The **Composite Door** Collection

Uncompromised style and performance





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FIVE EASY STEPS























Proud to be Made in Britain

NOT ALL DOORS ARE MADE EQUAL

Our composite doors combine the latest innovations, to keep your home warm and secure, whatever the weather. Emulating the natural beauty of wood with an energy efficient warm core technology and high security, smart ready multi-point locking system, our composite doors are and elegant addition to any home.

Manufactured to the British Standards Institute kitemark accreditation for Quality Management, BSI9001, they're also built to last.





Multi-point smart equipped locking

High security steel hooks fully penetrate the door frame keeps, which help to prevent the door sash and frame from being forced apart. A steel deadbolt delivers maximum strength to the centre of the door.

Some images appear to be smooth but all slabs in this brochure are woodgrained.

1 The appearance of natural timber but without the maintenance

Composite doors emulate the natural appearance of a traditional timber door but without the associated maintenance. They won't warp or expand and don't require painting. A tough and durable timber-grain effect impact resistant GRP skin, will stand up to the knocks bangs and scrapes that family life throws at it!

Insulated thermally efficient core

Our doors are manufactured from a thermally efficient and tough high density polyurethane foam core. This has been specially developed to significantly reduce the transfer of heat, making our doors



almost 20 per cent better at keeping the warmth inside your home and your energy costs lower, than a traditional solid timber door.

Sound insulation

The polyurethane core offers great sound insulation, reducing outdoor noise by an average of 31dB.

4 Colour choice

Choose from 9 standard -colour finishes or a choice of 37 premium colour options, making the colour choice for your home as individual as you are.



Weathertight

The insulated core is protected from water and moisture ingress by a high performance polymer skin. This is specially constructed to prevent the delamination which can effect lesser quality doors, guaranteeing performance



for years to come. Strong stainless steel door hinges and robust gaskets ensure that the door makes the perfect seal against the frame. Our doors are also fully tested to all relevant British Standards.

6 Energy efficient glazing

Our doors feature the latest in energy efficient double and triple-glazed glass technology to keep your home warmer.

Manufactured to the British Standard BS1 EN1279, this includes a full choice of glass types and styles from privacy glass to coloured, crystal and leaded finishes,



which means you can design the perfect door for your home.

BSI Kitemark accredited handles and hardware

Our doors are manufactured to the highest security standards. BSI Kitemark accredited multi-point locking mechanisms, keeps and handles are included as standard. You can choose



anti-lift, anti-drill and anti-pick locking cylinders that meet and exceed all current building standards including PAS24:2016, because your security and that of your home and family matters.

8 Mobility

All of our doors come with an optional mobility low threshold, ideal for wheelchair use or with pushchairs. Our hinges also open past 90 degrees for optimal access.

Ooor furniture

Define your style with a choice of handles, letter-plates, door knockers and spy holes available in satin, white, gold, chrome and black finishes. See page 49 for more details.



10 Hinges

High spec hinges with traditional and improved aesthetics provided without any compromise to the user friendly mechanics, or security performance. Our hinges also open past 90 degrees for optimal access.



With one home in England and Wales broken into every seven seconds – the majority by forcing or kicking a door – your front or back door is at the 'frontline' in the battle to protect your home from intruders.

All of our doors can be supplied 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 and search for Emplas Window Systems Ltd

PEACE OF MIND BUILT IN

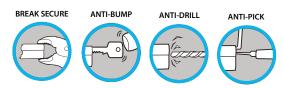
This means that they meet not only the requirements for door security set out in PAS 24:2016 and Part Q of Building Regulations* but have been independently tested as doing so, as defined by the police approved Secured by Design scheme.

Setting the Standard for Door Security

Our doors have been independently tested against the following type of assault:

- Manual attack on the locking hardware with tools including screwdrivers, chisels and mole grips
- Three minute attacks on the door cylinder using a range of tools including craft knifes and screw drivers
- •Three minute manual attacks using chisels and brick bolsters
- Hard-body impact testing of the leaf, hinge and locking points using a 50kg steel impactor.





