



Glass and Glazing Federation



FINELINE.

POWERED BY



WINDOWS AND DOORS, MADE IN AND FOR, THE UK

Combining cutting-edge innovation and performance with elegant design and effortless style, our extensive range of PVC-U windows and doors bringing form and functionality to your home.

Offering the highest levels of security and energy efficiency, technology meets slim sight-lines and an extensive choice of finish to suit your home – each designed and manufactured in the UK.



4-5	Making your home warmer
6-7	What makes our windows and doors energy efficient?
8-9	Making your home more secure
10	A choice of style
11	Subtlety or Statement?
	WINDOWS
12	Windows
13	Technical overview
14-15	Choosing the right style
16-17	Hardware
18-19	Window colours
20-21	Window energy efficiency
	SLIDING PATIO, FRENCH & BI-FOLDING DOORS
22	Sliding patio, French & bi-folding doors
23	Technical overview
24-25	Sliding patio doors
26	French doors
27	Technical overview
28-29	Bi-fold doors
30	Security



MAKING YOUR HOME WARMER



Windows and doors can account for up to 25 per cent of the total energy lost from your home, so your new windows, doors, conservatory or glazed extension need to deliver – not just look great.

All of our ranges are manufactured to the highest standards, meeting and far exceeding all current regulations in the UK for window and door energy efficiency with Window Energy Ratings of up to A+ and U-values as low as 1.0W/m2K.

Whatever your choice of style or finish, it means that your new windows and doors are going to keep your home warm and secure for years to come.

Your guide to Window Energy Ratings (WERs)

Whether you're thinking about buying new double or triple-glazed windows or doors you need to know how they're going to perform.

Windows and doors can look the same, but deliver wildly different levels of performance.

Window Energy Ratings provide a simple 'traffic light system' measure of performance. This includes a combined measure of how good it is at:

- 1 - Keeping draughts out,
- 2 - The warmth that it adds to a property through solar-gain,
- and
- 3 - How effective it is at stopping heat loss - something measured in construction as a U-value.

A similar scheme using different calculations also exists for doors (DERs).

Windows and doors can account for up to 25 per cent of the total energy lost from your home

WHAT MAKES OUR WINDOWS AND DOORS ENERGY EFFICIENT?



Glass

Glass is the single most important factor in defining the energy performance of your new windows and doors. Our glass supplier, is at the leading edge of innovation. With a proud reputation of being a market leader globally in glass sealed unit manufacturing.

All of the double and triple-glazed glass units that we supply use smart low-e coatings on glass - a one-way door for trapping and holding energy.

We also use warm-edge spacer bars, which separate the sheets of glass in double and triple-glazed units to put 'space' between the cold air outside and warm air inside. This cavity is filled with argon gas. It's completely inert in the environment and you can't see it but because it's denser than air. It creates a highly effective insulating barrier, helping to keep your home warm and cosy on event the coldest of days.

To help you select the right level of comfort for your home, we've developed our range into three clear options.

Just choose the one that's right for you.

Energy Standard

Keep your home warm and comfortable

Comfort

Choose better security and better sleep

Comfort Plus

For the perfect balance of light, warmth and comfort

Comfort Feature	Energy Standard	Comfort	Comfort Plus
Energy Efficiency	✓	✓	✓
Enhanced Security		✓	✓
Noise Reduction		✓	✓
Furniture Fade Protection		✓	✓
Reduce Overheating			✓

Windows, doors and glazed extensions

Our PVC-U windows and entrance doors are manufactured in the UK's leading Olympus Collection, with over £18 million of investment you can be confident your windows and doors are the most advanced in the market today.

Our frames feature an internal 'honeycomb' multi-chamber system, which create a series of thermal barriers between the warm air inside your home and cold air outside of it (see the window technical overview on page 13).

Window energy efficiency

1. Low-e coatings on glass create a thermal barrier, preventing heat transfer.
2. Warm-edge spacers used to make up glazing units create space between warm air inside and cold air outside.
3. Gap created by the spacer bar is filled with inert high density gas. Denser than air, it provides an additional barrier to heat transfer.
4. 'Honey-comb' chambers inside PVC-U windows create multiple thermal-breaks.
5. Thermally efficient, recycled composite material reinforcements used in place of energy inefficient steel reinforcements, further improve energy efficiency. (please note full steel may be required in some applications for structural reasons).

