axis Automatic Entrance Systems

KESTREL ALUMINIUM SYSTEMS

Curtain Wall

& ALUMINIUM SHOPFRONT SYSTEMS

KESTREL LOW RISE CURTAIN WALL SYSTEM

Is an economic and aesthetically pleasing solution to façade cladding. The system is suitable for use on all buildings where good thermal and weather performance is required, and is suitable for low rise applications up to 20m tall.

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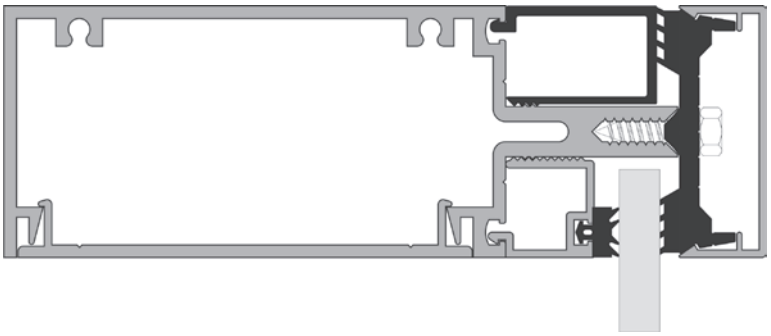
CURTAIN WALL SYSTEMS

The range of profiles is based around 75mm, 100mm and 125mm mullion and transom designs, plus a 50mm box transom accompanied by purpose designed ancillary items required of a high performance curtain wall system.
The choice of profile sizes and frame design is determined by the expected exposure to local wind pressures.



Curtain Wall cross-section

The system can accommodate 6mm, 6.4mm 8.8mm, 10mm, or 10.8mm single glass units or panels with the use of aluminium adaptors and gasket variations, and 24mm or 28mm double glass units or panels. Vents made using the KAS 269 Curtain Wall Vent Outer Frame (from the 50mm Window Suite) can be fitted in the same way as a 24mm glass unit.
The system is designed for pressure equalised zone drainage, which is achieved with drained and ventilated glazing rebates. Infills are retained with rigid PVC pressure plates incorporating co-extruded weather seals. Inner seals are made from EPDM, and are also available as vulcanised corner components.

PERFORMANCE: WEATHER

The Kestrel system has been independently tested by a UKAS certified body in accordance with the CWCT test method for Curtain Walling.

CWCT Section 4	Air Permeability	600 pa
CWCT Section 5	Watertightness, Static	600 pa
CWCT Section 8	Wind Resistance, Servicability	1500 pa
CWCT Section 9	Wind Resistance, Safety	2250 pa

PERFORMANCE: THERMAL

Profiles have been independently modelled and assessed in accordance with BS EN ISO 10077-2. Full details are available for inspection on request

Curtain wall sections are designed to carry self weight, glass weight, wind pressures and other imposed loads.A curtain wall mullion must NEVER be used as a primary structural member within the building, or have loads designed for the primary structure transferred to the curtain wall grid.

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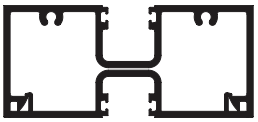
ALUMINIUM SHOPFRONT SYSTEMS

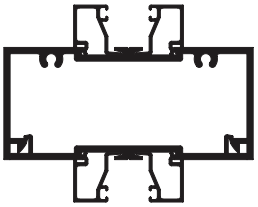
The Shopfront system has profiles to suit both flush glazed and bead glazed applications, or a mix of the two. The standard dimensions are 100mm front to back and 45mm wide, with some sections having a width of 50mm or 100mm. The typical wall thickness of this system is 2.5mm. 3D frames can be achieved with the 90 degree and 135 degree corner posts, or with custom pressings for other angles.



FLUSH GLAZED

The flush glazed system has two different pocket widths to take a range of glass units or panels between 6mm and 24mm thick. The pocket profiles enable 'shuffle glazing' of the shopfront frame.

KAS 1/4 to suit SGUs



BEAD GLAZED

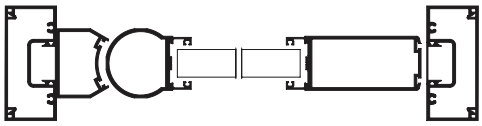
The bead glazed system can accommodate glass units or panels up to 28mm thick by varying the beads used.

KAS 51/52 with KAS 15 beads

DOORS

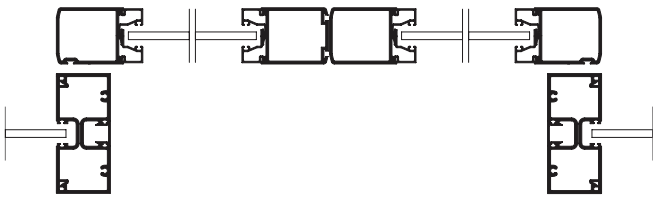
The Doors system is suitable for fabricating many types of swing and sliding doors, and can be used in conjunction with both the Shopfront and Curtain Wall systems. The standard dimension is 45mm front to back, with multiple sizes of rails and stiles. The stiles include woolpile carrying versions to provide draught-proof seals. The typical wall thickness of this system is 2.5mm.
The doors are bead glazed and can accommodate glass units or panels up to 28mm thick by varying the beads used. There are several low threshold sections to choose from. Sections are also available for making louvre panelled doors.