- $\hbox{*}Optional\ specially\ selected\ product\ configurations\ only,\ upgrade\ includes\ laminated\ glass\ and\ letterplate}$
- ** Supplied through our supplier Emplas, for accredited products please see:

 $https://www.secured by design.com/member-companies/sbd-members \ and \ search \ for \ Emplas \ Window \ Systems \ Ltd$

The Emplas Composite 44mm Residential Door System range has been designed, tested and achieves the standard to meet Secured By Design.

Multi-point locking

High security steel hooks fully penetrate the door frame keeps, which help to prevent the door sash and frame from being forced apart. A steel deadbolt delivers maximum strength to the centre of the door.





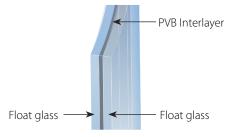
High security door cylinder

Anti-bump, anti-drill, anti-pick and anti-snap Kitemarked cylinder lock options available.



Reinforcement and thickening of door frame

The use of reinforcements and local thickening of the door frame provide a stronger fix and improved hardware retention and screw through-pull, locking the sash and frame firmly together.



Laminated glass units

Internally glazed 6.8mm 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.





Robust hinges

Supplied as standard, stainless steel hinges provide resistance to resistance testing with 50kg steel impactor. Featuring minimalist aesthetic design lines.

Secured By Design Letterplate**

Designed to meet the exacting requirements of TS008. It's suitable for doorsets that need to be Document Q or PAS 24: 2016 compliant. Manufactured from 304 Stainless Steel for ultimate corrosion resistance.







Door style is Augusta long in Agate Grey featuring Athena glass



10 YEAR GUARANTEE

DURABLE AND LONG-LASTING, A DOOR WITH PEDIGREE, TRIED AND TESTED FOR OVER 20 YEARS

- Strength from its construction, incorporating an LVL (Laminated Vaneer Lumber subframe)
- High impact resistant door skin, 4mm thick GRP as standard
- Stability, whatever the weather conditions
- A full 10-Year Guarantee

PEACE OF MIND BUILT IN









SECURITY LOCKED IN... INTRUDERS LOCKED OUT.

Our Thumbturn operation is specially designed to beat the wire bypass entry threat associated with standard thumbturn locks. Document Q building regulations and PAS24 compliant design.

- SS312 Sold Secure Diamond Grade
- 3 Star British Kitemark TS007:2014 (KM 586153)
- Anti snap technology
- Pick, Drill & Bump Resistant
- Polished Chrome/Brass or Matt Brass options
- Trap Pins for advance pick resistance
- Anti-drill pins
- Double, and thumbturn formats available
- Multiple keys per cylinder
- Keyed alike key/key pairs are available
- · Master keying on request



Anti drill



BREAK SECURE









ANTI-PICK



Anti screwdriver













KUBU EQUIPPED DOORS



Be sure it's secure

How many times have you thought...have I locked my door? We've all been there!

With Kubu you'll never have to worry if your door is unlocked again.

Kubu uses smart and simple technology to monitor your lock in real time. You'll be able to check the status of your door no matter where you are, at any time of the day, right from the Kubu app on your phone.

With Kubu say goodbye to uncertainty and hello to peace-of-mind.

Be sure it's secure

What does the Kubu App do?

- It lets you see the status of your door (locked/unlocked).
- \bullet Get notifications with every turn of the key.
- You can schedule notifications when you want.
- It shows the history of your doors.
- You can share your door with family and friends.
- Its perimeter feature helps to prevent you from leaving your home unlocked.

Download the app

Kubu Home Hub

Door Module

Kubu Equipped Doors

To activate your Kubu Equipped Door Lock and make it smart, you will need to purchase your Kubu Smart Kit from www.kubu-home.com

Once your Kubu Home Hub arrives

- 1 Simply follow the QuickStart guide that comes with the Kubu Smart Kit in order to get set up.
- 2 During set up you will be prompted to enter a door reference code, this is on the dummy module that is within the Kubu lock smart activation slot

Be sure it's secure

- From any place in the world.
- · At anytime, day or night.
- On all the doors in your home.
- On all the homes that you look after.
- * Please note: Kubu Smart Technology is not available on slam shut doors.





Your composite door will include Smart technology, as standard.

