Smart Systems
The Company

Unique among systems companies is the internationally renowned Aliplast Group which has a turnover in excess of £200 million and employs 1300 people worldwide. Established in 1984 with its headquarters in Lokeren, Belgium, Aliplast is an aluminium systems company that has significant investment in firms located in France, China, Poland, Egypt and in the United Kingdom Smart Systems is the representative member of the group.

Smart Systems has over the past 25 years grown to become one of the UK’s leading systems company with a reputation for product innovation, design expertise, technical competence and quality.

Located in Yatton, North Somerset, in its impressive modern 120,000 sq ft purpose built offices, warehouse and manufacturing plant the company has an annual turnover of £28 million and employs in excess of 100 people.

National Distribution Service

Smart Systems has a national distribution service with its own dedicated transport fleet of lorries making daily deliveries to its network of reputable fabricators and installers throughout the United Kingdom.

The Product Range

The company has an extensive range of products which are held in bar lengths and are available ex-stock. The product range includes casement windows that are externally or internally beaded, open-in/open-out; other windows with various opening facilities i.e. tilt/turn, projecting, fully reversible, pivot, sliding and heavy duty; doors that are commercial hinged, commercial swing, patio, slide folding, multi-track slide and automatic; glazed screen/shopfront; curtain walling; roof glazing and conservatories. The products are available as thermal break or non-thermal break aluminium and aluminium/PVC-U composite. There is also a specifically designed thermally broken direct replacement for steel windows. It incorporates slim sightlines and an appearance inspired by the traditional old style steel window. It is ideal for listed buildings and replica refurbishment projects where planning constraints are to be considered.

Website

For further information about our company, comprehensive product range and manufacturing facilities please visit our website at:

www.smartsystems.co.uk
Design Expertise
Our team of technically competent designers use current CAD technology to produce innovative design solutions for specific markets.
Comprehensive technical manuals and data sheets giving full details of each system, including sections, components, drawings and fabrication details are available.

Assurance of Quality
Smart Systems is committed to high standards of quality and workmanship. In our view quality implies consistency, reliability and durability in terms of materials, product performance and service; quality equates with risk reduction – not just for our company but also for all our customers. It is for these reasons that we fully support independent certification and assessment schemes run by the BSI and BBA.

The Markets
Smart Systems offer a range of purpose designed products suitable for new buildings or refurbishment projects in the **architectural**, **commercial**, **public**, **new build** and **retail markets**.

Technical Sales
Our highly experienced team of Technical Sales personnel are available to assist and work closely with architects, specifiers, fabricators and installers on projects from inception of design through to fabrication and installation.

Training Facilities
The company has a designated workshop/training facility where product training is offered to its fabricators and other relevant individuals engaged within the industry. Smart Systems currently offer training courses to NVQ Standards.

Smart Systems are BS EN ISO 9001:2000 registered.
<table>
<thead>
<tr>
<th>Product Type</th>
<th>Application</th>
<th>Material</th>
<th>Performance</th>
<th>Locking</th>
<th>Hardware</th>
<th>Frame</th>
<th>Joining</th>
<th>Quick Glance</th>
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<tbody>
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<td>Alltherm 47 ETC</td>
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Important Note:
The information contained in the above product finder is for guidance only. It should be read in conjunction with our technical manuals. The performance parameters may not be applicable to all designs. You should consult your supplier before finalising your designs.
Smart Systems

Environmental Policy

Smart Systems are committed to working towards a greener working environment and to ensuring that every aspect of our activities is conducted in accordance with sound environmental practices.

We plan to achieve this by:

- Minimising the consumption of natural resources and energy, whilst consuming material goods in moderation. We are resolved to use aluminium billets containing 30% re-cycled aluminium in our extrusion presses. Globally this will assist in reducing the demand for energy as the recycling process for aluminium requires only 5% of the energy necessary to create primary aluminium.

- Reducing the creation of waste through the adoption of improved operating practices and by the recycling of materials whenever practical. By bringing our entire production all under one roof and by investing in on-site extrusion, painting and rolling facilities we aim to reduce the journeys our transport fleet make by 500,000 miles per year. We have instigated company wide recycling initiatives for all waste paper, cans and plastic.

