

Natural Glazing

ALUMINIUM PRODUCTS

ROOFLIGHTS | WINDOWS | SLIDING DOOR | BI-FOLD DOORS

0333 006 2402 | enquiries@naturalglazing.co.uk

CONTENTS

01 FAQs

02 The Factory

03 Why Choose Aluminium?

04 SMART STYSTEM

05 Aluminium Rooflights

14 Aluminium Bi-Fold doors

21 Aluminium Bi-Fold door configurations

22 Aluminium Sliding doors

24 Aluminium Sliding door configurations

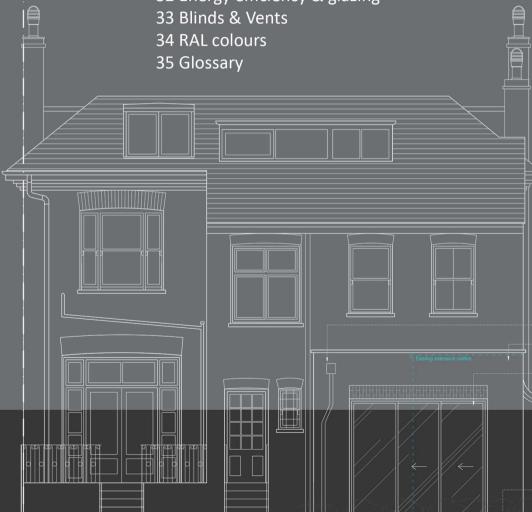
25 Aluminium Window configurations

29 Aluminium Window configurations

30 Security

31 Hardware

32 Energy efficiency & glazing



Natural Glazing

FREQUENTLY ASKED QUESTIONS

Q: Are the Bi-fold doors top or bottom hung?

Yes, the doors run on a bottom track but are guided by two wheels at the top.

Q: What threshold options are there?

We offer two threshold options, standard and low. Standard threshold is recommended for external use comes with a 100% weatherproof rating; and the low threshold is recommended for internal use only as it is not weatherproof.

Q: What guarantee do your products come with?

Our rooflights come with a 15 year manufacturer's guarantee and our bi-fold, sliding door and windows come with a 10-year manufacturer's guarantee.
Subject to terms and conditions.

Q: What colour options do you offer?

You may choose from the full range of RAL colours, however we do supply RAL 7016 (Anthracite Grey), RAL 9005 (Black) and RAL 9016 (White) as standard.

Q: What range of rooflight products do you supply?

We offer a range of 10 rooflight products varying from British standard compliant Flatglass units to certified automatic opening vents (AOV) which are fire rated products.

Q: What are the maximum height dimensions of your Bi-fold door system?

The maximum height including the frames are 2500mm with the multipoint locking system.

Q: What is the minimum & maximum width per bi-fold door leaf?

The minimum size is 600mm if there is an odd number of doors and 700mm if there is an even number of doors all folding one way. The maximum size is 1200mm per door leaf.

Q: What is the average lead time on your aluminium products?

The lead time is on average around 4-5 weeks for supply and fit.

Q: What is a U-value?

A U-Value is a measurement of insulation, in general the lower the value the more efficient the window as less fabric heat is lost through the glass or frame.

Q: What is the standard glass used in your Bi-folding doors?

We use a 28mm unit comprising of toughened glass with low E soft coat, warm edge spacers and argon gas filled.

THE FACTORY

All of our products are manufactured in-house so we take full responsibility for the quality of our range. With state of the art machinery and highly trained staff, we are able to produce a high volume of premium quality bespoke products every week.

The fact that our products are manufactured in-house also allows us to ensure each and every range meets our high quality demands and checks before it leaves our premises.

The whole production process is undertaken by our skilled staff who take pride in producing products to the very highest standard.









WHY CHOOSE ALUMINIUM?

Aluminium is fast becoming the first choice for the discerning homeowner when deciding on the material for their rooflights, bi-fold doors and windows.

