

# sternfenster

window systems





# Contents

➤ <b>Our Product Range</b>	04
Introducing Our Products	
➤ <b>Introducing Bi-fold Doors</b>	07
The benefits of bi-fold doors	
➤ <b>Aluminium Bi-fold Doors</b>	08
Options & Specifications	
➤ <b>Aluminium Patio Doors</b>	12
Options & Specifications	
➤ <b>Aluminium Windows</b>	14
Options & Specifications	
➤ <b>PVC Windows and Doors</b>	16
Options & Specifications	
➤ <b>Units with Integral Blinds</b>	18
Options & Specifications	
➤ <b>About Us / Enquire</b>	19
Obtaining a quote	



## 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.



➤ **Aluminium Windows**



➤ **Aluminium Bi-fold Doors**



➤ **Aluminium Patio Doors**

#### Ordering your new products

Ordering your new bi-fold doors, patio or windows couldn't be easier. Call one of our approved local dealers or email us at [sales@sternfenster.co.uk](mailto:sales@sternfenster.co.uk)

With over 30 years of experience we are confident our products will enhance and add value to your home.



➤ **PVC Windows and Doors**



➤ **Units with Integral Blinds**

“ 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.

**Mr and Mrs Cashmore**  
Rugby







## 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. For more information on the different configurations available please visit [www.sternfenster.co.uk](http://www.sternfenster.co.uk).

### 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.



Configurations

Complete list of configurations

1 Part bi-fold



2 Part bi-fold



3 Part bi-fold



4 Part bi-fold



5 Part bi-fold



6 Part bi-fold



7 Part bi-fold



8 Part bi-fold



Key to Configurations

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

Aluminium Bi-fold Doors

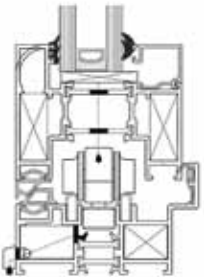


Features and Options

- 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 49.5mm 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
- 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.

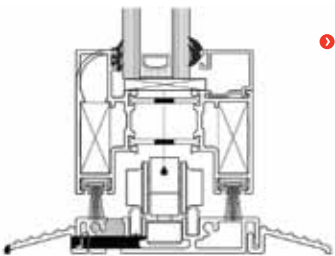
Bi-fold Dimensions  
Maximum height 2500mm, maximum sash width 1000mm, minimum sash width 700mm

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



Standard Threshold

49.5mm



Low Threshold

15mm

Configurations

Examples of design configurations (open in or open out)

Ⓜ Main door handle Ⓢ Slave door handle

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



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 10 years against peeling, powdering, blistering, corrosion, fading and loss of sheen, assuming that the material is cleaned and maintained in accordance with our guidelines. Back to back warranties apply to all other materials.

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 KL013  
Finish Matt Metallic



Reference KL011  
Finish Satin



Reference KL004  
Finish Matt



Reference KL005  
Finish Matt



Reference KL006  
Finish Satin



Reference KL007  
Finish Gloss



Reference KL008  
Finish Matt



Reference KL010  
Finish Matt



Reference KL002  
Finish Matt



Reference KL003  
Finish Matt



Reference KL012  
Finish Matt Metallic



Reference KL001  
Finish Matt



Reference KL009  
Finish Gloss









### Features and 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.



### Patio dimensions

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

## Aluminium Patio Doors



### Why choose a 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.

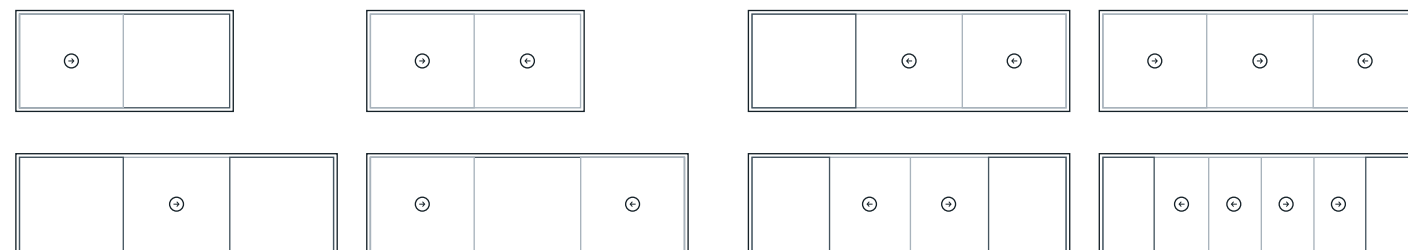
Our range of aluminium patio doors delivers optimum performance and are tested to the highest standards to guarantee reliability. The strong, thermally broken aluminium sections enable the creation of dramatic sliding sashes with large glass areas without reducing thermal or weather resistance.