- Investing in the development of new products and modern processes/production facilities that have an improved performance regarding their impact on the environment. This means using the most efficient technology available thus enabling us to reduce wastage and cut out harmful industrial emissions.

- Making sure that all waste and effluent is disposed of in a safe and responsible manner.

- Ensuring that our company complies with environmental legislation.

- Monitoring our progress towards the achievement of our aims for a greener working environment.

Our objective is to promote among our staff, customers, suppliers and stakeholders an understanding of environmental issues in the context of our business. Our common task is to ensure that we continually improve the environmental impact of our total global activities.

This policy is recognition, by the company, of its responsibility towards safeguarding the environment and we publish this statement as a commitment by both management and employees to minimising the environmental impact of its operations.

E. Robinson
Managing Director
The **MC Wall** is a curtain wall system designed to create a dramatic but practical façade, with the option of sloped and facet-shaped glazing whilst allowing maximum light into small or large multi-storey buildings. Rapid on-site installation and concealed transoms, for seamless/uninterrupted glass to glass joints, are among the many special features of this versatile polyamide thermal break system. The system incorporates a top hung frameless vent and also accommodates all Smarts windows, doors and horizontal sliders.

**SC Frame** is a curtain wall system designed for low to medium rise façades including large shopfronts and showrooms and accommodates a wide range of Smarts windows and doors. Rapid on-site installation is facilitated by the method of construction i.e. in ladder frames in the factory.
MC Wall

Trade Name

Trade Name

Building applications

Suitable for small and large multi-storey office buildings. Mullion and transom depths to suit design construction and structural requirements. Sloped glazing possible, straight and slightly facet-shaped vertical glass walls.

Special features

Rapid on-site installation using stainless pin joints to connect transoms to mullions. Transom profiles have dedicated polyamide thermal break. Concealed transoms thereby giving glass to glass joints.

Materials

Aluminium alloy 6060/6063 T5/T6 in condition F22 to RBN P21-001 and DIN 1725

Co-extruded profiles to DIN 7663, TV 110

NFP 85101, ISO 3994

Thermal break: polyamide strips PA 6.6.

25% reinforced with glass fibre

Seals: EPDM to DIN 7663, TV 110

NFP 85101, ISO 3994

Finish

Pewter powder coat to BS 6496/6496-2/6496-3/6496-4/6496-7/6496-8

Anodised satin or bronze colours with

EWKA/TURAS-Dualcoat quality label

Dual colour available

Profile width

55mm

Depth of frame

79mm – 250mm

Glass

Glazing options from 24mm to 33mm and single glazing

Sash inserts

MC Wall top hung frameless vent. Accommodates all Smarts windows, doors and horizontal sliders.

Weather performance

Tests conducted in accordance with BS 5220

Complies with Doc I, for thermal transmittance

Test Report available on request
This curtain wall system was designed to provide optimum thermal performance and for ease of installation. It offers the facility to be finished externally with several decorative beads. In addition to traditional front walls with horizontal and vertical protruding lines, this system can also be used to construct a semi-structural front wall, with the outside front wall showing only vertical protruding cover caps. Tanagra offers straight and slightly facet-shaped vertical glass walls and is suitable for small and large office buildings.
# CURTAIN WALL

