### HIGH SPECIFICATION ALU-CLAD AND ALUMINIUM GLAZING SOLUTIONS FOR THE FINEST HOMES

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Windows / Doors / Sliding Doors / Curtain Wall





### Welcome



Zyle Fenster is a leading manufacturer of high-specification, energy-efficient Alu-Clad Timber and Aluminum (Reynaers & Schuco) windows, and Traditional and Heritage Sash windows. Boasting over two decades of experience as the ideal private or commercial partner for the most exceptional homes across Europe, whether a restoration, contemporary new build project or stylish individual home development.





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## OVER 20 YEARS EXPERIENCE

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### EXCELLENCE, QUALITY, SERVICE AND STYLE!

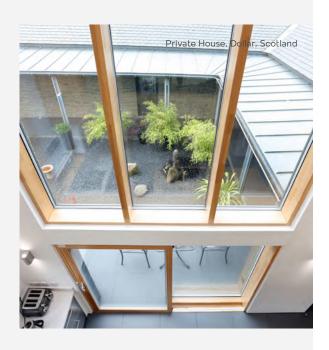


Established in 2001 and based in Vilnius, Lithuania, Zyle Fenster has state of the art, modern manufacturing facilities extending over 8,500 m<sup>2</sup>, specialising in providing the highest quality energy-efficient triple glazed Alu-clad Timber, Aluminum (Reynaers & Schuco) and Bespoke timber windows and doors.

We work in partnership with architects, engineers and builders, together with our hand-picked local partners across Europe, to provide 'stunning windows for stunning designs' for those that want the most stylish and the very best. Together, we commit to deliver exemplary customer service across all aspects of the business through the life of the project.

As leaders in the design and delivery of bespoke windows and door solutions to meet the most demanding technical and aesthetic requirements of individual projects, our expertise extends to manufacturing 'like for like' replacement windows for both Heritage projects and Grade II listed buildings.





### Why choose Zyle Fenster?

- Over 2 decades of progressive industry experience
- Specialist manufacturers of Alu-clad Windows and Doors
- Technical expertise in creating a bespoke solution for every design
- Our purpose-built production facility keeps costs competitive
- Energy efficiency and environmental awareness at the core of everything we do
- A comprehensive array of products to satisfy every project's requirements.





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## Alu-Clad Flush Casement Windows

ALU-CLAD RANGE

With smooth lines, our Alu-Clad timber windows unite the best of traditional timber flush casements with a modern, practical aluminium exterior – all in a very affordable package.

Side or top hung, these flush casement windows open outwards in the traditional way. They come with the choice of double or triple glazing to satisfy every design challenge.

Alu-Clad flush casement windows are particularly suited to high-rise developments, due to the fully reversible panes which enable easy cleaning from the inside.

With a Uw value as low as 0.79 thermal performance is strong; and effective weather containment is achieved with double gasketing. Rest easy: with their internal beading they are also PAS 24 certified.

#### **TECHNICAL PROPERTIES**

Double Glazed Uw  $\geq$  1.3 - 1.2 (W/m²K)<br/>Triple Glazed Uw  $\geq$  1.0 - 0.79 (W/m²K)<br/>Please consult typology, dimensions and glazingImage: Class 4Image: Class 5<br/>EgooClass 4Class 5<br/>EgooErame depth: 90 mmFrame depth: 100 mm

BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g window is 0.38 (double glazed), The Solar Factor g window is 0.32 (triple glazed)

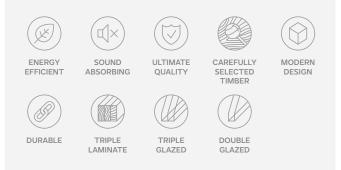
Maximum glazing: 42 mm





#### PAS 24:2016 - PASS

Maximum glazing: 32 mm



### Alu-Clad Tilt and Turn Windows

ALU-CLAD RANGE

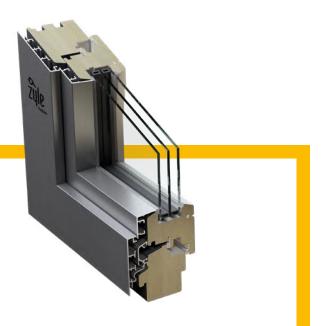
Our Tilt & Turn Alu-Clad windows are manufactured with dual action mechanisms that allow you to tilt the panel inwards or open it on its hinges into the room.