Almost all white goods that we buy come with a colour coded and alphabetical energy rating running from A to G, with 'A' indicating the highest level of energy efficiency.

Well, it's exactly the same for doors and windows.

UNDERSTANDING DOOR ENERGY EFFICIENCY

The exact energy efficiency of your new door will depend on a number of different factors including the style of door you choose and glass 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.







1 Foam core

High Density polyurethane foam core provides an insulating thermal barrier between warm air inside the home and cold air outside



3 High performance door gasket

High performance door gasket and adjustable door hinges deliver a firm and consistent compression between the door frame and sash, stopping draughts



2 Thermally efficient door frame

Multi-chamber thermally efficient composite door frame



4 Threshold

Weather proof threshold and brushes reduce the flow of air under the door





CHOOSING YOUR DOOR

Your choice of door defines the individual character of your property.

Choose the perfect complement for your home from our refined collection of energy efficient and beautifully crafted doors.

From the elegant understatement of a traditional design or stylish contemporary statement door, you can build the perfect match for your property.

This includes a choice of finish from a carefully chosen palette of colour options, sophisticated glass designs and as a final touch, combining function and form, our range of high quality door furniture.

1 STEP ONE

Choose your door style from one of our elegant traditional and stylish contemporary designs



2 STEP TWO

Choose your side light if required



STEP THREE

Select a colour option from one of seven standard colour finishes or choose one of our bespoke colour options



4 STEP FOUR

Choose a glass design



STEP FIVE

Pick your favourite options from our high quality range of door furniture







CARNOUSTIE, BIRKDALE & PENINA



Style: Carnoustie
Colour: Black
Glass: Artisan
Hardware: Gold



Style: Carnoustie
Colour: Blue
Glass: Lanesborough* Blue

Hardware: White



Style: Carnoustie
Colour: Green
Glass: Impression
Hardware: Chrome



Style: Carnoustie
Colour: Red
Glass: Birchwood
Hardware: Black



Style: Carnoustie
Colour: Rosewood
Glass: Prestige
Hardware: Gold



Style: Carnoustie
Colour: White
Glass: Diamonte
Hardware: Chrome

^{*} Lanesborough glass is not available in Birkdale & Penina options





Penina

CARNOUSTIE, BIRKDALE & PENINA*

Our most popular composite door option which is now available in a choice of three glazing styles.

^{*} Lanesborough glass is not available in Birkdale & Penina options



LYTHAM & LYTHAM GRID

The large glazed area of the Lytham lets light flood through which can also be enhanced with the Gridlite option.

LYTHAM & LYTHAM GRID



Style: Lytham
Colour: Black
Glass: Impression
Hardware: Chrome



Style: Lytham Colour: Blue Glass: Athena Hardware: Chrome



Style: Lytham Colour: Green Glass: Artemis Hardware: Gold



Style: Lytham
Colour: Red
Glass: Athena
Hardware: White lever pad



Style: Lytham
Colour: Golden Oak
Glass: Impression
Hardware: Gold



Style: Lytham Grid
Colour: White
Glass: Optimal
Hardware: Black





Riviera



Portrush



Sunburst*

RIVIERA, PORTRUSH & SUNBURST

A traditional favourite with just a hint of modern, the Riviera is also available in Portrush and Sunburst options as shown

RIVIERA, PORTRUSH & SUNBURST



Style: Riviera
Colour: Black
Glass: Prestige
Hardware: Chrome



Style: Riviera
Colour: Blue
Glass: Impression
Hardware: Chrome lever pad



Style: Riviera
Colour: Azure
Glass: Tranquility Zinc

Hardware: White



Style: Riviera
Colour: Clotted Cream
Glass: Artemis
Hardware: Black lever pad



Style: Riviera
Colour: Rosewood
Glass: Birchwood
Hardware: Gold



Style: Riviera
Colour: White
Glass: Tranquility Zinc
Hardware: Satin lever pad

ST ANDREWS



Style: **St Andrews** Colour: Black Glass: Impression Hardware: **Gold**



Style: **St Andrews** Colour: Wedgewood Glass: Artemis

Hardware: Chrome lever pad



Style: **St Andrews** Colour: Olive Grove Glass: Panama Hardware: Chrome



St Andrews Style: Colour: Red Glass: **Tranquility Zinc** Hardware: Black lever pad



St Andrews Style: Colour: Rosewood Glass: **Impression** Hardware: Gold



Style: St Andrews Colour: White Glass: Panama Hardware: Satin lever pad

^{*} Please note that glazing cassettes on this style of door have visible screw caps (unlike all other styles in the range).









