazing options	24 - 32mm double gla
Pitch (fixed)	20°
Cills	Design coordinated to
Jointing	Mechanical
Thermal performance	Polyamide thermally b
U-Value	1.66 W/m ² K.
Finishes	Mill finish.
	Etched and anodised
	Polyester powder coa
Single or dual colour profiles	Option.
Design standards	BS EN 12020-2:2001
	BS 3987:1991 Specific
	BS EN 12206-1:2021





d, refurbishment and light commercial.

ng bars.

glazed units.

to rest of residential range.

broken profiles.

d Silver AA25 or colours on request.

pat paint. See separate list for standard colour range available.

Aluminium and aluminium alloys, extruded precision profiles.

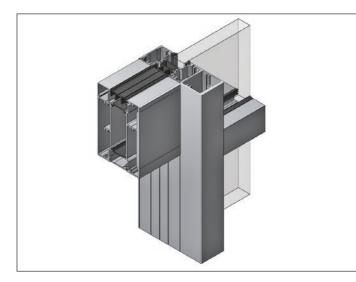
fication for anodic oxide coatings.

I Paints and varnishes, coating of aluminium and aluminium alloys.











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
Maximum Frame Width	To be calculated in acc
Maximum Frame Height	To be calculated in acc
Jointing	Mechanical
Internally Beaded Option	Yes
Externally Beaded Option	Yes
Glazing options	Will accept double or
U-Value	1.6 W/m ² K. *
Finishes	Mill finish.
	Etched and anodised S
	Polyester powder coat
Single or dual colour profiles	Option
Design standards	BS EN 12020-2:2001 /
	BS 3987:1991 Specifico
	BS EN 12206-1:2021 /

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

ild and refurbishment.

ccordance with individual site conditions.

ccordance with individual site conditions.

or triple IGU and infill panels 28 – 32mm thick.

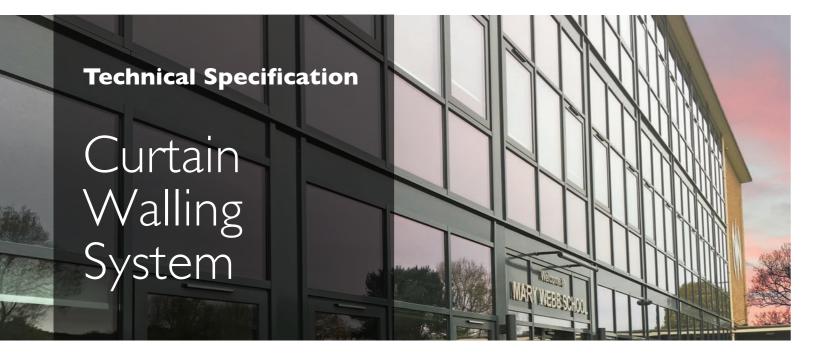
d Silver AA25 or colours on request.

bat paint. See separate list for standard colour range available.

Aluminium and aluminium alloys, extruded precision profiles.

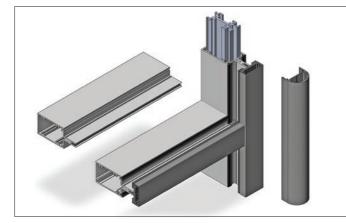
ication for anodic oxide coatings.

Paints and varnishes, coating of aluminium and aluminium alloys.









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, facetted, 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:
- Serviceability 1500Pa • Wind resistance:

600Pa

 Wind resistance: Static - 2250Pa

Application Maximum height U-Value Jointing Glazing options Performance Water ingress 600Pa Air permeability 600Pa Wind resistance - serviceability - 1500Pa Wind resistance - static - 2250Pa Finishes Mill finish Single or dual colour profiles Option Design standards

TECHNICAL SPECIFICATION-

- Residential and commercial new build and refurbishment.
- To be calculated in accordance with individual site conditions.
- To be calculated in accordance with individual site conditions
- Mechanical corner and transom / mullion jointing.
- 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.
- Etched and anodised Silver AA25 or colours on request.
- Polyester powder coat paint. See separate list for standard colour range available.
- 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 EN 13830:2015+A1:2020 Curtain walling product standard.
- CWCT & BS EN 13830 Test data.



Kestrel Aluminium Systems Ltd

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













DOORS

ROOFING

SHOPFRONT

CURTAIN WALL

www.kestrelaluminium.co.uk



We operate a continuous development programme and we reserve the right to amend specification without prior notification. Please contact the technical department for further information. All copyright, trademarks and registered design rights for the products detailed in this brochure are the property of Kestrel Aluminium Systems Ltd.