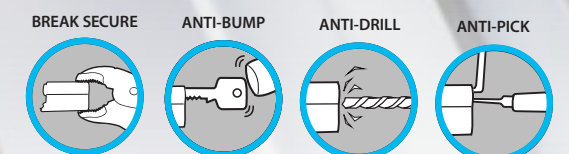
MAKING YOUR HOME MORE SECURE

Windows and doors are potential 'weak points' in home security so choosing designs with the right combination of security features is important in protecting your home from potential intruders.

All of our windows and doors feature the latest multi-point locking systems and robust hardware, delivering the highest levels of window and door security.

For added peace of mind, we also offer a number of enhanced security options, to upgrade your windows and doors to a level endorsed by the UK Police's, Secured by Design Scheme through our supplier Emplas, for accredited products please see: (<https://www.securedbydesign.com/member-companies/sbd-members?>) and search for Emplas Window Systems Ltd.

Your security and that of your home and family, matters.



WINDOWS

Our windows feature the latest innovation in attack resistant and robust PVC-U frames and hardware.



Up to 6 point locking technology with two locking points per shootbolt (if selected) and double cam locking centrally



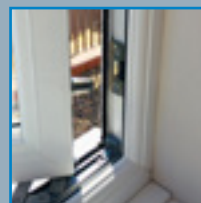
Developed to withstand even the most determined intruder. Tested by an independent test laboratory to over 3,500N force



Patented docking system prevents sideways movement of the shootbolt when under attack (if selected)



Heavy duty bolt has up to 300 per cent greater contact area against competitor shoot-bolts (if selected)



Resistant to salt spray (BSEN1670) and cycle tested over 50,000 times for ultimate long-term performance



Meets and exceeds all current building standards including PAS24 (when dog bolts and laminated glass are selected where appropriate)



A CHOICE OF STYLE AND FINISH AS INDIVIDUAL AS YOUR PROPERTY

Your choice of window and door design, will help to define the character of your property. From country cottage and period features of traditional box sash windows, to bold statements and contemporary urban designs, all of our windows and doors can be tailored to perfectly complement your very own 'grand design'.

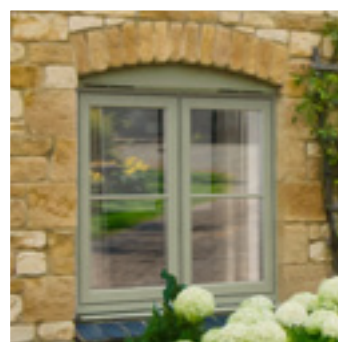
Window styles

Our windows are manufactured Profile 22's new Optima PVC-U profiles - a classically sculptured (QS), a simpler, chamfered (QC) frame design or 'heritage' flush sash timber replacement. Each offering the highest levels of energy efficiency and slim stylish sightlines. Whatever your choice for your property you can be sure your new windows will be secure, energy efficient and low maintenance.

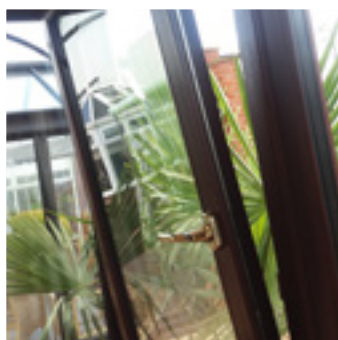
THE OLYMPUS COLLECTION



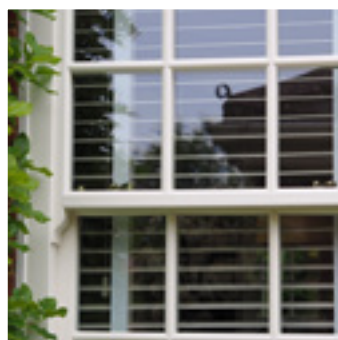
Casement



Flush casement



Tilt-and-Turn



Vertical Sliding Sash Windows

SUBTLETY OR STATEMENT?