Aluminium is renowned for its light weight and high strength and for that reason can be found in a whole host of everyday products around the home. Due to its long life and extremely low maintenance requirements, aluminium has become the perfect choice for homeowners when selecting new or replacement doors, windows and roof lights. Natural Glazing's preferred profile for bi-folds, sliding doors and windows is the Smart Systems who have over 35 years experience and are the leading supplier of window and door systems in the UK.

SMART

Smart Systems develop and supply to a large UK network of manufacturers and installers. They take great pride not only in the quality, breadth and depth of their product ranges but also in their design expertise and dedicated support services. All Smart Systems are designed with performance, looks and efficiency in mind with each frame incorporating a 'thermal-break'. This effectively insulates doors and windows against heat loss, raising a home's internal temperature and helping to reduce the risk of condensation.





The internal and external design compliments any home whilst flooding any room with maximum light. Maintenance for aluminium is simple and straightforward. Just a routine 'wipe-clean' is all that's required to keep the products looking their best. With no requirement for re-painting or re-varnishing, aluminium windows and doors will never fade, deteriorate or rust, even in harsh environments such as coastal locations where marine grade coating would be required.

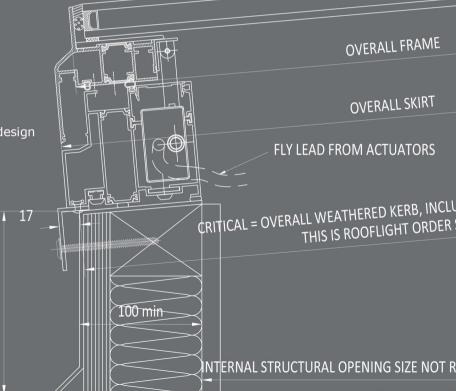


ALUMINIUM ROOF PRODUCTS

Whether replacing an existing roof or building a new extension, a rooflight from Natural Glazing is a great way to pull natural light into a room. Using the benefits of slim line technology we have combined stylish looks, outstanding thermal performance and outstanding detailing to create one of the finest looking products available for domestic and commercial projects.

DESIGN VERSATILITY

The versatility of the aluminium frame, section rafters and creative design solutions have removed the requirements for outdated bulky hood covers on roof lights.





ROOFLIGHTS AND THERMAL EFFICIENCY

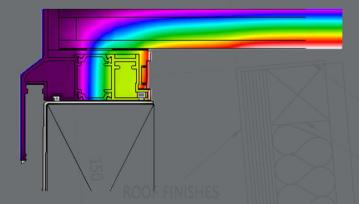
At Natural Glazing we take pride on aesthetics and clear sightlines using the slim profiles design, which is unmatched by any other manufacturer, creating a rooflight that can suit any dwelling.

Thermal insulation performance is one of the most important components, meaning you can enjoy knowing our rooflights are built for purpose...

- Comfortable year-round room use
- Reduced risk of condensation
- Lower heating and air conditioning bills.

Why compromise excellent double or triple glazing performance?

Choose the best insulated rafters in the industry with our roof lights.





TWICE AS EFFICIENT OVERALL ROKEY BENEFITSERB + 40

A U-Value (W/m2K) is simply a measure of heat loss from a building structure – for instance a roof, or a window and frame. A high U-Value means thermal insulation is poor whilst a low U-Value indicates a good thermal insulation.

As a glazed roof is made up of both glass and rafters, you want low U-Values from both. High performance glass is usually rated at 1.1 or 1.2 U-Value, but the value of roof rafters vary considerably. Our rafter has a U-Value of 1.5 W/m2k which is twice as thermally efficient as its nearest competitor (which are over 3).

When using doubled glazed Low E glass (U-Value 1.1W/m2k) the overall roof has a U-Value of as low as 1.2 W/m2k.

With thermal insulation performance that's twice as good as the competition, vou can enjoy:

- Comfortable, year-round room use.
- Reduced risk of condensation
- Lower heating and air conditioning bills.

THE FUNDAMENTAL DESIGN FEATURES

The strength of our roof system, enables the roof structure to withstand additional loads, such as the introduction of triple glazing.