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.



### Options

Examples of design configurations.



















### Information on Colour

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- 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 10 years against peeling, powdering, blistering, corrosion, fading and loss of sheen, assuming that the material is cleaned and maintained in accordance with our guidelines. Back to back warranties apply to all other materials.

### Our Sensation Colour Range

Below is our range of Sensation colours, an exclusive selection combining colour and texture giving durable scratch and corrosion resistance. Please note that these colours are only intended as a guide and you should request a colour chart for a more accurate image.

			
<b>Reference 022</b> Frost White	<b>Reference 003</b> Sand	<b>Reference 023</b> Molten Copper	<b>Reference 005</b> Mars Red
			
<b>Reference 020</b> Havana Brown	<b>Reference 024</b> Chestnut Brown	<b>Reference 017</b> Silver Grey	<b>Reference 026</b> Diamond Grey
			
<b>Reference 016</b> Platinum Grey	<b>Reference 015</b> Antique Grey	<b>Reference 012</b> Antique Green	<b>Reference 018</b> Olive Green
			
<b>Reference 010</b> Provence Green	<b>Reference 008</b> Antique Blue	<b>Reference 014</b> Vulcan Black	<b>Reference 009</b> Sky Blue



Features and 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 300 range, which offers very slim sightlines, chamfered edges and a square bead is available as an A energy rated window, making it one of the most advanced aluminium windows on the market. With a frame width of 53mm and a frame to bead depth of only 59mm this is a very slim window offering a large glass area.
- 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 59.5mm and a frame to bead depth of 84.5mm this window is available as a B rated energy rate window.
- We also offer the Evolution 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.

Window dimensions

- Maximum side hung sash width 700mm, maximum side hung height 1400mm
- Maximum top hung sash width 1400mm, maximum top hung height 1200mm
- Due to the nature of the Evolution product there are various size limitations, please liaise with the office for advice on detailed specifications.

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.





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.

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- 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 10 years against peeling, powdering, blistering, corrosion, fading and loss of sheen, assuming that the material is cleaned and maintained in accordance with our guidelines. Back to back warranties apply to all other materials.

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 KL013 Finish Matt Metallic	Reference KL011 Finish Satin	Reference KL004 Finish Matt	Reference KL005 Finish Matt
			
Reference KL006 Finish Satin	Reference KL007 Finish Gloss	Reference KL008 Finish Matt	Reference KL010 Finish Matt
			
Reference KL002 Finish Matt	Reference KL003 Finish Matt	Reference KL012 Finish Matt Metallic	Reference KL001 Finish Matt
			
Reference KL009 Finish Gloss			





#### 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 in PVC bifold doors available in White, Rosewood and Golden Oak
- 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 foils

## 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.



#### Features and Options

- High security upgrades to Secured by Design standards, creating the most secure window on the market, as recommended by the Association of Chief Police Officers.
- The Super Fortress range of windows has decorative edges to the outer frame, sashes and beading to produce a highly ornate window.
- The Fortress range of windows has a more traditional chamfered design to match old style wooden frames.
- Our range of PVC bi-fold doors is available in the same configurations as the aluminium doors, we only recommend PVC bi-folds for open in applications.
- We offer a range of thermally efficient vertical sliding windows, which combine the aesthetics of traditional wooden sliders without the need for painting.
- We offer a full range of PVC residential, French and patio doors to complement our range of windows, available in Super Fortress and Fortress styles and in all the colours.

#### Energy Rating

Energy Window	
Sternglaze Windows & Conservatories T/A Sternfenster Decoulinck 2800 PVC U decorative system fully reinforced Super Fortress A	
A B C D E F G	A
Energy Index (kWh/m <sup>2</sup> /year) (Energy Index certified by BRC and based on UK standard windows. The actual energy consumption for a specific application will depend on the building, the local climate and the indoor temperature)	0
The climate zone is:	UK
Thermal Transmittance (U <sub>frame</sub> )	1.4 W/m <sup>2</sup> .K
Solar Factor (g <sub>frame</sub> )	0.45
Effective Air Leakage (L <sub>frame</sub> )	0.00 W/m <sup>2</sup> .K
Reg. No.: 1445 M133 <a href="http://www.brc.org">www.brc.org</a>	
<small>This label is not a statutory requirement, it is a voluntary label provided as a customer service to allow consumers to make informed decisions on the energy performance of competing products.</small>	







#### Features and 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.



#### 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.

Committed to offering the best products at reasonable prices they provide a local service which the large National home improvement brands are not able to match. With products that are all Kite marked to the latest British and European standards they 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 they be to improve the appearance of your property, make it warmer or more secure or simply to make it maintenance free.



# sternfenster

window systems

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