COLOUR AND FINISH CHOICES THAT ARE RIGHT FOR YOUR HOME

Colour will give shape and definition to your choice of window or door. Our window and door frames are available in an extensive palette of colours and woodgrain finishes that bring huge flexibility to your choice of window or door design.

Our durable foiled finishes are applied as part of the manufacturing process and come with a full 10-year guarantee.

It means that whatever the character of your property, you can choose a low maintenance foiled finish that's right for your home from subtle heritage colours to bold greys, classic woodgrains or sophisticated and understated white.

All colours are a visual representation only.

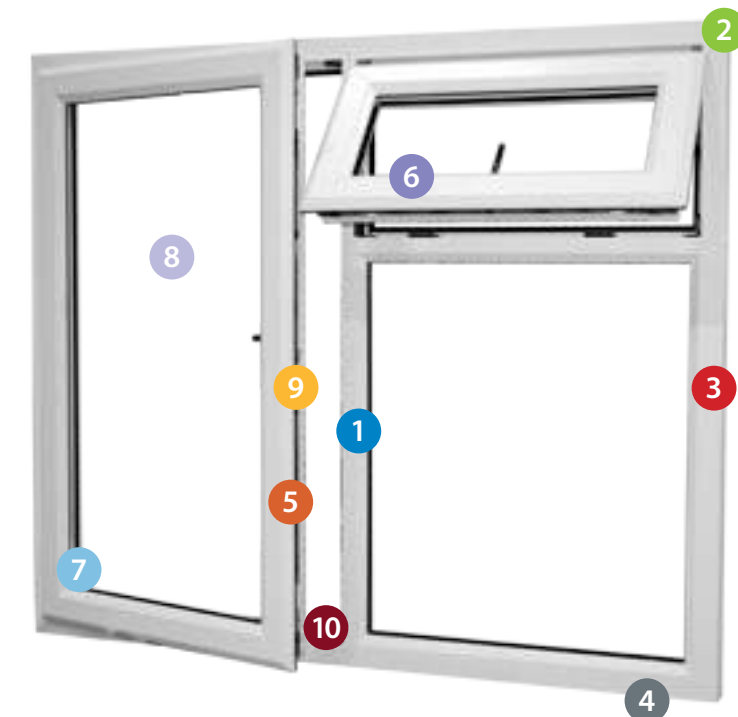
WINDOWS

Good windows start with high performance window systems, robust hardware and the latest innovations in glass technology but it's the vision, which you have for your home, which turns 'good' into 'great'.

We'll guide you through the options to help make that vision a reality. Double or triple-glazed, box sash or casement, foiled or white – our windows can be designed to define or to complement the unique character of your home and just as importantly, your individual aspirations for it.

WINDOWS – TECHNICAL OVERVIEW

Our window ranges are the product of over £18 million of investment in energy efficiency, security and system development.



THE OLYMPUS COLLECTION

- 1 Slim sightline window frame featuring sculptured, chamfered and flush framing options plus extensive choice of colour and finish options
- 2 Thermally efficient outer frame featuring six 'honeycomb' chambers and five chamber sash
- 3 Energy efficient recycled composite material or full steel reinforcement options
- 4 Deeper drainage channels carry water away quickly improving weather performance
- 5 10mm cover on weather seals for ultimate weather tightness
- 6 Specially designed hardware fixing points and local thickening of frame walls to improve screw retention improving security
- 7 High security internal glazing system
- 8 Energy efficient double and triple-glazed glazing options featuring warm-edge spacers and low-e coatings to achieve WERs of up to A+ and U-values as low as 1.0W/m2K
- 9 Up to 6 point locking technology with two locking points per shootbolt and double cam locking centrally. Patented docking system prevents sideways movement of the shootbolt when under attack
- 10 Meets and exceeds all current building standards including PAS24 (PAS 24 requires dogbolts and laminated glass where applicable)



CHOOSING THE RIGHT STYLE OF WINDOW FOR YOUR HOME

Every home is different, which is why we offer a wide range of window styles and colour options. Making the right choice is about working out not only the best fit to the character of your property but also thinking about how you want to live in it.