## Tanagra

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Trade Name</strong></td>
<td>Tanagra</td>
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<tr>
<td><strong>Building applications</strong></td>
<td>Suitable for small and large multi-storey office buildings.</td>
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<tr>
<td></td>
<td>Straight and slightly facet-shaped vertical glass walls.</td>
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<td></td>
<td>Semi-structural front walls with vertically protruding cover caps.</td>
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<tr>
<td><strong>Special features</strong></td>
<td>Rapid on-site installation using stainless steel pin joints to</td>
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<td></td>
<td>connect transoms to mullions. Polyamide thermal break profiles.</td>
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<td></td>
<td>Decorative bead options for finishing external face.</td>
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<td></td>
<td>Traditional front walls with horizontally and vertically</td>
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<td>protruding lines. Can also be used to construct a semi-structural</td>
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<td></td>
<td>front wall with the outside of the front wall showing vertically</td>
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<td></td>
<td>protruding cover caps only.</td>
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<tr>
<td><strong>Materials</strong></td>
<td>Aluminium alloy 6060/6063 T5/76 in condition F22 to RNB P21-001 and</td>
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<td>DIN 1725</td>
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<td>Co-extruded profiles to DIN 7861, TV 110</td>
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<td>NFP 85301, ISO 3994</td>
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<td></td>
<td>Thermal break: polyamide strips PA 6.6</td>
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<td>25% reinforced with glass fibre</td>
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<td>Seals: EPDM to DIN 7863, TV 110</td>
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<td>NFP 85301, ISO 3994</td>
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<tr>
<td><strong>Finish</strong></td>
<td>Polyester powder coat to BS 4696/UPA-Qualicoat</td>
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<td>Guidelines in RAL colours. Anodised satin or bronze</td>
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<td>colours with EWMA/ETRAS-Qualicoat quality label</td>
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<td></td>
<td>Dual colour available. Wood-effect colour available</td>
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<td>(powder coated according to Qualicoat).</td>
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<tr>
<td><strong>Profile width</strong></td>
<td>55mm (mullion)</td>
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<tr>
<td><strong>Depth of frame</strong></td>
<td>79mm – 250mm</td>
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<tr>
<td><strong>Glass</strong></td>
<td>Glazing options from 24mm to 33mm and single glazing</td>
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<tr>
<td><strong>Sash inserts</strong></td>
<td>Accommodates all Smarts windows, doors and horizontal sliders.</td>
</tr>
<tr>
<td><strong>Weather performance</strong></td>
<td>Tests conducted in accordance with STS 52.0</td>
</tr>
<tr>
<td></td>
<td>Complies with Dec L for thermal transmittance</td>
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<tr>
<td></td>
<td>Test Report available on request</td>
</tr>
</tbody>
</table>
Our Shopfront system Shopline is specifically designed for all ground floor treatments and severe duty doors. It is stylish, practical and accommodates all Smarts windows and horizontal sliders. It offers various sighthline options to the head, midrail and sill detail as well as anti finger-trap stiles and concealed transom closers.

The versatility of the system is amply demonstrated by the variety of installations depicted in this brochure. Designed to be robust, our shopfront system will withstand heavy traffic in commercial buildings such as high street shops/store, office buildings, health clubs and many others.
**Shopline**

**Trade Name**

**Building applications**

Designed for all ground floor treatments and severe duty doors

**Special features**

Various sightline options to head, midrail and cill detail.

Anti finger-trap stiles and concealed transom closers.

Dec. M compliant thresholds

**Materials**

Aluminium alloy 6060/6063 T5/16 in condition T62 to RBN P21-001 and D IN 1725

Seals: EPDM to DIN 7663, TV 110

NFP 83001, ISO 1090

**Finish**

Polyester powder coat to BS 6496/AAMA-Qualisat Guidelines.

Anodised satin or bronze colours with EWA/AUSRA-Qualised quality label

**Profile width**

50mm

**Depth of frame**

100mm

**Glass**

Single glazing profiles accommodate 6mm - 12mm glass

Double glazing profiles accommodate 24mm - 28mm glass

**Sash inserts**

Accommodates all Smarts windows and horizontal sliders.

**Performance**

Complies with Dec. I for thermal transmittance
This system was specifically designed as a thermally broken direct replacement for steel windows. It incorporates slim sightlines and an appearance inspired by the traditional old style steel window. It is ideal for listed buildings and replica refurbishment projects where planning constraints are to be considered.

The Evolution system is designed to be built as a series of horizontal modules which can be stacked using horizontal couplers and provides an ideal solution where there is a requirement for a prestigious and thermally advanced window system.
Trade Name: Evolution

Building applications: Designed as a thermally broken replacement for old steel windows and for use as fixed lights and open out windows. It is an internally beaded tape-glazed system suitable for both commercial and domestic applications.

Special features: System designed to be built as a series of horizontal modules which can be stacked using horizontal couplers. Designed for high thermal efficiency using slimmest profiles. Chamfered or square main profile options. High security glazing and shootbolt-locking options. Ideal for listed buildings and refurbishment projects.


Finish: Polyester powder coat to BS 6496/PPA-Duluxcoat. Guidelines: Anodised silver or bronze colours with EWAA/EURAS-Duluxfan quality label. Dual colour available.