This versatility, coupled with the slim sightlines results in large sash sizes giving a contemporary, modern aesthetic enhancing any elevation.

The technical performance for these Tilt and Turn windows is impressive. They boast the top rating in water tightness and air permeability tests; and an achievable Uw value as low as 0.80 W/m<sup>2</sup>K to compete with PassivHaus levels of insulation. For peace of mind they also carry PAS 24 approval.

The huge operable sash size (up to 3m high) gives scope for stunning feature windows which deliver natural light and flexible ventilation.

We offer these Alu-Clad windows with either double or triple glazing, a choice of glass types, and hardwood or softwood frames plus RAL paint finishes.



#### **TECHNICAL PROPERTIES**



BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g window is 0.30 (triple glazed)



## Alu-Clad Passivhaus Windows

St Benedict's Junior School

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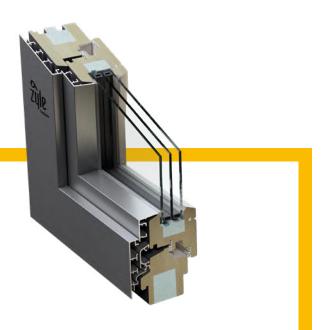
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### Designed specifically for the growing Passive House market Passive Windows offer the very best thermal insulation values as low as Uw 0.66 W/m<sup>2</sup>K.

These windows combine all the natural style of timber internally with the practical ease of maintenance of external aluminium cladding. Side-hinged, they offer a choice of inward opening styles - either tilt only or tilt and turn.

With first-rate performance for air and water tightness, this window system is certified and compliant with the German Passivhaus Institute standards.

To maximise solar gains these triple glazed windows can be created in sizes up to 3 metres high.



#### **TECHNICAL PROPERTIES**



#### Uw, installed $\leq 0.85$ (W/m<sup>2</sup>K)





### Alu-Clad Pivot Windows



### Our centre pivot windows are remarkable not only for their technical performance, but for their size.

Offering the largest operable sash width on the market (up to 3 metres) these Alu-Clad timber windows make a clear design statement, while allowing natural light and air to flood in.

With feature stays, they are a perfect choice for offices and public sector buildings such as healthcare and education. Their external colours and clean styling make them equally well-suited to multipleoccupancy buildings such as apartments and hotels.

With first-class air and water tightness ratings, our centre pivot windows come double or triple glazed with numerous glass and finish options. They can be rotated a full 180° for easy cleaning from within the building.

### **TECHNICAL PROPERTIES**





#### CLASS 9A

Frame depth:	92 mm
Maximum glazing:	48 mm
Sash width:	576-2950 mm
Sash height:	700-2200 mm
Sash weight:	up to 300 kg





## Alu-Clad 'Sky Frame' Lift and Slide Doors

These alu-clad sliding doors have a 'lift and slide' mechanism to easily carry glass panes up to 3m x 3m and doors weighing 400kg.

With some of the best insulation properties as well as superb air tightness, flexibility and durability give the "Sky Frame" an elite presence within the sliding door market.

Narrow door frames allow light to pour in; and fixed panels of glass can be installed down to the threshold and below for a seamless appearance.

A low-profile threshold plate is also available, presenting smooth lines coupled with ease of accessibility.

These sliding doors deliver supreme energyefficiency, with triple glazing to reduce condensation, plus double gasket sealing for weather tightness.

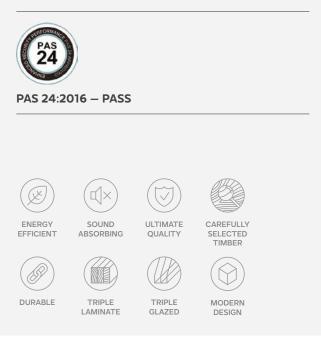
Versatile, stylish and tremendous value, these doors are well suited to hotels, restaurants and apartments.



#### **TECHNICAL PROPERTIES**



BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g door is 0.39 (triple glazed)



### Alu-Clad Curtain Walls

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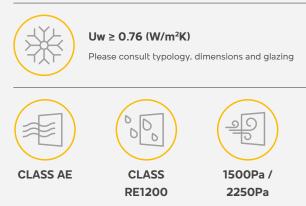
### Alu-Clad Timber Curtain Walls are an exceptionally appealing way to use glass in modern architecture.