ST ANDREWS

Reminiscent of the door styles of the 1930's, the St Andrews door is available as a solid door option as well as a glazed version.





Troon



Muirfield



Colonial

TROON, MUIRFIELD & COLONIAL

A traditional six panel design gives the Classical interest and detail, while colonial or top-light only options give you a strong sense of privacy and security.

TROON, MUIRFIELD & COLONIAL



Style: Troon
Colour: Black
Glass: Impression
Hardware: Chrome



Style: **Troon**Colour: **Mulberry**Glass: **Tranquility Zinc**Hardware: **White**



Style: Troon
Colour: Agate Grey
Glass: Artemis
Hardware: Gold



Style: Troon
Colour: Diablo
Glass: Birchwood
Hardware: Satin lever pad



Style: Troon
Colour: Rosewood
Glass: Prestige
Hardware: Gold



Style: Troon
Colour: White
Glass: Tranquility Zinc
Hardware: Black lever pad

SUNNINGDALE



Style: Sunningdale
Colour: Black
Glass: Prestige
Hardware: White



Style: Sunningdale
Colour: Azure
Glass: Impression
Hardware: Chrome lever pad



Style: Sunningdale
Colour: Chartwell Green
Glass: Artemis
Hardware: Black lever pad



Style: Sunningdale
Colour: Bolero
Glass: Birchwood
Hardware: Satin lever pad



Style: Sunningdale
Colour: Mulberry
Glass: Tranquility Zinc
Hardware: Gold



Style: Sunningdale
Colour: Stormy Seas
Glass: Impression
Hardware: Gold





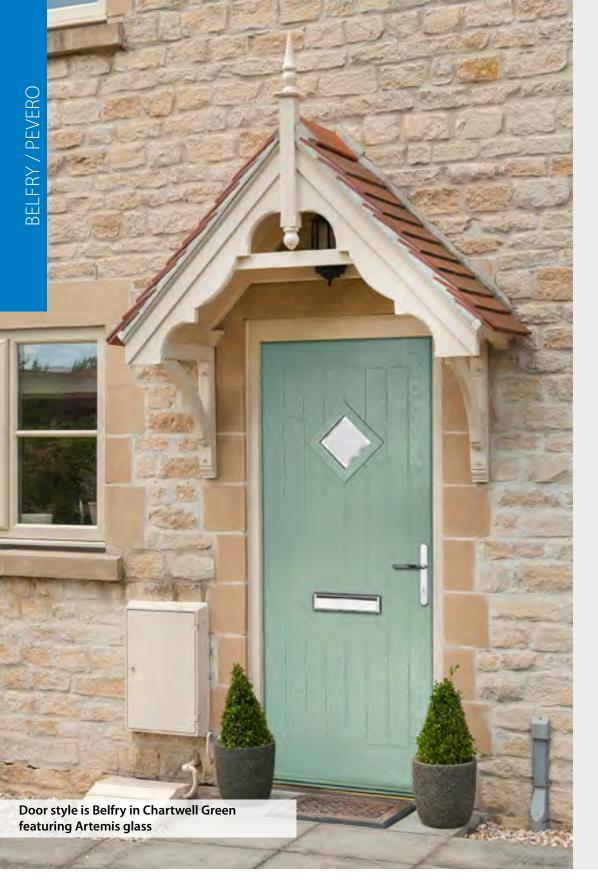




Farmhouse Solid

SUNNINGDALE

The Sunningdale is available with a wide range of glass designs.





Belfry



Belfry3



Pevero

BELFRY / PEVERO

Unlike other 'cottage' doors in the market, the Belfry has a unique 'offset etched' detailing and comes in two glazing styles.

