

so you think all **window companies** are the same... **think again!**

Aluminium Frames and Specialist Glazing Products



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Our Product Range

Introducing Our Products

Sternfenster designs, manufactures and supplies aluminium and PVC bifolds, frames and patios to a network of approved dealers throughout the UK.

Our range of aluminium products is suitable for all types of residential and commercial applications and comes in strong and attractive slim-line profiles. We offer the complete range of windows, doors, bi-folds and patio doors, all designed for strength and durability whilst remaining practical and aesthetically pleasing to look at.

Our range of PVC products is amongst the most technologically advanced in Europe, being manufactured to high standards, incorporating thermally

efficient profiles and energy rated double and triple glazed sealed units. Our range of PVC windows and doors is also accredited to Secured by Design standards as recommended by the Association of Chief Police Officers.

With bi-fold doors, patio doors, composite doors and highly engineered vertical sliding windows, we are one of a few Companies who offer a complete portfolio of products to suit every application, including the facility to spray paint any PVC product in the colour of your choice.



Vertical Sliders



Aluminium Windows



Aluminium Bi-fold Doors



Aluminium Patio Doors



Flush fitting Composite Frames



PVC Windows and Doors



Units with Integral Blinds

"We had several quotes for the work and whilst you were not the cheapest we are so glad that we decided to go with you, the attention to detail and personal service has been greatly appreciated, thanks to you and your team"

Mr and Mrs Sturges, Sutton



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Introducing Bi-fold Doors



Why choose a Bi-fold Door?

Panoramic folding doors transform any home. With an array of different options and finishes our beautifully designed doors are perfect for living rooms, bedrooms, kitchens and conservatories.

A bi-fold door adds that touch of elegance and finesse to any external aspect of your home. When closed the striking glass facade complements the external aspect of your home. Once opened the stunning effect of bringing the outside into your home is revealed.

All our bi-fold doors come with the quality and assurances you would expect from a quality designed product. The strength, durability and security of our products means you will enjoy low maintenance reliable performance over a lifetime of use.

Choosing your Bi-fold Door

There are a wide range of options available when choosing a bi-fold door for your home. Available in both aluminium and PVC-U with a variety of opening configurations a bi-fold door can be used as an alternative to a sliding door or open up an entire wall as part of a conservatory.

Installing Bi-fold Doors

Sternfenster designs, manufactures and supplies bi-fold systems. Our quality control and accreditations lead the industry giving you peace of mind that your investment is handled efficiently and effectively.

For more information on the different configurations available please visit www.sternfenster.co.uk.

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Configurations

Complete list of configurations

1 Part bi-fold

1 0 1
1 1 0

2 Part bi-fold

2 0 2
2 1 1
2 2 0

3 Part bi-fold

3 0 3
3 1 2
3 2 1
3 3 0

4 Part bi-fold

4 0 4
4 1 3
4 2 2
4 3 1
4 4 0

5 Part bi-fold

5 0 5
5 1 4
5 2 3
5 3 2
5 4 1
5 5 0

6 Part bi-fold

6 0 6
6 1 5

6 2 4

6 3 3

6 4 2

6 5 1

6 6 0

7 Part bi-fold

7 0 7

7 1 6

7 2 5

7 3 4

7 4 3

7 5 2

7 6 1

7 7 0

8 Part bi-fold

8 0 8

8 1 7

8 2 6

8 3 5

8 4 4

8 5 3

8 6 2

8 7 1

8 8 0

Key to Configurations

- Total number of doors
- Number of doors opening left
- Numbers of doors opening right

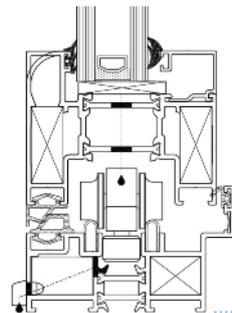
Aluminium Bi-fold Doors



Bi-fold Dimensions

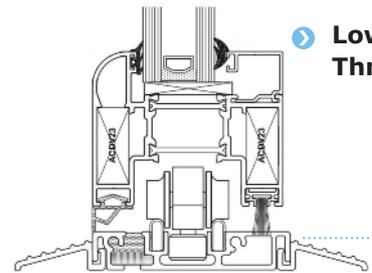
Maximum height 2500mm, maximum sash width 1000mm, minimum sash width 700mm