Profile width: Various options depending on design considerations

Depth of frame: 47 mm

Glass: 24 mm glazing

Sash inserts: Top or side hing opening options

Performance: Weather tested in accordance with BS675 Pts 1 & 2. Complies with Dec. 1 for thermal transmittance.
Innovative designs and a comprehensive range of windows suitable for the architectural, commercial, public, new build and retail markets are hallmarks of Smart Systems.

Our window ranges include casements (top/side hung, fixed lights and any combination of these), tilt and turn, hopper, tilt and slide, projecting, fully reversible, pivot (horizontal or vertical), sliding and heavy duty. Windows are available externally or internally beaded, open-in/open-out, with polyamide thermal barrier or as an aluminium/PVC-U composite frame for high performance thermal efficiency. High security glazing, shoot-bolt locking, dual colour options, excellent weather performance (BS6375 Pts 1 & 2), compliance with BS7950 and a choice of ovolo, chamfered or square main profiles are just some of the many special features of our window systems.
Visoline

**Trade Name**

Designed for use as fixed lights, tilt and turn, single or double sash, side hung (open in/out), tilt in, side or top hung (open out), horizontal or vertical pivot and tilt and slide windows. All options are internally beaded for use on domestic and all commercial applications.

**Special features**

All applications are internally glazed with square or round edge beads. Polyamide thermal break allowing dual colour option. Profiles span full height i.e. floor to ceiling.

**Materials**

Aluminium alloy 6060/6063 T5/76 in condition F22 to NON P21-501 and DIN 1725

Thermal break: polyamide strips PA 6.6, 25% reinforced with glass fibre

Seal: EPDM to DIN 7663, TV 110

NFP 85301, ISO 3994

**Finish**

Polyester powder coat to BS 6496/AMA-Dualcoat Guidelines. Anodised satin or bronze colour with EUMA/EURAS-Dualcoat quality label. Dual colour available

**Profile width**

Various options depending on design considerations

**Depth of Frame**

51mm

**Glass**

Glazing options from 4mm to 38mm

**Sash inserts**

See “Building Applications” above

**Performance**

Weather tested in accordance with BS6375 Pt 1

Security tested to BS7950

Tested to NEN-ENorm 3096. Security tested by SKG

Complies with Doc. C.1 for thermal transmittance

Text reports are available on request.
Our range of windows are compatible with a range of accessories, locking mechanisms and are available in a wide range of colours and finishes that comply with all relevant British and/or European standards. Compliance with Document L for thermal transmittance applies.

Smart's window systems offer excellent weather performance/ratings in accordance with the requirements of British Standards. BSI test certificates and BSI Kitemark test reports, where applicable, are available on request.
Trade Name: Alitherm

Building applications: Designed for use as fixed lights and open out windows, internally or externally beaded for domestic and light/medium commercial applications.

Special features: Designed for high thermal efficiency using slimline profiles. Oval, chamfered or square main profile options. High security glazing and shoot bolt locking options.

Materials: Aluminium alloy 6060/6063 T5/76 in condition F22 to RNK P21-001 and DIN 1725

Thermal break: polyamide strip PA 6.6. 25% reinforced with glass fibre

Seals: EPDM to DIN 7463, TV 110
NIT 85301, ISO 3994

Finish: Polyester powder coat to BS 6496/APP-Qualtcoat Guidelines.
Anodised satin or bronze colours with EWA/EURAS-Qualitad quality label.
Dual colour available

Profile width: Various options depending on design considerations

Depth of frame: 47mm, 55mm and 70mm

Glass: Glazing options 24mm, 28mm and 32mm

Sash inserts: Top or side hung opening options

Performance: Weather tested in accordance with BS6375 Parts 1 & 2.
Security tested to BS 7950.
Complies with Doc. L. for thermal transmittance.

*BRI Kitemark Test Reports are available on request.
Smart Systems offer a range of doors suitable for the architectural, commercial, public, new build and retail markets. The doors available are commercial hinged, commercial swing, patio, lift and slide, slide folding, multi-track slide and automatic. Our doors are designed for use as open out or open in, single or double doors, internally or externally beaded with side-light options for domestic and/or commercial applications. Doors are available with polyamide thermal barrier or as aluminium/PVC-U composite frames for high performance thermal efficiency.

