

The **Complete** Collection

Uncompromised style and performance



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 and Aluminium 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.



Proud to be
Made in Britain

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Proud to be Made in Britain



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).

28mm Double Glazing



36mm Triple Glazing





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



Keep your home warm
and cosy on even the
coldest of days

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 even the coldest of days.

Windows, doors and glazed extensions

Our PVC-U windows and entrance doors are manufactured in the UK's leading Profile 22 Optima system, with over £18 million of investment from Profile 22 and our manufacturing partner Emplas Window Systems, you can be confident your windows and doors are the most advanced in the market today.

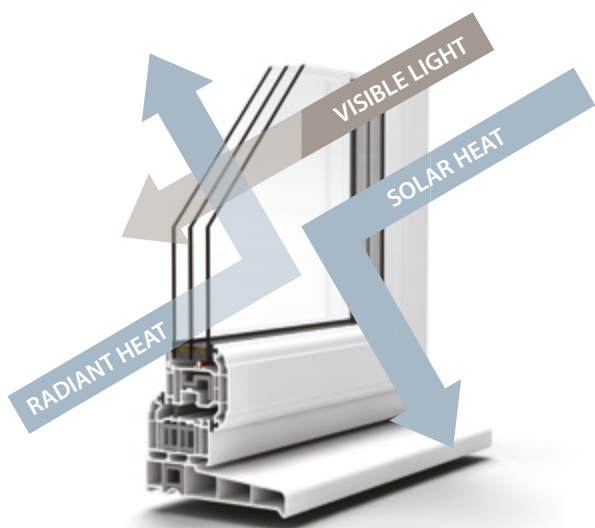
Our frames feature an internal 'honeycomb' multi-chamber system, which create a series of thermal barriers between the warm air inside your home and cold air outside of it (see the window technical overview on page 15).

PVC-U and composite doors

The same principles are applied in PVC-U panel and composite front and back doors. These use a tough high density polyurethane foam core in the leaf to provide exceptional levels of insulation.

The exact energy efficiency of your new door will depend on a number of different factors including the style of door and glass you choose but all feature our warm core foam technology.

This maximises the thermal efficiency of your new composite door, making it up to almost 20 per cent more energy efficient than a traditional solid timber door.



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).

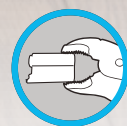
MAKING YOUR HOME MORE SECURE

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

BREAK SECURE



ANTI-BUMP



ANTI-DRILL



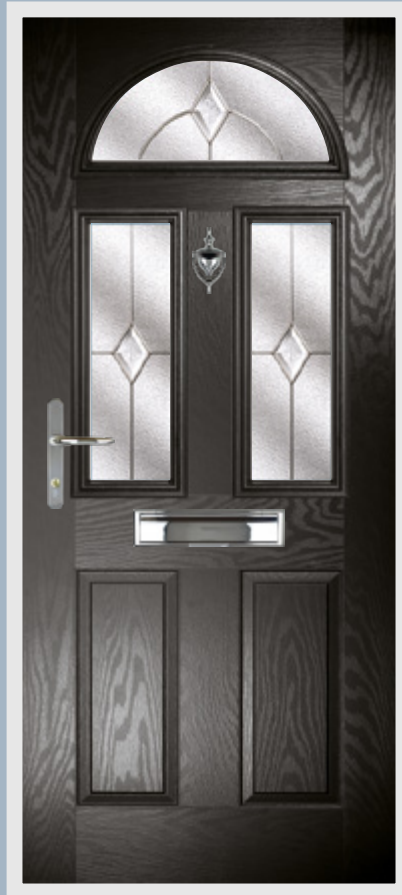
ANTI-PICK



COMPOSITE DOORS

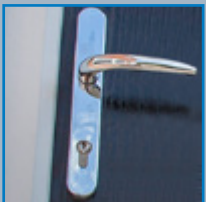
Our front and back door composite door ranges are supplied to the highest security levels and meet Secured by Design standards through our supplier Emplas, for accredited products please see:

<https://www.securedbydesign.com/member-companies/sbd-members> and search for Emplas Window Systems Ltd (when supplied with laminated glass and security letterplate).



Be sure it's secure

Meets and exceeds all current building standards including PAS24



Robust handles manufactured from either stainless steel, zinc or aluminium



Toughened laminated glass energy efficient units provide increased resistance to attack, if selected. All glazing is supplied as Energy PLUS, incorporating 'Low E' glass and Argon filled



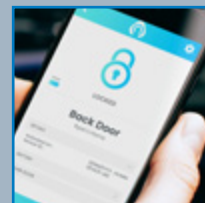
Break secure, anti-bump anti-drill and anti-pick cylinder