The use of wood-alum systems and large glass panes allow for the creation of amazing design features that will bring light and the feeling of space to rooms of all shapes and sizes.

Our curtain wall system can achieve a U value as low as 0.76 W/m<sup>2</sup>K. Any window (both tilt & turn and casement), entrance door and sliding doors can integrate beautifully with this system, creating an exclusive, modern and energy-saving solution.

Available in several wood types internally and any RAL colour for outside aluminium cladding, our curtain walls offer a robust, concealed fasting system to bear almost any structural load. Furthermore, the large glass units and innovative thermal system means that our curtain walls comply with the stringent requirements of the Passivhaus standard.

### **TECHNICAL PROPERTIES**



Test sample: Mullion-transom curtain wall element, face width 50 mm (3,790 mm x 2,700 mm)

Face width:	50 mm, 60 n	nm an	d 8	80 mm	
Maximum glazing:	48 mm				
			~	50	

External timber add-on cap available for 50mm face construction







### HIGH SPECIFICATION ALUMINIUM RANGE

# Ultra Slim SI38 Window and Door System

Zyle Fenster Page 24

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### These slimline aluminium windows come in a choice of three external profiles to complement the architecture of any modern building.

Beneath the ultra-slim styling, however, the structure remains the same. Highly insulated, and with a thermal break, the water and air tightness tests give superb results, plus an impressive acoustic performance of 45 dBRw.

The hinging options could hardly be more varied, with choices of inward and outward opening, side or top hinged, tilt or tilt and turn all available.

Double or triple glazing is offered, with a choice of glass types. The frames can be anodized or finished in a choice of RAL colours.

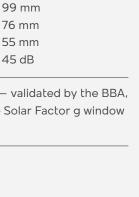
These Reynaers slimline aluminium windows are ideal for new-builds or replacing steel windows.

#### **TECHNICAL PROPERTIES**

Acoustic performance:

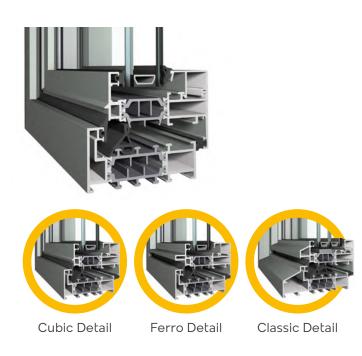


BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g window is 0.34 (triple glazed)



**ALUMINIUM RANGE** 

REYNAERS





## High-Insulation Master Line 8 Window and Door System

### These aluminium thermal windows exhibit clean external lines, yet conceal a sophisticated insulation system.

Reynaers Masterline 8 windows are available in three options to suit high-insulation, low-energy, or Passive House buildings (certified by the Passivhaus Institute). The frame shape remains constant, with varying insulation levels being achieved with internal thermal break materials and seals.

Benefiting from top-class air and water tightness and PAS 24 approval, Masterline 8 windows allow excellent daylight ingress thanks to the slimline frame.

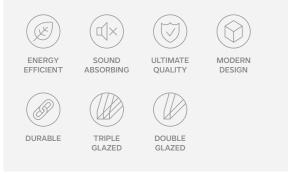
These single swing thermal windows open inwards or outwards, and can be double or triple glazed. Hinging is equally versatile - side or top hung, tilt-only or tilt and turn. Anodized or RAL colour finishes ensure the individuality of each installation.

#### **TECHNICAL PROPERTIES**

Uw of less than 1.1 (W/m<sup>2</sup>K) for a standard window section with triple glazed unit Please consult typology, dimensions and glazing C D δ CLASS 4 CLASS C4 CLASS E900 Frame depth: 77 mm Maximum glazing: 62 mm Acoustic performance: 45 dB

BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g window is 0.30 (triple glazed)





# High-Insulation CP155 Sliding Doors

REYNAERS ALUMINIUM RANGE

These aluminium lift and slide doors accommodate huge panes of glass, to maximize light and minimize lines.

Lift and slide doors use a different mechanism from traditional sliding patio doors. The doors reside down in the sliding track, only being lifted onto the rollers when the doors are moved. Thus, the structure and mechanism can withstand larger door weights and glass sizes.