High security glazing, locking mechanisms including security deadlock and hook bolts, dual colour options, excellent weather performance (BS6375 Pt 1) are some of the many special features of our door systems.
**DOORS**

**Visoline**

**Trade Name**

Visoline

**Building applications**

Designed for use as open out or open in, single or double doors, Internally headed with side-light options for domestic and Light/medium commercial applications.

- **Single door** - Max width 950mm. Max height 2400mm
- **Double door** - Max width 1800mm. Max height 2400mm

Subject to agreement it is possible to exceed these limitations depending on design criteria

**Special features**

- All applications are internally glazed with square or round edge beads
- Polyamide thermal break allowing dual colour option

**Materials**

- Aluminium alloy 6060/1063 T5/16 in condition F22 to NBN P21-001 and DIN 1725
- Thermal break polyamide strip PA 6.6.
- 25% reinforced with glass fibre
- Seals: EPDM to DIN 7661, TV 110
- NFP 45101, ISO 3994

**Finish**

- Powder coat to BS 6496/6PA-Qualicoat Guidelines
- Anodised satin or bronze colours with
- EVRA/MURAS-Qualicoat quality label
- Dual colour available

**Profile width**

Various options depending on design considerations

**Depth of frame**

51mm

**Glass**

- Glazing options from 4mm to 38mm

**Sash inserts**

- Allows for fully framed or low threshold door sashes

**Performance**

- Weather tested in accordance with BS6375 Pt 1
- Tested to NEN-075 5096. Security tested by SKG
- Complies with Doc J, for thermal transmittance
- Test Report available on request
Our doors are compatible with a range of furniture and locking mechanisms and are available in a wide range of colours and finishes that comply with all relevant British and/or European standards. Compliance with Document L for thermal transmittance applies.

Design flexibility, durability and fitness for purpose are key factors that project managers, architects and specifiers will discover when they opt for our commercial doors – whether required for refurbishment or new build projects Smart’s doors are designed for rigorous use and heavy traffic.

Test Reports are available on request.
DOORS
Visoglide

Horizontal Section

Vertical Section

Trade Name
Visoglide

Building applications
Designed for use as fixed lights and horizontal sliding doors internally beaded for domestic and all commercial applications.

Weight limit 200Kg. Height limit 2550mm

Special features
2, 3, 4 and 6 door panels available
All applications are internally glazed with square beads
Polyamide thermal break allowing dual colour option

Materials
Aluminium alloy 6060/6063 T5/T6 in condition F22 to EN 521-1 and EN 1725.
Thermal break: polyamide strip PA 6.6.
25% reinforced with glass fibre.
Glazing seals: EPDM to DIN 7663, TV 110
NIP 8301, ISO 3994
Weatherseals: Weep hole

Finish
Polyester powder coat to BS 6496/UPA-Qualicoat Guidelines.
Anodised satin or bronze colours with
EWPA/UPA-Qualicoat quality label
Dual colour available

Profile width
Head, cill and jamb 116mm
Mullion 81mm and bi-parting stiles 155mm

Depth of frame
Two track 99mm and three track 155mm

Glass
Glazing options from 4mm to 28mm

Sash inserts
Fixed lights and horizontal sliding panels

Performance
Weather tested in accordance with BS 6375 Pt 1
Tested to NEN-norm 5096. Security tested by SKG
Complies with Doc. L for thermal transmittance
Test Reports are available on request.
Our Visofold folding doors are constructed from profiles with a thermal break. Robust sections enable the creation of large passage-ways providing maximum natural light and panoramic views. Moveable panels that can be folded up to the left or right sit within an outerframe. The system offers flexibility in terms of the possible combinations of folding elements and opening sashes.

This door system can be used in a variety of properties including private domestic dwellings, conservatories, hotels, restaurants and stores to open up a complete wall to create a larger space particularly advantageous in the summer.
Visifold

**Trade Name**

**Building applications**
Designed for use as doors for single/double (open in or out), sliding and folding screens (open in or out) internally beaded for use in domestic dwellings, as a screen in conservatories and on all commercial applications e.g. hotels, restaurants, and stores.