BELFRY / PEVERO



Style: Belfry
Colour: Anthracite
Glass: Grange
Hardware: Chrome



Colour: California
Glass: Artemis
Hardware: Chrome lever pad



Style: Belfry
Colour: Diablo
Glass: Grange
Hardware: Black lever pad



Style: Belfry 3
Colour: Red
Glass: Artemis
Hardware: Satin lever pad



Style: Belfry 3
Colour: Moonshine
Glass: Grange
Hardware: Gold



Style: Belfry 3
Colour: Clotted Cream
Glass: Artemis
Hardware: Gold

GLENEAGLES



Style: Gleneagles
Colour: Black
Glass: Artemis
Hardware: White



Style: Gleneagles
Colour: Blue
Glass: Impression
Hardware: Chrome lever pad



Style: Gleneagles
Colour: Green
Glass: Artemis
Hardware: Black lever pad



Style: Gleneagles
Colour: Red
Glass: Synergy
Hardware: Satin lever pad



Style: Gleneagles
Colour: Slate Grey
Glass: Impression
Hardware: Gold



Style: Gleneagles
Colour: White
Glass: Birchwood
Hardware: Gold



GLENEAGLES

With its American styling, the Gleneagles composite door is proving to be as popular here in the UK.

With its clean crisp sightlines, flush finish and bold glazing options Augusta is a true statement door. Evoking the glamour of the art deco period, its sophisticated styling is carried through to a dedicated contemporary hardware range.

CONTEMPORARY DOORS

DOOR LIGHT AND GLASS OPTIONS

Esprit provides a canvas for your creativity. It's your choice of door light design and the glass that you decide to put in it, that really brings this stylish and contemporary door to life.

Door light design options include minimalist single centre or off-centre designs, through to repeating 'stacked' designs. A choice of cool curves or stunning diamond bursts lights are also available.

Shape the character of your door further with your choice of glass, from simple privacy glass to more detailed designs.

HARDWARE OPTIONS

In addition to our standard ranges, Augusta comes with a dedicated range of pull handles. Available in three different sizes, handles feature a contemporary satin stainless steel finish, the refined design providing the all-important finishing touch to the design of your door.



550mm 720mm 1400mm

(Indicative lock position only for the 550mm, 720mm and 1400mm)

The 550mm and 720mm pull handle, the key position is 928mm from the bottom of the slab.

The high key position on the 1400mm pull handle, the key position is always 1379.5mm from the bottom of the slab.



Pull bar outside only incorporates our Cylinder Door Pull (E80700/01/02)



Pull bar both sides incorporates our Pull Bar Escutcheon in satin (DAAFSSOVE)



Thumbturn Cylinder

With our Unique "Click Secure" thumbturn design our thumbturn euro cylinder provides a simple method of opening and closing the door from the inside without a key, and allows for a quick and safe exit in the event of a fire. * Kubu Smart Technology not available on this range.







SEMINOLE



Style: Seminole 3C
Colour: Citrine
Glass: Birchwood

Hardware: Stainless Steel 550mm

Pull Bar



Style: Seminole 3C Colour: Cotswold Glass: Impression

Hardware: Stainless Steel 720mm

Pull Bar



Style: Seminole 3C
Colour: Florida
Glass: Artemis

Hardware: Stainless Steel 1400mm

Pull Bar



Style: Seminole 4L
Colour: Wedgewood
Glass: Birchwood

Hardware: Stainless Steel 720mm

Pull Bar



Style:Seminole 4LColour:Very BerryGlass:Tranquility ZincHardware:Stainless Steel 1400mm

Pull Bar



Style: Seminole 4C
Colour: Twilight
Glass: Artemis

Hardware: Stainless Steel 720mm

Pull Bar

^{*} Indicative lock position only, Kubu Smart Technology not available on this range.