1 door design	min width 790mm	max width 1080mm
2 door design	min width 1510mm	max width 2100mm
3 door design	min width 2250mm	max width 3050mm
4 door design	min width 3050mm	max width 4050mm
5 door design	min width 3650mm	max width 5050mm
6 door design	min width 4350mm	max width 6050mm
7 door design	min width 5050mm	max width 7050mm
8 door design	min width 5750mm	max width 8050mm



Standard Threshold

49.5mm



Low Threshold

15mm

Configurations

Examples of design configurations (M) Main door handle (S) Slave door handle (open in or open out)

Style 3-1-2



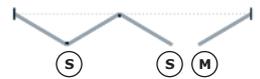
Style 3-0-3



Style 4-0-4



Style 4-3-1



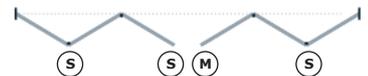
Style 4-2-2



Style 5-5-0



Style 6-3-3



Features & Options

- ▶ Our doors can be configured to open in, open out, stack from the left or the right, open in the centre, end or in between
- ▶ Our doors are available with standard threshold with an up stand of 31mm or a low threshold version with ramps at only 15mm
- ▶ High security hook bolt locks and one piece keeps on main opening sashes, and shootbolt locking on floating mullions
- ▶ Highly engineered and robust stainless steel rollers to give a smooth and easy operation
- ▶ Polyamide thermal barrier to reduce heat loss and improve thermal performance
- ▶ High quality EDPM rubber gaskets and weather brushes to aid weather proofing
- ▶ 28mm double glazed units, available with integral blinds giving a U'value of 1.8 W/m²K
- ▶ 36mm triple glazed units are available, giving an overall frame U'value of 1.4 W/m²K
- ▶ Upgrades to self-cleaning or other specialist units are available
- ▶ Magnetic door clips are available to secure open door sashes
- ▶ Head vents are available for background ventilation, although these must be fitted into frame extensions
- ▶ Handles are available in white, chrome and black, door hinges are only available in white or black

Information on Colour

All our aluminium products are available in a wide range of colours, from the standard KL range and RAL colours through to the exclusive Sensation range of colours.

- ▶ Lead times vary depending on which colour option you select
- ▶ KL colours are on the shortest lead times
- ▶ All aluminium products are available in dual colours, i.e. different colours inside and out
- ▶ We also do a range of imitation wood finishes
- ▶ The aluminium finish is guaranteed for a maximum of 25 years against peeling, powdering, blistering, corrosion, fading and loss of sheen except in hazardous environments, e.g. within 500m of the high tide line, in these cases you need to apply to us to confirm the exact length of the guarantee, you must also ensure that you clean and maintain the products in accordance with our latest guidelines, please contact us for more details.

Our KL Colour Range

Below is our standard range of colours that are available on the shortest lead times. Please be aware that these colours come in different surface finishes as indicated below. Please note that these colours are only intended as a guide and you should request a KL colour chart for a more accurate image.

			
Reference KL 001 (Matt)	Reference KL 002 (Matt)	Reference KL 003 (Matt)	Reference KL 004 (Matt)
			
Reference KL 005 (Matt)	Reference KL 006 (Matt)	Reference KL 007 (Gloss)	Reference KL 008 (Matt)
			
Reference KL 009 (Gloss)	Reference KL 010 (Matt)	Reference KL 011 (Satin)	Reference KL 012 (Matt)
			
Reference KL 013 (Matt Metallic)			

Our Sensations Colour Range

An exclusive selection combining colour and texture giving durable scratch and corrosion resistance.

			
Velour White (SEN 001)	Dune (SEN 002)	Sand (SEN 003)	Desert Grey (SEN 025)
			
Silver Grey (SEN 017)	Antique Grey (SEN 015)	Antique Green (SEN 012)	Olive Green (SEN 018)
			
Mars Red (SEN 005)	Sky Blue (SEN 009)	Vulcan Black (SEN 014)	Frost White (SEN 022)

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Features & Options

- ▶ Available with a double or triple track to enable multiple sliders to move in the same direction, giving the potential of up to two thirds opening aperture
- ▶ Available with 2, 3, 4, 5 and 6 sliding sashes, with the sliding sash sliding on the inside
- ▶ Our doors are complemented by a range of furniture options featuring traditional lever/lever or "D" looped handle options
- ▶ Handles are available in a choice of standard colours: with additional options to colour match the handles to the colour of the doors
- ▶ High security multi point hook bolt locking mechanisms are fitted as standard to master sliding sashes, with the additional security of internally glazed sliding sashes
- ▶ Polyamide thermal barrier to reduce heat loss and improve thermal performance
- ▶ High quality EDPM rubber gaskets and weather brushes to aid weather proofing. 28mm double glazed units, available with integral blinds giving a U'value of 1.8 W/m²K



Aluminium Patio Doors

Why choose an Aluminium Patio Door?