**Materials**
- Aluminium alloy 6060/6063 T5/T6 in condition F22 to RIBA P21-001 and DIN 1725
- Thermal break: polyamide strips PA 6.6 or 25% reinforced with glass fibre
- Glazing seal: EPDM to DIN 7667, TV 110 NIP 85103, ISO 3994
- Weather seal: Woolpile and EPDM

**Finish**
Polyester powder coat to BS 6496/SPA-Dualcoat Guidelines.
- Anodised satin or bronze colour with ENA/EURAS-Dualcoat quality label
- Dual colour available. Wood-effect colour available (powder coated according to Dualcoat).

**Profile width**
Various options depending on design considerations

**Depth of frame**
- Outerframe 78mm, Sash 70mm

**Glass**
Glazing options from 6mm to 38mm

**Sash inserts**
- Vinyline window types

**Weather performance**
Tests conducted in accordance with STS 52.0
- Complex with Dec. L for thermal transmittance
- Test Report available on request
<table>
<thead>
<tr>
<th>Building applications</th>
<th>Special features</th>
<th>Materials</th>
<th>Finish</th>
<th>Profile width</th>
<th>Glass</th>
<th>Sash inserts</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Designed for use as fixed lights, tilt and turn, fully reversible side or top hung open out windows, internally or externally beaded for domestic and light/medium commercial applications.</td>
<td>Designed for high thermal efficiency — Structural aluminium sections are clad internally with PVC-U profiles. Ovales, chamfered or square main profile options High security glazing and shot-bolt locking</td>
<td>Aluminium alloy 6060/6063 T5/T6 to comply with BS EN 12020-2: 2001/BS7599-1: 2001 Internal PVC-U window grade profile to BS7413 Glazing and weatherseals comply with BS4255 and BS4255 Pt 1</td>
<td>Polyester powder coat paint finish to BS 6496. Dual colour available, Standard RAL colours supplied. Anodised finish AA25 to BS3987. Woodgrain finishes in mahogany and light oak</td>
<td>Various options depending on design considerations 51mm and 70mm</td>
<td>Glazing options 20mm, 24mm, 28mm or 32mm</td>
<td>Top or side hung opening, tilt and turn and top swing fully reversible options</td>
<td>Weather tested in accordance with BS5767 Pt 1 Complies with Doc. L for thermal transmittance Test Reports are available on request</td>
</tr>
<tr>
<td>Designed for use as open out or open in, single or double doors, Internally or externally beaded with side-light options for domestic and light/medium commercial applications. Single door - Max width 914mm, Max height 2400mm Double door - Max width 1800mm, Max height 2400mm Subject to agreement it is possible to exceed these limitations depending on design criteria</td>
<td>Designed for high thermal efficiency — Structural aluminium sections are clad internally with PVC-U profiles. Ovales, chamfered or square main profile options High security glazing and three point locking</td>
<td>aluminium alloy 6060/6063 T5/T6 to comply with BS EN 12020-2: 2001/BS7599-Pt 1 Internal PVC-U window grade profile to BS7413 Glazing and weatherseals comply with BS4255 and BS4255 Pt 1</td>
<td>Polyester powder coat paint finish to BS 6496. Dual colour available, Standard RAL colours supplied. Anodised finish AA25 to BS3987. Woodgrain finishes in mahogany and light oak</td>
<td>Various options depending on design considerations 70mm 24mm</td>
<td>Allows for fully framed or low threshold door sashes</td>
<td>Complies with Doc. L for thermal transmittance Test Report available on request</td>
<td>Various options depending on design considerations 47mm or 70mm Glazing options 24mm, 28mm and 32mm Allows for fully framed or low threshold door sashes Weather tested in accordance with BS6379 Pt 1 Complies with Doc. L for thermal transmittance Test Report available on request</td>
</tr>
</tbody>
</table>
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Window Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Imperial Window</strong></td>
<td>Designed for use as fixed lights, tilt and turn, single or double skin, side hung (open in/out), tilt in, side or top hung (open out), horizontal or vertical pivot and tilt and slide windows. All options are internally beaded for use on domestic and all commercial applications. Doors are also available as part of this range.</td>
</tr>
<tr>
<td><strong>Intruder Window</strong></td>
<td>Designed for use as fixed lights, top or side hung, open out window, externally beaded for domestic and all commercial applications.</td>
</tr>
<tr>
<td><strong>Reversible Window</strong></td>
<td>Designed for use as fixed lights, and open out top swing reversible window. Internal beading to vent with the option of internal/external beaded fixed light. For use on domestic and light/medium commercial applications.</td>
</tr>
</tbody>
</table>