Choosing a window style is the starting point. The handles or any colour or finishes you then add, will further define the appearance of not just your windows but your home as a whole. We'll work with you to help you make the perfect choice.

FRAME DETAILING

Our casement and tilt-and-turn windows are available in a choice of sculptured, chamfered or flush frame systems.



SCULPTURED DETAIL

Sculptured detailing offers a more traditional decorative finish replicating the curves found on traditional timber windows.



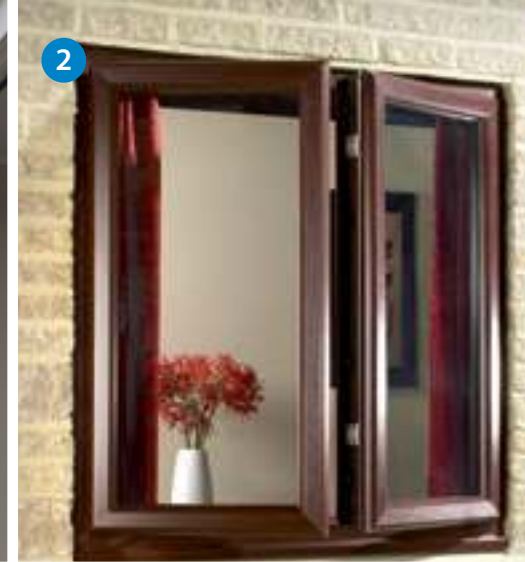
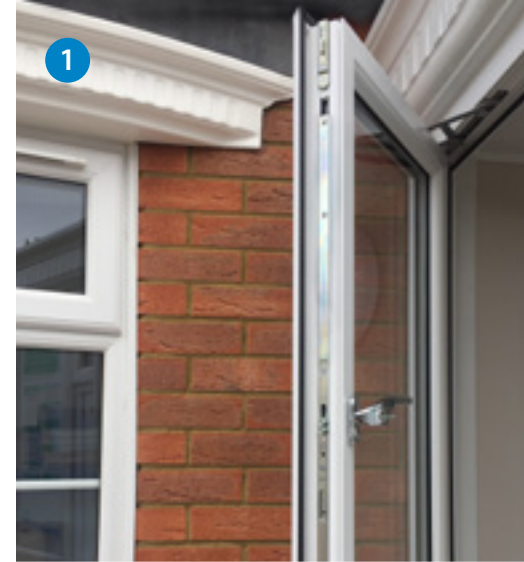
CHAMFERED DETAIL

Chamfered detailing features a more contemporary and simpler bevelled edge, with straight sightlines.



FLUSH SASH DETAIL

Our flush-frame windows feature a dedicated slim-line window sash which sits flush with the outer frame. This recreates the aesthetic of a period casement timber window in a low maintenance and energy efficient option.



1 CLASSIC CASEMENT

Timeless and with classic appeal, our range of beautiful and flexible casement windows can be designed to complement period properties or contemporary homes delivering perfectly balanced sightlines.

2 FRENCH CASEMENT

Featuring the same classic styling, our casements are designed so that they don't require a central mullion (upright). Opened, it means views are uninterrupted. With no fixed mullion, you can be confident our windows comply with the fire regulations for escape.

3 FLUSH CASEMENT

Outward opening top hung casement windows are a contemporary British design.

4 TILT-AND-TURN

The ideal solution where external access is an issue, tilt-and-turn windows can be swung into a room for cleaning. Streamlined and contemporary, they're great for wide variety of properties. Tilt-and-turn windows are also available in a flush finish.

5 VERTICAL SLIDING SASH WINDOWS - CONSERVATION WINDOWS

Our sensational conservation windows combine the sought-after aesthetics of traditional timber with the exceptional modern performance of uPVC. Our timber-alternative range is highly sought-after, providing an indistinguishable appearance which expertly re-creates skilled timber joinery whilst delivering the durability, low maintenance and efficiency of uPVC.

6 GEORGIAN ASTRAGAL BARS

Our georgian astragal bar range allows you to bring additional period character your design. Running horizontally or vertically across the glazed units of your casement or sliding sash windows, astragal and georgian bars replicate the appearance of the jointing between panes of glass on a traditional Georgian window.