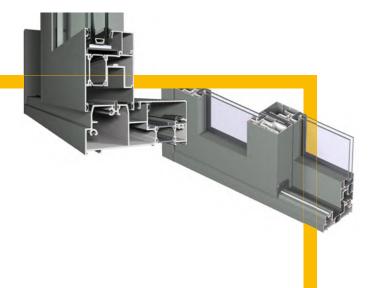
Each lift and slide door panel can span 3m high and 2.7 wide, and weigh up to 400kg, yet can still be opened with ease. A choice of thresholds is available, including a low profile to meet accessibility requirements.

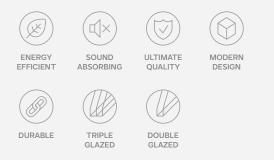
These doors offer exceptional insulation, and there's also a High Insulation option. Plus, they hold PAS 24 certification.

#### **TECHNICAL PROPERTIES**

Uw of 1.2 (W/m²K) for a standard<br/>window section with triple glazed unit<br/>Please consult typology, dimensions and glazingImage: CLASS 4Image: CLASS 9AFrame depth:155 mm<br/>S2 mm<br/>Acoustic performance:35/42 dB depending<br/>on glazing type

BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g door is 0.35 (triple glazed)





## Slim Frame CF77 Folding Doors

### With their discreet, slim frames, the outside world seems closer when viewed through these aluminium bifold doors.

Reynaers Concept Folding® 77 bifold doors offer inward or outward opening. Conveniently, they also permit one door to act as a principal entrance without affecting the other doors.

There is choice at the threshold too, including low and flush threshold options — so accessibility requirements can be accommodated in a range of situations.

Insulation levels are strong for thermal, acoustic and weather containment; making these aluminium bifold doors a credible choice for large-scale domestic and commercial projects, both new-build and refurbishment.

### **TECHNICAL PROPERTIES**







# Slimline Hi-Finity Doors







Zyle Fenster Page **32** 

### Reynaers Hi-Finity aluminium sliding doors are simply the ultimate in elegant contemporary style and technical performance.

In ultra-slender frames, Hi-Finity's minimalist look unites the interior and exterior worlds almost seamlessly.

The Hi-finity system accommodates glass panels up to 3.5m x 3.5m, and transports doors up to 750kg with its motorized mechanism.

These aluminium sliding doors were created with low-energy modern architecture in mind. Thermal, weather and wind performance is exceptional, as is acoustic containment at 43 dB Rw.

With design choices aplenty, this sophisticated product comes with double or triple glazing, a selection of glass types, and anodized and RAL finishes, so that each installation can be truly unique.

### **TECHNICAL PROPERTIES**











# Heritage Sash Windows 📻

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### Our heritage sash windows are made to match box sash windows crafted more than a century ago.

These premium sash windows, with the classic weight-and-pulley mechanism, is the perfect choice for replacement windows in listing buildings, while also suiting high-end architect-led new developments.

We use traditional putty externally to secure high-performance Slimlite glass. Single or double glazed, this authentic-looking slim glass satisfies the modern demands for acoustic and thermal performance.

Solid glazing bars come as standard, so each window comprises a number of individual glass panels, giving these heritage sash windows genuine character.

### **TECHNICAL PROPERTIES**





ULTIMATE

OUALITY



CAREFULLY

SELECTED TIMBER DOUBLE

# Heritage Casement Windows

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### Our heritage casement windows perfectly echo the smooth, traditional styling of historic windows.

Ideally suited for refurbishment contracts and listed buildings, our conservation casement windows also bring an evocative timelessness to contemporary developments.

This premium product boasts time-honoured details, including traditional putty; and is offered in a choice of hardwood and softwood frames, plus RAL finishes.

Single or double Slimlite glazing means these casement windows deliver both historic styling and modern thermal and acoustic performance.

A versatile choice, our heritage casement windows are available as inward or outward opening, side-hinged or top-hung.

#### **TECHNICAL PROPERTIES**





ULTIMATE QUALITY

CAREFULLY

SELECTED

DOUBLE GLAZED

# Traditional Box Sash Windows





















These timber sash windows embrace the all style and function of traditional box sash windows, yet are enhanced with modern construction and materials. Smooth-running and robust, they feature a classic weight-and-pulley mechanism.