### Building applications
- **Imperial Window**: Polyamide thermal break allowing dual colour option
- **Intruder Window**: Polyamide thermal break allowing dual colour option
- **Reversible Window**: Polyamide thermal break allowing dual colour option

### Materials
- **Imperial Window**: Aluminium alloy 6060/6063 T5/T6 in condition T2 to NBN P21-001 and DIN 1725
- **Intruder Window**: Thermal break polyamide strips PA 6.6. 25% reinforced with glass fibre
- **Reversible Window**: Aluminium powder coat to BS 6496/APP-Quadcoat Guidelines. Anodised satin or bronze colours with EWMA/EURAS-Quadcoat quality label Dual colour available

### Special features
- **Imperial Window**: All applications are internally glazed with square or round edge beads
- **Intruder Window**: Polyamide thermal break allowing dual colour option
- **Reversible Window**: Polyamide thermal break allowing dual colour option

### Finish
- **Imperial Window**: Polyester powder coat to BS 6496/APP-Quadcoat Guidelines
- **Intruder Window**: Anodised satin or bronze colours with EWMA/EURAS-Quadcoat quality label Dual colour available
- **Reversible Window**: Polyester powder coat to BS 6496/APP-Quadcoat Guidelines. Anodised satin or bronze colours with EWMA/EURAS-Quadcoat quality label Dual colour available

### Profile width
- **Imperial Window**: Various options depending on design considerations
- **Intruder Window**: Various options depending on design considerations
- **Reversible Window**: Various options depending on design considerations

### Glazing options
- **Imperial Window**: 65mm
- **Intruder Window**: Various options depending on design considerations
- **Reversible Window**: 51mm and 70mm

### Sash inserts
- **Imperial Window**: Weather tested in accordance with BS5735 Pt 1
- **Intruder Window**: Weather tested in accordance with BS5735 Pt 1
- **Reversible Window**: Weather tested in accordance with BS5735 Pt 1

### Performance
- **Imperial Window**: Test Reports are available on request
- **Intruder Window**: Test Reports are available on request
- **Reversible Window**: Reversible sash