High security multi-point locking with inbuilt smart technology as standard



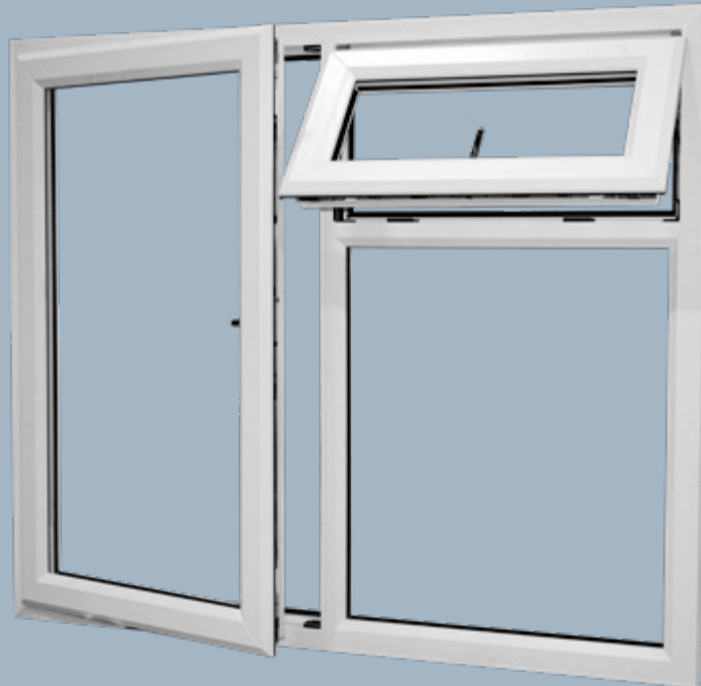
Recycled composite material used for strength, increased security and insulation purposes



Kubu Equipped Doors as standard. Kubu uses smart and simple technology to monitor your lock status in real time

PVC-U 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



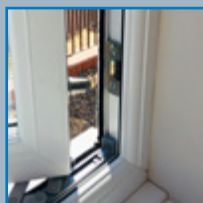
Developed to withstand even the most determined intruder. Tested by an independent test laboratory to over 3,500N force



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.



Casement



Flush Casement



Tilt-and-Turn



Fully Reversible



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.

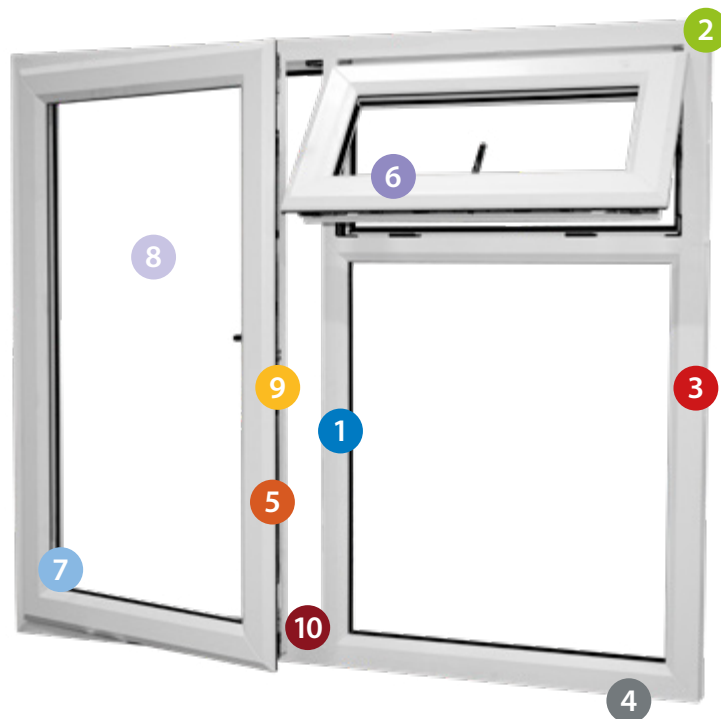
PVC-U WINDOWS

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.



Optima™

MADE IN BRITAIN®

- 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, tilt-and-turn and fully reversible 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

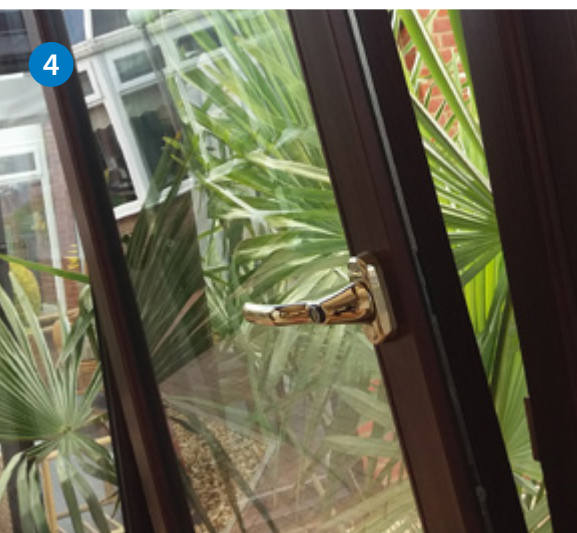
Chamfered detailing features a more contemporary and simpler bevelled edge, with straight sightlines.



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.

Mechanical joints as shown are available when selected.



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 french 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 with 90° mechanical-joints on the Optima Flush sash casement, which combines a technically advanced multi-chamber PVC-U system with traditional timber sightlines.

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.

5 FULLY REVERSIBLE

Like tilt-and-turn windows, fully-reversible windows are great where access for cleaning can be a problem rotating 180°. This advanced solution is also available in a flush casement finish.

6 VERTICAL SLIDING SASH WINDOWS

The classic choice for Georgian, Victorian and Edwardian properties, our box sash windows bring 21st century innovation and energy efficient to period styling.

7 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 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 upon request see page 39