Visoglide patio doors are designed to create a stunning glass façade in order to maximise the glass areas, allowing you to enjoy beautiful views.

Our range of aluminium patio doors deliver optimum performance and are tested to the highest standards to guarantee reliability. The strong, thermally broken aluminium sections enable the creation of dramatic sliding sashes with large glass areas without reducing thermal or weather resistance.

Special sliding mechanisms enable even the largest sashes to slide open and close smoothly, whatever their size. When closed these large sliding doors form a thermally efficient glass façade, a wonderful way to flood space with light and enjoy beautiful views.

Patio Dimensions

- ▶ Maximum overall width 7000mm
- ▶ Maximum overall height 2550mm
- ▶ Maximum weight limit 200kg
- ▶ Maximum sash size 2500mm x 2500mm
- ▶ Standard double track width 99mm, triple track width 155mm, both with an up stand of 52mm





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Features & Options

- ▶ We offer three main ranges of aluminium windows and doors, all of which offer some distinct advantages over many window systems on the market
- ▶ The Alitherm 800 range, which offers an ovolo outer frame and sash with a chamfered bead is available with a U'value of 1.5 W/m²K and an A rating, making it one of the most advanced aluminium windows on the market. With an overall width of 70mm and sightlines of only 73mm it offers excellent thermal properties
- ▶ The Alitherm 600 range, offers a more ornate finish with an ovolo finish to the external edge of the sash and outer frame. With a frame width of 70mm and sightlines of 74.5mm this window is able to get down to an overall U'value of 1.3 W/m²K with 36mm triple glazed units
- ▶ We also offer the Heritage 47 range of windows which has been specifically designed as a thermally broken direct replacement for old steel windows. It is ideal for listed buildings or where planning constraints are to be considered
- ▶ Polyamide thermal barrier to reduce heat loss and improve thermal performance.
- ▶ High quality EDPM rubber gaskets and weather brushes to aid weather proofing



Aluminium Windows

Why choose Aluminium Windows?

Alitherm windows and doors have been designed to reduce heat loss by the use of a thermally broken aluminium frame with a polyamide bridge.

The polyamide material has a very high resistance to heat transfer from the inner face of the frame (i.e. inside the room) to the external face of the frame (i.e. the outside). Thermally broken frames provide homeowners with windows and doors that have distinct advantages. Strength and durability are provided by the use of aluminium sections which gives structurally sound windows and doors for peace of mind.

Elegant slim sightlines are features of the Alitherm window and doors which are enhanced by an ovolo profile edge appearance. Additionally you have a wide range of colours and finishes to choose from both internally and externally.



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PVC Product Range

- ▶ High security, A energy rated decorative windows and doors
- ▶ High security, A energy rated chamfered windows and doors
- ▶ PVC Vertical sliding windows
- ▶ Open out swing and slide doors in a full range of colours
- ▶ Composite doors in a range of decorative styles and colours
- ▶ Coloured PVC in over 250 different RAL colours
- ▶ White, Black, Rosewood, Irish Oak, Golden Oak and Cream laminated foil



PVC Windows and Doors



Why choose PVC Windows and Doors?

Our range of high quality PVC windows and doors is designed to be energy efficient and highly secure, making them some of the most technologically advanced windows in Europe.

Having over 30 years' experience in this market we offer A rated energy windows as standard, meaning that you could be saving up to £697 per year on heating bills by switching from old, poorly insulated windows. With the potential to engineer windows with overall frame U'values of 1.0 and lower, our thermally efficient windows will add value to your home.

Our range of PVC frames is manufactured to British Standard Kitemarks and is available to Secured by Design security standards, as recommended by the Association of Chief Police Officers.