WINDOW HARDWARE AND FURNITURE

High Security Locking and Weather-tightness

The seal formed between the fixed window frame and opening sash is a critical element in door security and weather-tightness.

Our windows feature eight-point locking as standard and nine point locking on larger window sizes. As well as locking the window along the sash, our heavy duty multi-point locking system provides a dedicated fix in each corner.

This makes it far harder for intruders to force it open but also improves the weather seal. Our patented docking system also prevents the sideways movement of the locking keep when under attack from intruders.

Independently tested to 3kN* force - in the PAS24 Security test – it gives you absolute peace of mind that every element of hardware design is optimized to keep intruders out.

* Our windows withstood a load of 6kN - double the test standard. A copy of this letter confirming the test results can be supplied upon request.

Our range of elegant and ergonomically designed handles bring form to functionality. Designed to fit naturally into the user’s hand, they exude quality to the touch.


Beautifully crafted, our Signature™ hardware range is available in premium quality white and black powder coated finishes; chrome plated; and gold and satin electroplate finishes.

Contemporary
sculptured cranked handle
available in both LH & RH variants

Push to release
locking mechanisms

Secure
key locking

Attractive
flush fitting push button




Colour-coded
push button & screw cover cap

Corrosion resistant
tested to BSEN1690 grade 5
salt and ammonia attack. Ideal
especially in coastal areas


Available
in five high quality finishes: white,
black, chrome plated, gold plated,
and satin plated

Designed to last
cycle tested over 10,000 times
under operational load


Chrome




Satin



Gold



White



Black



WINDOW COLOUR AND WOOD-GRAIN FINISHES

Colour is a powerful design tool.

It can make your windows and doors seamlessly blend into the materials that surround them, delivering a subtle finish, which suggests that they have always been there.

It can drive bold statement designs which exude contemporary sophistication.

Or colour can sit anywhere in between – the choice is yours.

Our extensive colour and finish range from traditional woodgrain options, to contemporary greys and subtle creams and whites brings incredible design flexibility to low maintenance and energy efficient PVC-U windows and doors.

All colours are a visual representation only.



*Colours above show our standard colour range available for windows. Additional colours available see opposite.

COLOUR OPTIONS

Colour is a powerful design tool.

It can make your PVC-U windows and doors seamlessly blend into the materials that surround them, delivering a subtle finish, which suggests that they have always been there.

It can drive bold statement designs which exude contemporary sophistication.

Or colour can sit anywhere in between – the choice is yours.

Our extensive colour and finish range from traditional woodgrain options, to contemporary greys and subtle creams and whites brings incredible design flexibility to low maintenance and energy efficient PVC-U windows and doors.



COLOUR CODES/ COLOUR MATCH

The colour match data is given in good faith.

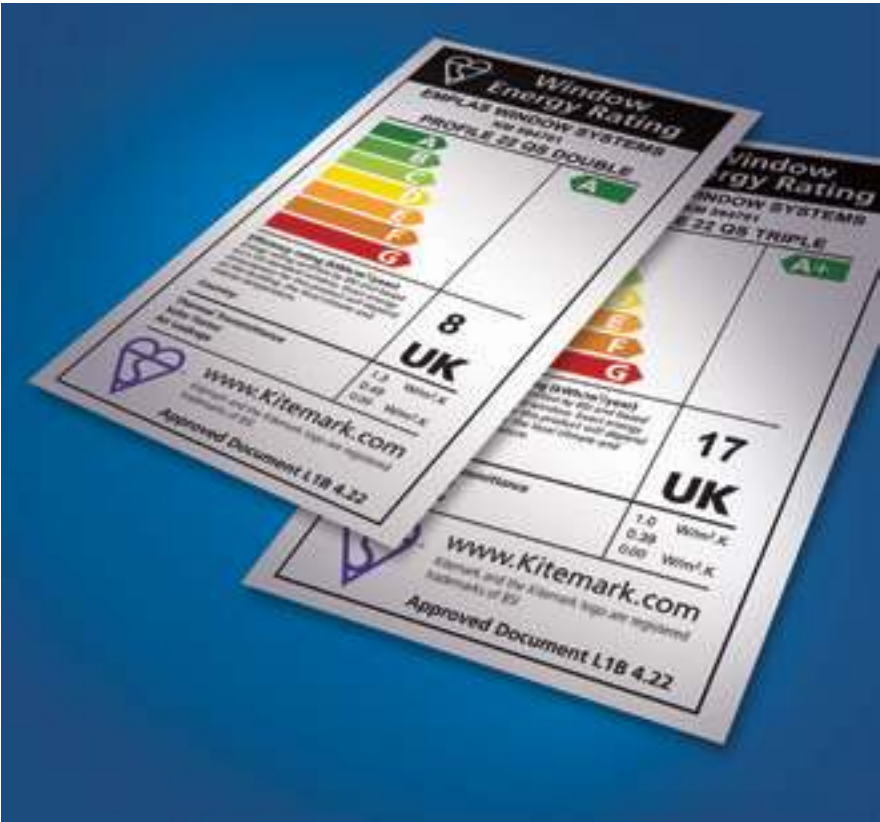
Please note that RAL colour codes are the nearest match only and, therefore, not exact matches with the foil.