Suitable for non-listed buildings and contemporary developments, our sash windows come in a selection of hardwood and softwood frame finishes, plus RAL colours, to provide freedom of design.

With the option of safety glass, obscured glass, acoustic glass or solar control glass, our wooden double-glazed sash windows can be tailored for every situation.

These box sash windows offer impressive technical performance too, demonstrated by advanced thermal performance, water permeability and air tightness test results.







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#### Doubled Glazed Uw 1.6 (W/m<sup>2</sup>K)

Please consult typology, dimensions and glazing

BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g window is 0.42 (double glazed)



# Traditional Flush Casement Windows

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Flush casement windows are based on the traditional British window where the opening leaf is level or 'flush' with the surrounding frame.

The incorporation of modern mechanisms and high-performance weather seals have resulted in a product to complement any home.

With smooth lines, our traditional flush timber casement windows are tested to PAS24.

Our flush casement timber windows open outwards and can be top or side hung. They can also be supplied fully reversible to enable external glass to be cleaned safely from inside the building: perfect for high-rise developments.

Double and triple glazing is available, and the Uw rates for thermal containment will impress.

#### **TECHNICAL PROPERTIES**

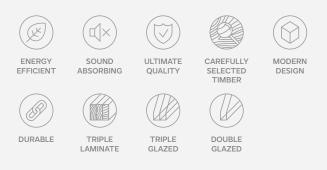


BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g window is 0.38 (double glazed), The Solar Factor g window is 0.32 (triple glazed)



PAS 24

#### PAS 24:2016 - PASS









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## TIMBER FRONT DOORS

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# Contemporary Timber Front Doors





### Contemporary entrance doors are constructed using multi-layered high insulated panels of hardwood, with metal inserts.

This creates durable, impact-resistant, attractive doors that ensure optimum security and heat conservation, without compromising on stylish design. By including the metal elements within the wood, the exterior surfaces for the door offer an attractive, natural finish, while the interior offers exceptional strength.

Our selection of contemporary front doors ensures that you have plenty of options when it comes to create the stylish home of your dreams.

#### Other colours are available.





Door open from inside

Door closed from inside

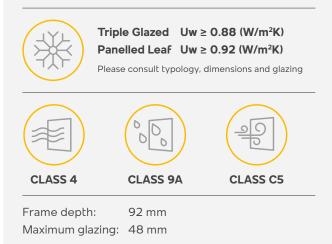




Door open from outside

Door closed from outside

#### **TECHNICAL PROPERTIES**



BFRC Window Energy Rating — validated by the BBA, Notified Body No 0836 — The Solar Factor g door is 0.24 (triple glazed)



# Traditional Timber Front Doors

Our traditional, wooden front doors offer exceptional quality and style, while ensuring maximum security and longevity. They are available in a diverse range of woods and finishes, to suit every client's unique sense of taste and ensure the perfect design for a vast range of homes.

As well as choosing the preferred wood, finishes and hardware, clients are also able to select traditional entrance doors based on their safety and energy efficiency features.

Our extensive range of variable factors means that you have the freedom to choose the perfect traditional front door for your property.

#### Other colours are available.





Door open from inside

Door closed from inside

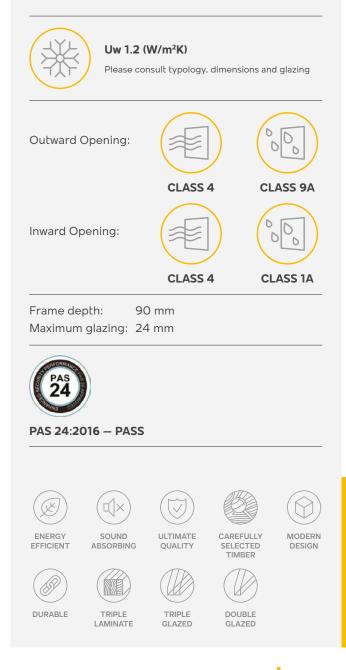


Door open from outside



Door closed from outside

#### **TECHNICAL PROPERTIES**





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### HERITAGE SASH AND BESPOKE TIMBER WINDOWS FOR RESTORATION OR NEW BUILD PROJECTS

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