MONZA II AUGUSTA / MONZA II AUGUSTA LONG



Style: **Monza II Augusta Solid**Colour: **Cotswold**

Glass:

Hardware: Chrome



Style: Monza II Augusta
Colour: Agate Grey

Glass: Artemis

Hardware: Stainless Steel 1400mm

Pull Bar



Style: Monza II Augusta
Colour: Moonshine
Glass: Impression

Hardware: Stainless Steel 1400mm

Pull Bar



Style: Monza II Augusta
Colour: Mushroom
Glass: Luxor

Hardware: Stainless Steel 550mm

Pull Bar



Style: Monza II Augusta
Colour: Mulberry
Glass: Impression

Hardware: Stainless Steel 720mm

Pull Bar



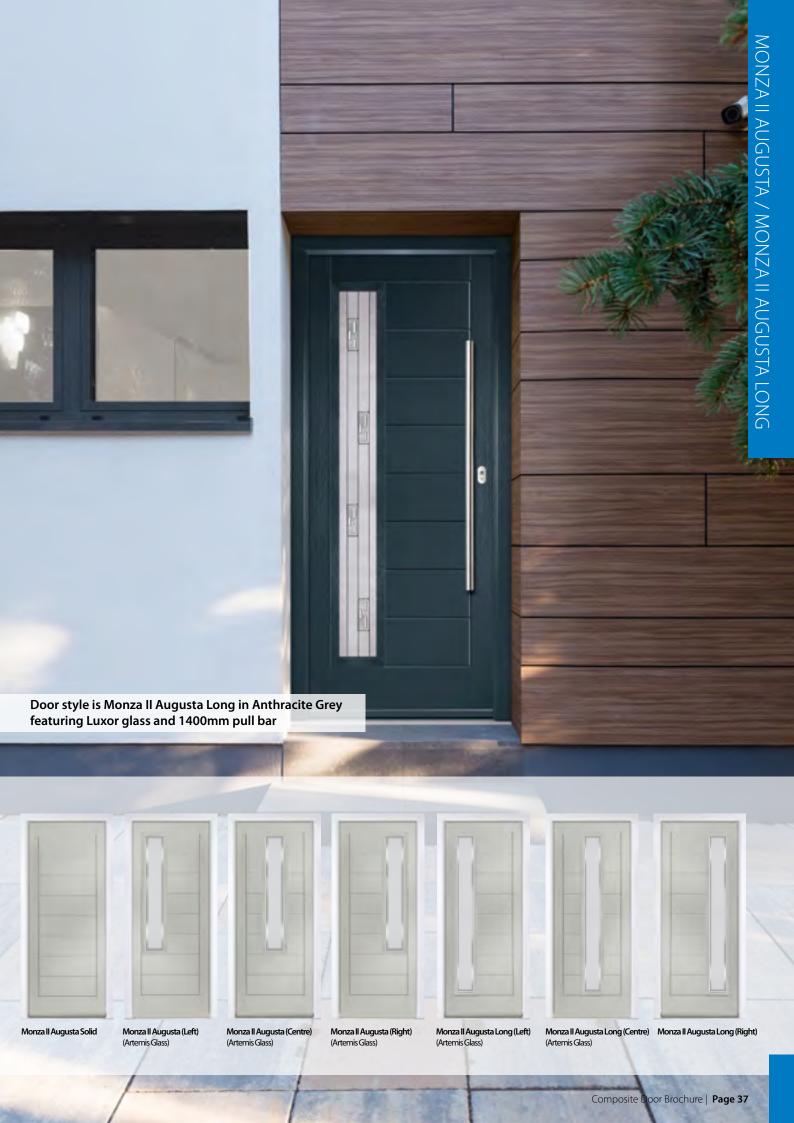
Style: Monza II Augusta Long

Colour: Stormy Seas
Glass: Athena*

Hardware: Stainless Steel 1400mm

Pull Bar

^{*} Glass Style Available for the Monzall Augusta Long





AUGUSTA / AUGUSTA LONG



Augusta Long Style: Colour: Sandstone Glass: Athena*

Hardware: Stainless Steel 1400mm

Pull Bar



Style: **Augusta Long** Colour: Sage Green Glass: Luxor

Hardware: Stainless Steel 1400mm

Pull Bar



Style: **Augusta Long** Very Berry Colour: Artemis Glass:

Hardware: Stainless Steel 1400mm

Pull Bar



Style: **Augusta Long** Colour: Bolero Glass: Impression Hardware: Stainless Steel 550mm