### Weather testing
- **Imperial Window**: Tested to NE�-norm 5096. Security tested by SGS
- **Intruder Window**: Security tested to BS7950
- **Reversible Window**: Security tested to BS7950
<table>
<thead>
<tr>
<th><strong>Slide Window</strong></th>
<th><strong>Superial Window</strong></th>
<th><strong>Triline Window</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Building applications</strong></td>
<td>Designed to separate terrace areas and living quarters in houses and flats. Provides separations for conservatories looking out onto the garden and also creates space in passage-ways.</td>
<td>Designed for use as fixed lights; tilt and turn, single or double sash, side hung (open in/out), lift (in, side or top hung (open out), horizontal or vertical pivot and tilt and slide windows. All options are internally beaded for use on domestic and all commercial applications</td>
</tr>
<tr>
<td><strong>Special features</strong></td>
<td>Thermal break system that provides a high degree of acoustic and thermal insulation.</td>
<td>All applications are internally glazed with a square or round edge beads Polyamide thermal break allowing dual colour option Profiles span full height i.e. floor to ceiling</td>
</tr>
<tr>
<td><strong>Materials</strong></td>
<td>Aluminium alloy 6060/6063 T5/T6 in condition F22 to DIN P21-001 and DIN 1725</td>
<td>Aluminium alloy 6060/6063 T5/T6 in condition F22 to DIN P21-001 and DIN 1725</td>
</tr>
<tr>
<td></td>
<td>Thermal break: polyamide strips PA 6.6. 25% reinforced with glass fibre</td>
<td>Thermal break: polyamide strips PA 6.6. 25% reinforced with glass fibre</td>
</tr>
<tr>
<td></td>
<td>Glazing seals: EPDM to DIN 7663, TV 110 NFP 85301, ISO 3994</td>
<td>Glazing seals: EPDM to DIN 7663, TV 110 NFP 85301, ISO 3994</td>
</tr>
<tr>
<td></td>
<td>Finish</td>
<td>Polyester powder coat to BS 6496/ALP-QuaLcoat Guidelines. Anodised satin or bronze colours with EWMA/ETRAS QuaLcoat quality label. Dual colour available. Wood-effect colour available (powder coated according to Qualicoat)</td>
</tr>
<tr>
<td></td>
<td>Profile width</td>
<td>Various options depending on design considerations</td>
</tr>
<tr>
<td></td>
<td>Depth of frame</td>
<td>Various options depending on design considerations</td>
</tr>
<tr>
<td></td>
<td>Glass</td>
<td>Glazing options from 6mm to 9mm single glazing and double glazing from 20mm to 24mm</td>
</tr>
<tr>
<td></td>
<td>Sash inserts</td>
<td>Horizontal sliding panels only</td>
</tr>
<tr>
<td></td>
<td>Performance</td>
<td>Tested to NEN-norm 5096. Security tested by SKG Complies with Doc. L for thermal transmittance Test Reports are available on request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Various options depending on design considerations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Outer frame 75 mm, sash 84 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Glazing from 21 up to 61 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tests conducted in accordance with STS S2.0 Complies with Doc. L for thermal transmittance Test Report available on request</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Various options depending on design considerations</td>
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<tr>
<td></td>
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<td>Stir 5mm</td>
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<tr>
<td></td>
<td></td>
<td>Glazing options from 4mm to 38mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See “Building Applications” above Tested to NEN-norm 5096. Security tested by SKG Complies with Doc. L for thermal transmittance Test Reports are available on request</td>
</tr>
</tbody>
</table>
### TECHNICAL SPECIFICATIONS

#### Superglide Door

- Designed to separate terrace areas and living quarters in houses and flats. Provides separations for conservatories looking out onto the garden and also creates space in passage-ways.
- Thermal break system for patio doors (2, 3, 4 & 6 pane) and windows with thermal break

#### SC Frame

- Suitable for low to medium rise façades including large shopfronts and showrooms, where ease of installing large panes of glass is a prerequisite.
- Constructed in ladder frames in the factory allowing rapid on-site installation. Stainless steel self-tapping screws are used through the mullion into integral cores within the transom or a cladding method can be used for manufacture

#### Materials:
- Aluminium alloy 6060/6063 T5 in condition F22 (according to NBN P21-001 and DIN 1725)
- Sealings: EPDM according to DIN 7663, TV 110, NFP 83501, ISO 3994
- Thermal break: polyamide strips PA 6.6 25% reinforced with glass fibre

#### Finish
- Polyester powder coat to BS 6496/APA-Qualicoat Guidelines.
- Anodised satin or bronze colours with EWAA/EURAS-Qualicoated quality label
- Dual colour available.
- Wood-effect colour available (powder coated according to Qualicoat)

#### Profile width
- Various options depending on design considerations
  - Outer frame 116 mm
  - Glazing from 4 to 18 mm

#### Sash inserts
- Tests conducted in accordance with STS S2.0
- Complies with Doc. L for thermal transmittance
- Test Report available on request

#### Performance
- Aluminium alloy 6060/6063 T5/76 in condition F22 to NBN P21-001 and DIN 1725
- Thermal break and seals: EPDM to DIN 7663, TV 110 NFP 83501, ISO 3994
- Polyester powder coat to BS 6496/APA-Qualicoat Guidelines.
- Anodised satin or bronze colours with EWAA/EURAS-Qualicoated quality label
- Dual colour available

- 55mm
- 75mm, 100mm and 125mm
- Single glazing 6mm, 10mm and 12mm and double glazing 24mm, 28mm and 32mm
- Accommodates Smart's Intruder, Alitherm, Visoline and Slide Windows and Doors.
- Complies with Doc. L for thermal transmittance

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We reserve the right to make changes to the product specification as technical developments dictate and without prior notice.

Alitherm, Duotherm, Imperial Intruder, MC Wall, SC Frame, Shopline, Slide, TrimLine, Visoline and Visoline are trademarks of Smart Systems Ltd.

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