SWING DOORS



Anti-finger trap stiles are available for swing or pivot doors, meeting the stricter regulations now in force. Transom closer profiles are used to house and conceal the door closers, and form part of the frame. Rebated infils and thresholds allow for the construction of hinged doors. Swing doors can also be automated.

SLIDING DOORS



The Doors system can be used for both manual and automated sliding doors, including telescopic doors. Manual sliding doors are guided by top and bottom track sections. Automated sliding doors will typically have a reinforced top rail, allowing them to be safely suspended from the gear.

WINDOWS

All of our window systems have a thermal break option. The thermally broken profiles meet current Document L requirements when glazed with argon gas filled K glass sealed units with warm edge spacer. Universal window profiles and components include sub-cills with varying projection, cill end-plates, Coupling Bars, and Weather Bars.

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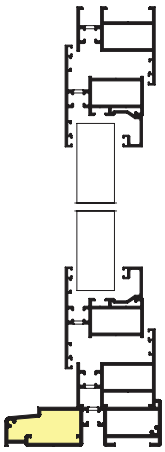
50MM WINDOW SUITE

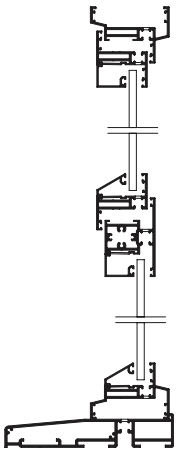
The 50mm Casement Window System is designed for intermediate commercial applications and is internally glazed. Composite windows can be produced with the use of adaptor frames. The system can accommodate 6mm or 6.4mm glass and 24mm or 28mm sealed units. Handles for use with espagnolette slide bar locking can be used as can cockspur locking handles. A range of friction hinges are available including non-restrictor, restricted, and Sterling heavy duty.



50mm Window Suite

45MM WINDOW SUITE

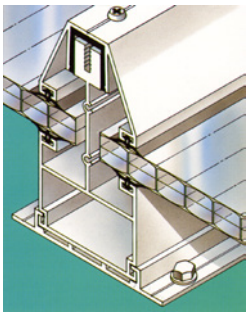
The 45mm Casement Window System is suitable where narrow lines and economy are desired. The system is externally glazed. It can accommodate single glass up to 6.4mm thick and sealed units up to 24mm thick. Available hardware includes cockspur locking handles, non-restrictor and restricted friction hinges.



45mm Window Suite

GLAZING BARS

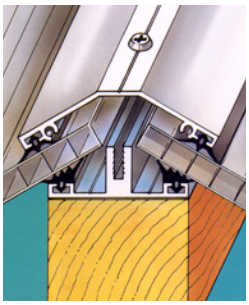
The Glazing Bar system has been designed for both the commercial and domestic markets, and conforms to BS5516 (British Standard Code of Practice for patent glazing). The system can be used with all popular fills including 6mm glass, multi-wall polycarbonate sheet, and double glazed units. The gaskets are designed to ensure the fills are sealed even when glazed at an angle.
Glazing bar caps are sloping or square in profile, and have standard and thermally broken versions. The thermal barrier is created by using a PVC-U section that clips into the cap. Thermal efficiency can also be improved by clipping a PVC-U section to the underside of the glazing bars.
The accessories include aluminium closure sections for multi-wall plastic sheet, end plates, eaves fillers, end fillers, and adjustable wall-plates, and acetal-headed stainless steel screws.



Glazing Bar Example

RAFTER GLAZING BARS

The inexpensive rafter glazing bars can be used unsupported over short spans or as a glazing medium on timber framed structures, fitting 50mm wide timber. The cap can be used with either the aluminium base or the rubber rafter gasket. Both combinations are suitable for 6mm glass, multi-wall polycarbonate sheet, and double glazed units. Acute angles can be accommodated by using the hip cap and hip gasket to ensure an effective seal.



Rafter Bar Example

AUTOMATIC DOORS

To compliment the Curtain Wall & Aluminium Shopfront Systems, we offer a range of heavy duty and durable Stanley Automatic Door products. The automatic entrances can integrated into the aluminium system. They will be designed to suit your needs and meet the requirements of BS EN 16005 2012 (Powered Operated Pedestrian Doorsets - Safety in Use).

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Axis Automatic Entrance Systems Ltd
Unit 6, Queens Park Industrial Estate, Studland Road,
Northampton, NN2 6NA.
Tel: 01604 212500 · Fax 01604 212495
Email: sales@axisautomatic.com
www.axisautomatic.com

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