Pull Bar



Style: **Augusta Long** Colour: Florida Glass: **Artemis**

Hardware: Stainless Steel 1400mm

Pull Bar



Augusta Style: Colour: Black **Artemis**

Hardware: Stainless Steel 720mm

Pull Bar

CHANTILLY FARMHOUSE / CHANTILLY FLUSH



Style: **Chantilly Farmhouse**

Colour: Clay
Glass: Prestige

Hardware: Stainless Steel 550mm

Pull Bar, letterplate chrome



Style: Chantilly Farmhouse
Colour: Stormy Seas
Glass: Tranquility Zinc
Hardware: Stainless Steel 720mm
Pull Bar, letterplate chrome

Style: Chantilly Farmhouse

Style: Chantilly Farmhouse
Colour: Victory Blue
Glass: Artemis

Hardware: Stainless Steel 1400mm

Pull Bar, letterplate chrome



Style: Chantilly Farmhouse Colour: Vanilla

Glass: **Vanilla**Grant Artemis

Hardware: Stainless Steel 720mm
Pull Bar, letterplate chrome



Style: Chantilly Farmhouse
Colour: Emerald
Glass: Birchwood

Hardware: Stainless Steel 1400mm
Pull Bar, letterplate chrome



Style: Chantilly Farmhouse
Colour: Clotted Cream
Glass: Tranquility Zinc
Hardware: Stainless Steel 720mm
Pull Bar, letterplate chrome

Letterplate position for illustration purposes only. Position may vary. Indicative lock position only. Kubu Smart Technology not available on Pull Bar Versions.





SIDELIGHTS - MAKING MORE OF AN ENTRANCE

Sidelights make more of the entrance to your home. Carnoustie, Birkdale, Penina, Monza, Troon Muirfield and Solid also come with matching side lights. We also offer PVC-U frame side screens.

SIDFLIGHTS



Style: Carnoustie side light with Lytham door

Colour: Black
Glass: Athena
Hardware: Chrome



Style: Birkdale side light and door

Colour: Black
Glass: Diamonte
Hardware: Chrome





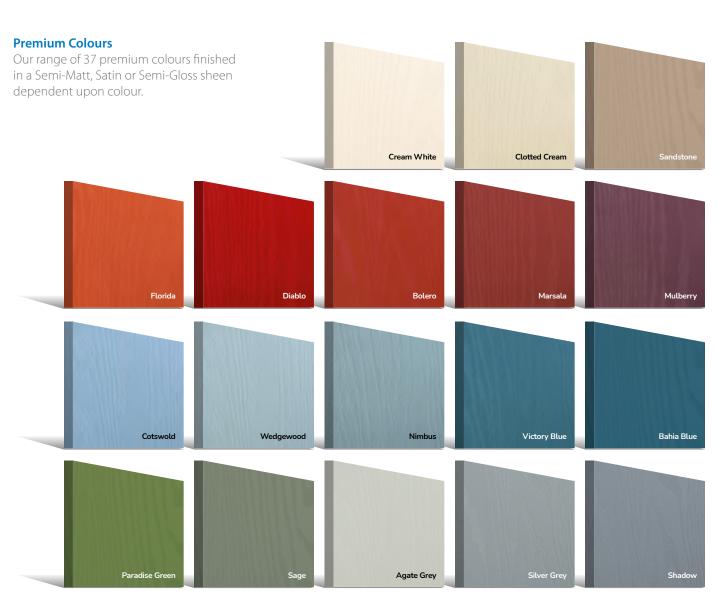


Style: **Penina side light and door**

Colour: Black
Glass: Prestige
Hardware: Gold

DOOR COLOUR OPTIONS





RAL Colours

Any RAL colour is available from us as a special order. Here are the most requested colours as an example.





* Please note that due to the physical differences of a PVC-U outerframe and the GRP skin of the door, we cannot guarantee an exact colour match of door and outerframe.