It has been well documented that to achieve the best thermal properties for triple glazing, the glazing cavity between the glass panes should be 16mm. This results in a 44mm triple glazed unit which has superior U-values, compared to 28mm or 36mm triple glazing.



Our rooflights have been designed to be glazed with 28mm units, which have a U-Value as low as 1.1 W/m2k.

When using triple glazing Low E glass the rooflight has an overall U-Value of as low as 0.7 W/m2k centre pane value.

STRENGTH

Extreme weather and loads quickly expose inferior systems.

You can trust us from the start – independently tested as the strongest system available.

INDEPENDENT ACCREDITATION

Independent tests confirm our rooflights are one of the strongest glazed rooflight systems available in the UK, catering for domestic and commercial market.

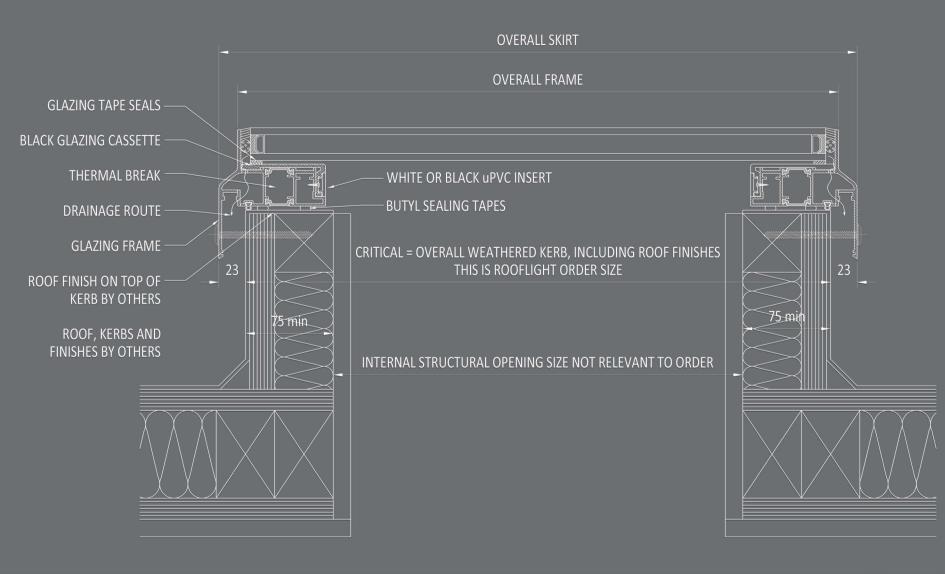
Our rooflights have been designed to withstand 33% greater live loads (wind/snow) outlined by British standards.

ADDITIONAL STRENGTH

- Reinforced Aluminium Frame
- Heat Soak Tested Glass
- PVB Laminate Glass
- PAS24 Secure by Design



FLAT ROOFLIGHT TECHNICAL SPECIFICATION





BI-FOLD DOORS ALUMINIUM VISOFOLD 1000

The bi-folding door is one of the most desirable home improvement products after new windows. No other glazed product offers the flexibility and desirability that a bi-folding door can and how it can transform a kitchen, living room or any room in the home.

The great advantage of aluminium bi-folding doors is that they can be made wider, larger and taller than their PVCu counterparts. Other advantages of bi-folding doors in aluminium are:

• Aluminium is a stronger material therefore uses a less bulky frame than PVCu.

- Aluminium thresholds are lower than PVCu. This means no inconvenient "step over" often found in PVCu doors.
- Aluminium doors are acknowledged as more reliable longer term as they will not expand and contract like PVCu.
- Aluminium is more expensive but will be the more cost effective solution longer term.







The Visofold 1000 bi-fold door is one of the most popular bi-fold door systems currently supplied in the UK. It can be used in domestic applications as either an alternative to sliding doors, or to open up an entire wall as part of a conservatory; the system will make the most of a beautiful view or bring a garden into the home.

Used commercially in a bar, café or restaurant, Visofold can create a glazed screen that allows in the maximum amount of light in bad weather, and will also easily glide to open up an entire wall in warmer weather.