THE OLYMPUS COLLECTION

WINDOW ENERGY EFFICIENCY

Building Regulations may dictate minimum standards but our energy efficient double and triple-glazed windows go far beyond, keeping you warmer and saving you money, year round.

Achieving Window Energy Ratings of up to A+ and U-values as low as 1.0W/m2K, our windows are designed to be energy efficient from the inside out.



ENERGY EFFICIENT FRAMES

Our window frames feature five thermally efficient internal chambers in the sash and six in the outer frame. This thermally efficient 'honey-comb' creates a series of barriers between the heat inside your home and cold air outside.

We enhance frame energy efficiency even further whenever possible, by swapping highly conductive steel for far more thermally efficient and ultra-strong recycled composite material reinforcements.

HIGH PERFORMANCE GLAZING UNITS

All of the double and triple-glazed glass units that we supply, are via our glazing partner. We use smart low-e coatings on our glass - a one-way door for trapping and holding energy.

We also use warm-edge spacer bars which separate the sheets of glass in double and triple-glazed units to put 'space' between the cold air outside and warm air inside, insulating it in the process.

You can therefore be assured of advanced thermal efficiency in a beautifully crafted and low maintenance window.



TYPICAL WERS

Achieves A with double glazing*
A+ achievable with triple glazing**

- * Except Flush Casement Window
- ** Except Flush Casement Window and Vertical Sliding Sash. Standard 36mm triple achieves A+ Energy rating.

TYPICAL U-VALUES

Achieves 1.3 W/m2K with double glazing*
Achieves as low 1.0 W/m2K with triple glazing**

- * 1.3 W/m2K on flush casement window
- ** Triple Glazing not available on Flush Casement Window or Vertical Sliding Sash Window.

SLIDING PATIO DOORS

Capable of spanning wider distance, sliding-doors leave the view from your property almost uninterrupted and create a great year-round connection between indoor and outdoor spaces.

Manufactured in thermally efficient and low maintenance PVC-U profiles and featuring high security multi-point locking mechanisms, we supply the market leading PatioMaster Sliding Patio Door. Luxurious soft open and close technology, contemporary finishes and slim sightlines mean that our inline sliding door range provides a seamless connection from your home to garden.

SLIDING PATIO DOORS, FRENCH DOORS AND BI-FOLDING DOORS

Inline Sliding patio doors, French doors and Bi-folding doors are about summer and much more. From relaxing on a warm evening with a glass of wine with friends and family to watching the autumn leaves fall and the seasons change, each opens a window to the world outside.

Whether you decide on a slim sightline and space saving patio door, classic and timeless French Doors, or contemporary Bi-folding doors, your choice will make a perfect connection between your home and garden.