Door style is Augusta in Cream White featuring Impression glass

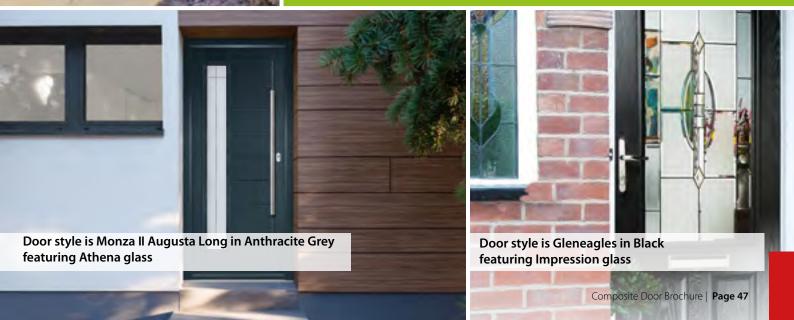
FRAMING YOUR DOOR

YOU CAN ALSO CHOOSE THE COLOUR AND FINISH OF YOUR DOOR FRAME.

The classic design of a white door frame against a solid door colour provides contrast, showing off your door but you can also choose subtle combinations, which will connect your door to the fabric of your home that surrounds it.

Choose from standard white, light oak or rosewood finishes or your individual colour choice.

You can also choose to have a colour finish on the outside and white inside, or any combination of colours inside and out.



GLASS OPTIONS

CHOOSE THE PERFECT DESIGN FOR YOUR HOME

The decorative touch that defines your door, our wide range of glass options offer you the perfect choice.

Whatever your preference, all of our doors are internally glazed, while glass units achieve top ratings for energy efficiency, keeping your home safe, warm and welcoming.

Panama

Artemis



Synergy***

Birchwood***

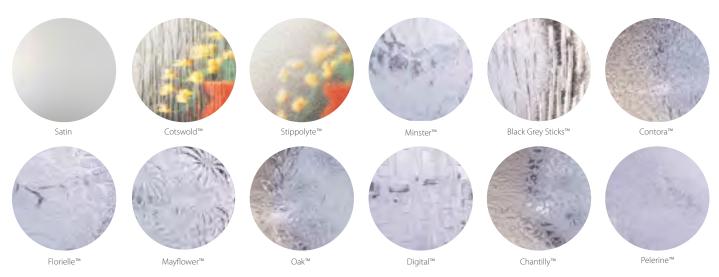
OBSCURE GLASS OPTIONS

PRIVACY FOR YOUR HOME

Tranquility Zinc**

Athena

A choice of designs, our range of etched glass adds a touch of style, elegance and privacy to your home.



Prestige**

Optimal

* Clear Bevels ** Textured Bevels *** Mixture of Clear and Textured Bevels. Door styles are also available with fully clear or obscure double glazed options, as shown above.

HANDLES, HARDWARE & DOOR FURNITURE

Your door handle is the part of your new door that you'll touch each and every day. Your letter plate, choice of knocker, all come together to put the all-important finishing touches to your new door.

Whether you're designing a contemporary, bold, statement door, or recreating the timeless charm of a period installation, we can offer you the perfect choice of lever, pad lever, heritage or contemporary pull handles available in white, gold, chrome black and satin finishes.



We also offer a Long Lever easier to grip Handle (3rd column above) which offers a greater, smooth action and low operating forces required to operate handle. The ample lever-to-door surface clearance option, are Compliant with Document M of the The Disability Discrimination Act (DDA), which states that the door handle needs to be able to be operated one handled without tightly grasping or any twist on the wrist.

Stainless steel options are available, for ultimate corrosion resistance which come with a 10 year quarantee. These are shown in the 1st column

Stainless steel options are available, for ultimate corrosion resistance which come with a 10 year guarantee. These are shown in the 1st column above. Standard Black and White Zinc / Aluminium hardware is also covered with a 10 year guarantee.

Appearance and finish on hardware is subject to change. Also please take into account that the product photography may slightly differ from the physical item in terms of color, due to lighting during photo shoot and the print reproduction process.







composite side screens (Min width 443mm/Max width 463mm)

Monza

Troon

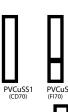


Carnoustie, Birkdale, Penina





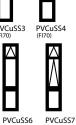




Lytham, Lytham Grid









Riviera, Portrush, Sunburst



















Impression***



Tranquility Zinc**







Luxor*



Athena

