Visofold 1000 doors offer a choice of openings to suit any application. When folded, door sashes can sit internally or externally.

All Visofold profiles feature a polyamide thermal break that enhances the thermal performance of the profile and improves the overall U-Value. Profiles feature EPDM high quality gaskets and weather brushes to aid weather resistance.

Aluminium is a very durable and does not bend, rot or rust – the ideal material for bi-fold doors.





Visofold complies with the requirements of Building Regulations Document L 2010. Security is assured by multi-point lock mechanisms on main opening sashes, and shoot-bolt locking on floating mullions.

All Visofold doors have the option of either low threshold for unimpeded, easy access, or rebated thresholds that offer improved weather resistance.

The low thresholds are designed for internal doors and doors in sheltered locations. Today many home owners are choosing to use these Smart's unique Sensations range of low thresholds even in exposed locations. The advice for these clients is simple only the rebated threshold has a weather rating guarantee.

All of the low thresholds installed in exterior doors run the risk of water and wind penetration in extreme weather conditions. We will of course do our best to reduce this possibility but homeowners are the people who accept that this could be a problem. Prepare your building correctly and it is possible to install the rebated threshold so it appears flush.

Visofold doors are available in a choice of standard or non-standard colours, including metallic, wood-structure, dual colour and textured finishes.





Architects, professional window companies and experts in doors all acknowledge that aluminium is a far superior material when it comes to bi-folding doors.

Not only does aluminium offer far greater strength than PVCu, but compare a PVCu and an aluminium bi-folding door side by side and you will instantly see how much slimmer the doors are in aluminium.

An aluminium bi-folding door will be stronger, lighter, slimmer, and give you more glass area – important to remember bearing in mind that your doors will probably be closed most of the year.

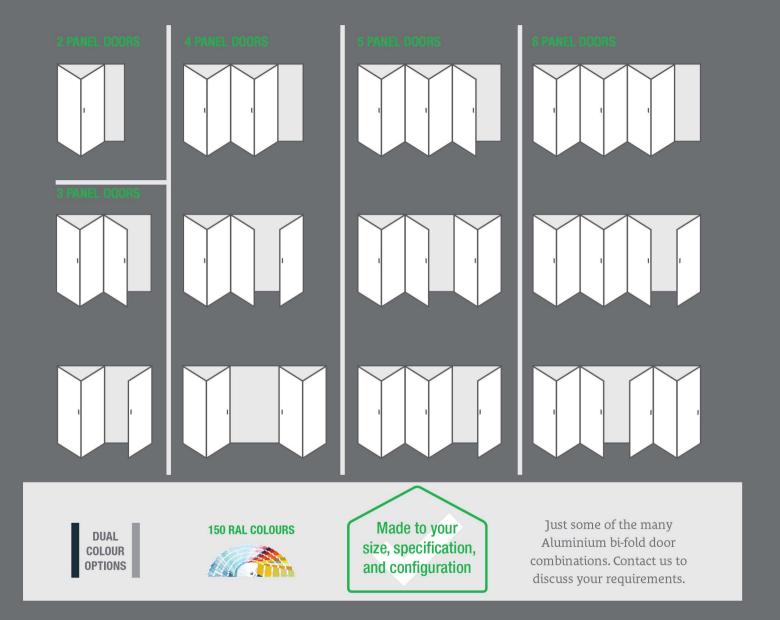


Our aluminium bi-fold doors benefit from - Attractive, slim-line profiles offer reduced sightlines.

Profiles available in either square or rounded edge options.

Fabricated using mitred corners, lock mechanism available with domestic style 'lift-up' handle and an adjustable, one-piece keep.





SLIDING DOORS ALUMINIUM VISOGLIDE PLUS

Our Smarts Visoglide Plus Patio door is just one of our range of high quality aluminium patio doors available for the home. Designed by one of the UK's biggest aluminium providers this is a highly reliable, tried and tested product.