PatioMaster
IN-LINE SLIDING PATIO DOOR

- 1 Slim sightline multi-chamber energy efficient framing system
- 2 Smooth glide lightweight opening and closing mechanism tested to 150,000 cycles
- 3 White, wood-grain and colour options (see page 35)
- 4 High performance energy efficient A-Rated 28mm glazing as standard
- 5 Two three or four pane options
- 6 Steel reinforcement
- 7 Six point locking system with anti-jacking technology for outstanding security as standard
- 8 Anti-lift brackets fitted as standard to all sliding sashes
- 9 Featuring anti-bump cylinders if SBD is selected
- 10 Low track low threshold options for ease of access (internal use only)
- 11 Weather seals prevent draughts and leaks
- 12 Secured by Design Option available (in two pane option) through our supplier Emplas, for accredited products please see: <https://www.securedbydesign.com/member-companies/sbd-members/view=companyaz&letter=e> and search for Emplas Window Systems Ltd.



PAS 24 Security Keep Rail Jamb & Keep Rail Head

SLIDING PATIO DOOR OPTIONS

Our Sliding Patio Doors offer incredible design flexibility, so finding a combination that's right for your individual home is simple.

- 1 Decide on a door combination, choosing either from two, three or four pane options
- 2 Take your pick from our range of colours (see page 19)

GLASS

All of our sliding doors come with A Rated energy efficient glass which is toughened for your families safety.

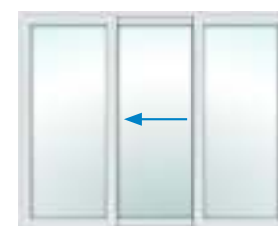
HANDLES

Our high security handles are manufactured from robust materials to an attack resistant design. Available in White, Chrome, Gold, Satin and Black, they feature a special scratch resistant finish and are guaranteed for 10-years.

2 PANE OPTION



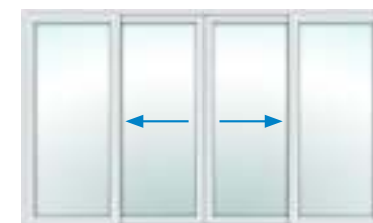
3 PANE OPTIONS



3 PANE OPTIONS



4 PANE OPTION



CLASSICALLY DETAILED, TRADITIONAL DESIGNS

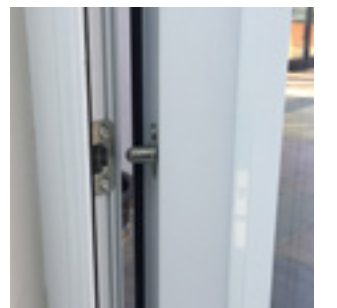
French doors create a timeless and classic connection between your home and garden. Low maintenance and energy efficient, our Sculptured and Chamfered PVC French Door framing systems, emulate the traditional detailing of timber doors.

This traditional design is combined with multi-point locking and profile reinforcement, to deliver the highest standards in entrance door security. A choice of colours and finish, complementing its classic appeal.

FRENCH DOORS



Optima
BY PROFILE 22 SYSTEMS



THE OLYMPUS COLLECTION

- 1 70mm slim sightline frame featuring sculptured and chamfered options plus extensive choice of colour and finish options (see page 19)
- 2 Thermally efficient outer frame featuring six 'honeycomb' chambers and five chamber sash
- 3 Energy efficient recycled composite material or full steel reinforcement options
- 4 Deeper drainage channels carry water away quickly improving weather performance
- 5 8mm cover on weather seals and optional dog bolt security upgrade available on hinge side of door
- 6 Specially designed hardware fixing points and local thickening of frame walls to improve screw retention and improved security
- 7 High security internal glazing system
- 8 Energy efficient double glazed options featuring warm-edge spacers and low-e coatings to achieve WERs of up to A+ and U-values as low as 1.2W/m²K
- 9 High security multi-point locking system providing the ultimate burglar deterrent
- 10 Meets and exceeds all current building standards including PAS24 (when 3* cylinder and laminated glass is selected)

Choose the perfect frame detail to match your new or existing windows and doors.



SCULPTURED DETAIL
Sculptured detailing offers a more traditional decorative finish replicating the curves found on traditional timber windows.



CHAMFERED DETAIL
Chamfered detailing features a more contemporary and simpler beveled edge, with straight sightlines.