In order to retain the appearance of many properties we also offer all our PVC frames in over 250 colours, with our own in-house spraying facility we are able to spray frames to a specific RAL colour or even match your curtains! With a 10 year paint guarantee this service means you can enjoy all the benefits of thermally efficient, highly secure PVC windows and blend them into your home.





Flush fitting Composite Frames

Why choose flush fitting Composite Frames?

Residence 9 is a new window system designed to replicate the 19th Century Flush Sash Timber Window.

It can be considered for use in Conservation Areas due to its authentic appearance. This authentic design is also appealing to any homeowner who wants a top end luxury window brand. It can accommodate 28mm double or 44mm triple glazing with market leading thermal and acoustic performance. It achieved one of the highest classifications on the weather test due to its robust design. It is hand finished and made by craftsmen.

Residence 9 is manufactured from a modern composite material to give a virtually maintenance free finish. Only available in heritage colours, the "easy clean rebates" are also foiled in the same finish, which means that the high end, maintenance free appearance is maintained when the window is open. Residence 9 is truly a luxury, top end window system and can also be incorporated into Orangeries and Garden Rooms. Beautiful French and Residential Doors are also available.





Features & Options

- ▶ Maintenance free operation by way of an external, detachable magnet.
- ▶ Protection against deformation and damage by encapsulation.
- ▶ Pristine blind appearance at all times, clean for life!
- ▶ 12.5mm aluminium slats, painted with a high resistance polyester paint.
- ▶ We are able to offer an upgraded range of motorised blinds that can be operated by remote control.
- ▶ For most sizes the blinds operate like traditional blinds, either tilting and rising, for some smaller sizes blinds are available as tilt only.
- ▶ All blinds are encapsulated in thermally efficient sealed units meaning that the overall performance is not affected in any way.

Units with Integral Blinds

Why choose Integral Blinds?

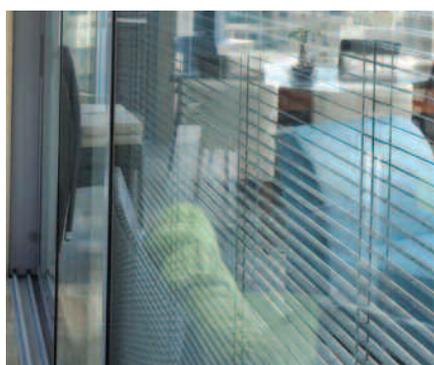
Integral blinds are the perfect choice for a range of applications, from aluminium bifold doors, through to tilt and turn windows, conservatories and opening doors.

Fitted in between the two panes of glass in the double glazed sealed unit, the aluminium blinds are unobtrusive, meaning that nothing can interfere with the operation of them, ideal if you have folding doors as they move in one with the doors to provide a seamless and elegant finish.

Our range of aluminium slatted blinds comes in a wide choice of colours, from white, cream and silver through to black, grey, blue and even wood effect.

Double glazed unit dimensions

- ▶ Minimum width 300mm, maximum width 1500mm
- ▶ Minimum height 300mm, maximum height 2500mm
- ▶ Maximum overall area 2.2 square metres
- ▶ Due to restrictions housing the mechanisms some smaller units will be available as tilt only





About Us/Enquire

Sternfenster is a brand within the Waterside Group.

A family owned business based in Lincoln. The Company provides a range of high quality home improvement products, from Aluminium bi-folds, windows and doors through to energy saving, high security PVC windows and doors.

Our products are available through a nationwide network of approved dealers who are regularly vetted to ensure that their standards of work are amongst the highest in our industry.

We are committed to offering the best products at reasonable prices. We provide a local service which the large National home improvement brands are not able to match. With products that are Kite marked to the latest British and European standards, we are in a great position to be able to provide you with a fantastic package that will be individually designed to satisfy your needs, whether to improve the appearance of your property, make it warmer or more secure or simply to make it maintenance free.





We were very impressed, the service we received throughout was excellent, from Wayne in the office who initially took our call through to the surveyor and the installers. The finished product was exactly what we envisaged and of the highest quality. I would happily recommend your Company.

sternfenster
window systems

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We reserve the right to make changes to the product specification as technical developments dictate and without prior notice.
Pictures shown in this brochure are for illustrative purposes only and are not binding in specification or detail.

For technical reasons associated with colour reproduction, the colours shown give only an indication of shade, no guarantee can be given that they will exactly match the actual product finish.