Visoglide Plus offers the same contemporary styling and robust performance associated with the system whilst delivering superior thermal performance.

This adaptable system is suitable for use as either sliding commercial entrances where large opening apertures are required, or as dynamic residential sliding doors that maximise light and give stunning unimpeded views.

Visoglide Plus profiles have been designed to improve both strength and weather resistance. All main sections feature an extended polyamide thermal break that allows Visoglide Plus to achieve a U Value of 1.6 W/m²K when installed with a suitable sealed unit.

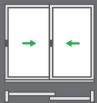
Visoglide Plus doors are available in both single and dual colour in wide choice of standard and non-standard finishes including Smart's unique Sensations range of textured colours. The system is also suitable for use with auto slide opening mechanisms (sold separately).

- Inline sliding or lift & slide options
- Slim interlock option
- Colour matched accessories now available, contact us for details
- British Standard Kite-marked system achieving: KM 530838 PAS 24:2012.

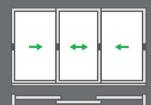




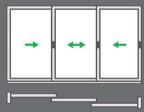
2 PANEL DOORS



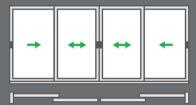
S PANEL DOORS



3 PANEL DOORS



A PANEL DOORS



DUAL COLOUR OPTIONS 150 RAL COLOURS



Made to your size, specification, and configuration

Just some of the many Aluminium bi-fold door combinations. Contact us to discuss your requirements.

WINDOWS

ALUMINIUM ALITHERM 300

This versatile range of profiles can provide many solutions for residential and light commercial applications. We can create traditional casement windows inspired by the elegance and styling of timber products, or contemporary style windows designed for modern homes or offices.

Alitherm 300 profiles utilise Smart's innovative polyamide thermal break technology which creates a barrier between the cold air outside and the warm air inside. This technology significantly reduces thermal transmittance and enhances the overall U-Value of a product and is designed to meet the exacting requirements of Document L 2010.

Alitherm 300 products are available in a choice of standard or non-standard colours, including metallic, dual colour, Smart's Sensations textured, and Alchemy anodised effect finishes.







The system features an extended polyamide thermal break which improves the overall U-Value of the profile, allowing Alitherm 300 to achieve a Window Energy 'A' Rating when used in conjunction with the correct double or triple glazed unit.

The system is suitable for both internally or externally beaded, side or top hung open out windows.

These profiles have the option of either chamfered or flat sash.

The Alitherm 300 windows have a high security multi-point locking system.

We can create made-to-measure windows to order and compliment any property style.





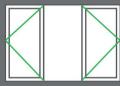


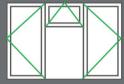


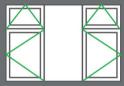




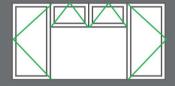


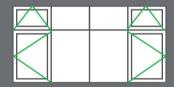












DUAL COLOUR 150 RAL COLOURS



Made to your size, specification, and configuration

Just some of the many Aluminium bi-fold door combinations. Contact us to discuss your requirements.



SECURITY

You can have peace of mind knowing your home will be secure with high security multi-point hook locking mechanisms fitted as standard to our sliding doors, and shoot bolt locks on bi-folds with internally glazed sealed units.

Windows come with multi-point locking systems and a high security interlocking bead – which is extremely difficult to remove once glazed.



High security window lock



High security bi-fold door lock



High security hook lock



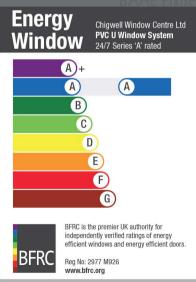
Bi-fold door hinge

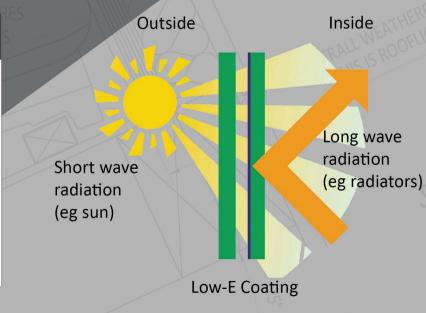




ENERGY EFFICIENCY & GLAZING

All our aluminium profiles feature polyamide thermal break barriers between the cold outside and the warm inside. They exceed the performance requirements of current building regulations and will accept a range of glazing options, keeping your home warm and comfortable whatever the weather and significantly educing your energy bills.