THE ULTIMATE WAY TO HARMONISE YOUR HOME AND GARDEN

Bi-folding doors are a great way of connecting your home to your garden and the world outside. With an effortlessly stylish and sleek architectural high security Aluminium bi-fold doors bring cutting edge innovation to your home.

Connecting interior and exterior spaces, they feature the highest levels of security, energy efficiency and weather performance by default.

KEY FEATURES OF ALUMINIUM BI-FOLDING DOORS

- Slim aluminium frames mean frames and glass can be larger, maximising light and spanning larger areas with fewer door uprights to interrupt views
- Available in two to six panel options
- Smooth, easy glide rolling system
- High security multi-point locking system
- Anti-bump, anti-pick and anti-drill door cylinder option
- 'Push' flat/open intermediate door handle sitting flush with frame
- Low threshold option
- Low maintenance – frames won't warp, rust or twist
- PAS24 accredited



SECURITY

PEACE OF MIND, BUILT IN

With one home in England and Wales broken into every seven seconds – the majority by forcing or kicking a door – your doors and windows are in the ‘frontline’ in the battle to protect your home from intruders.

All of our doors and windows are designed to give you and your home the highest levels of protection, featuring multi-point locking and reinforced frames.

We can also supply doors and windows to the Secured by Design Police Preferred Specification through our supplier Emplas, for accredited products please see:

<https://www.securedbydesign.com/member-companies/sbd-members?view=companya2z&letter=e>
and search for Emplas Window Systems Ltd.





ACCREDITATIONS AND REGULATIONS

Our door and window ranges are manufactured to the highest standards in compliance with controls set out in British Standards ISO9001, which ensure a commitment to consistent product quality.

Meeting and far exceeding current UK Building Regulations, your new windows, doors or conservatory are future-proofed for years to come.

OUR COMMITMENT TO THE LATEST REGULATIONS AND STANDARDS

- PAS24: enhanced security for doors*
- Part M, (Access to and use of Buildings) compliance*
- Part Q (Security: Dwellings) compliance
- Part L (Conservation of Fuel and Power), compliance
- ISO 9001, Quality Management System approved to ISO 9001
- Environmental Management Policy approved to ISO 14001
- Health and Safety management policy approved to ISO 18001
- CE Marking approval
- Secured by Design (SBD)* through our supplier Emplas, for accredited products please see:

<https://www.securedbydesign.com/member-companies/sbd-members>

- U-Value reports independently provided by BuildCheck

*Optional specially selected product configurations only

PEACE OF MIND BUILT IN



SEHBAC Show Centres

0800 666 444
www.sehbach.com

Rayleigh

Alton Garden Centre
Arterial Road
Wickford
Essex
SS12 9JG

Capel St. Mary

Bypass Nurseries Garden Centre
London Road
Capel St. Mary
IP9 2JR

Warlingham

Knights Garden Centre
Limpsfield Road
Warlingham
CR6 9DZ

Great Amwell

Van Hage Garden Centre
Pepper Hill
Great Amwell
Hertfordshire
SG12 9RP

Chelmsford

2 Baynes Place
Waterhouse Lane
Chelmsford
Essex
CM1 2QX

Ipswich

1 Olympus Close
Ipswich
Suffolk
IP1 5LJ

Abingdon

Milletts Farm Centre
Kingston Road
Frlford
Oxfordshire
OX13 5HB

Marks Tey

Poplar Nurseries
Coggeshall Road
Marks Tey
Colchester
CO6 1HR

Woburn Sands

Frosts Garden Centre
Newport Road
Woburn Sands
Milton Keynes
MK17 8UE

Chesham

Crown Business Estate
Berkhampstead Road
Chesham
HP5 3ET

Colchester

2 Stanway Retail Park
Peartree Road
Colchester
CO3 0LX

FINELINE Show Centres

01622 631613
www.fine-line-windows.co.uk

Maidstone

Newnham Court Shopping Village
Bearsted Road
Maidstone
Kent
ME14 5LH

Dartford

Hawley Garden Centre
Hawley Road
Dartford
Kent
DA2 7RB



Glass and Glazing
Federation



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