INTEGRAL BLINDS

Dusting blinds is a thing of the past with our electric and manual integral blinds. The magnetic control allows users to control the raising and lowering of the blind in between the glass as well as the tilting of the Venetian aluminium slats, making for a sleek innovated design.

The magnets themselves are small and purposely designed to be hidden amongst the frame of the window.

Or if you really want to impress the neighbours our new remote blinds system is becoming increasingly popular with many of our customers. It's the luxuryand convenience of operating your blinds at the touch of a button, without leaving the comfort of your own chair.

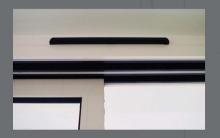


TRICKLE VENTS

As our homes are becoming more and more airtight to reduce the amount of heat loss through the building fabric, it is necessary to allow for ventilation in the interest of providing a means of changing the air and preventing condensation.

A trickle vent is a small opening in a window or door to allow small amounts of ventilation.





RAL COLOURS

Aluminium is not only extremely strong, light and durable but it has the benefit of being powder coated in over 150 RAL colours, a polyester powder-coat paint which is baked onto the aluminium that creates a high quality, durable and tough finish that can withstand all weather conditions.

Whatever your colour choice we can help, contact us to discuss your requirements.



WHITE RAL 9016 ANTHRACITE GREY RAL 7016

BLACK RAL 9005

Glossary

Extrusion

A form produced by forcing material through a die. Most window frames are clad with extruded vinyl or aluminium.

Lintel

A lintel is a reinforced beam that is used above doors and windows to support the above brickwork so that it isn't being supported directly onto a window or door.

Low E glass

Insulated coated glass that helps reduce energy loss.

Mullion

Vertical bars on windows or doors, to divide whole sections up.

Multipoint Locking System

Both the door and the frame are locked together at multiple points.

Pane

A glass unit

Patio Door

A sliding glass panel door (going out to a patio garden).

To help you understand the terms we use to describe our products we have put together a glossary of terms, please see below:

Polyamide

Also known as "polyamide thermal break". Part of the Aluminium extrusion which thermally separates the front and the back of the Aluminium - thus keeping the cold outside Aluminium physically away from the Aluminium on the inside of the door.

Profile

Lengths of plastic that makes the window or door frames.

RAL / KL / BS Colours

A paint industry standard way of referring to different colours. You choose a RAL / KL / BS colour reference from a colour chart. You can specify a gloss level of your paint too. The gloss level options are Gloss. Semi-Gloss and Matt. **Self-Cleaning Glass** Treated with a special coating on the outer surface, self-cleaning-glass uses UV from sunlight plus water (from rain or washing) to prevent dirt and dust adhering to the surface.

Shoot-bolts

A form of high security locking system used in windows.

SIII / CII

External window ledge.

Surveyin

An accurately detailed inspection and measurement report of the site.

Tempered Glass

Toughened safety glass designed to shatter with no sharp edges.

Thermal Brea

The gases used in insulated glass panes is used as a thermal break to prevent the thermal energy being dispersed between the glass.

Toughened Glass

Glass that has been treated and put under heat and coolant processes.

Traffic Doo

A door that can be used like a standard hinged door without having to fold the other panels to use it. With a traffic door you can enter the room from outside. Without a traffic door you cannot enter the room from outside

Threshold

The threshold is the bottom of the door which you step over as you go in and out of the door.
A standard threshold offers the best weather performance - but is higher overall than the low threshold.

Trickle Vent

A ventilation system to allow fresh air into the room whilst keeping the doors closed/locked to maintain higher air quality. Traditional 'trickle vents' are fitted in the head extension of the outerframe to achieve the ventilation required.

