

Windows and doors

Beautiful design for sustainable living



Rationel windows and doors

Our story

From a small workshop in Denmark in 1954, a lone carpenter worked dilgently to create his first order of 31 barn windows. He invested the profits in modern machinery and Rationel was born. More than 60 years later we're still here, shipping 600,000 state-ofthe-art windows and doors around the world each year. All of them bespoke, all of them beautiful. We may have grown, but we've maintained our firm focus on quality craftsmanship and service.

Rationel today is part of DOVISTA, itself part of the VKR Group, whose mission is to establish model companies that create products useful to society and treat customers, suppliers, employees and shareholders better than most other companies.

At the heart of the organisation is a set of Charitable Foundations created to assist employees and their local communities, as well as fund a wide range of environmental, cultural and social programmes.



1954 The first factory

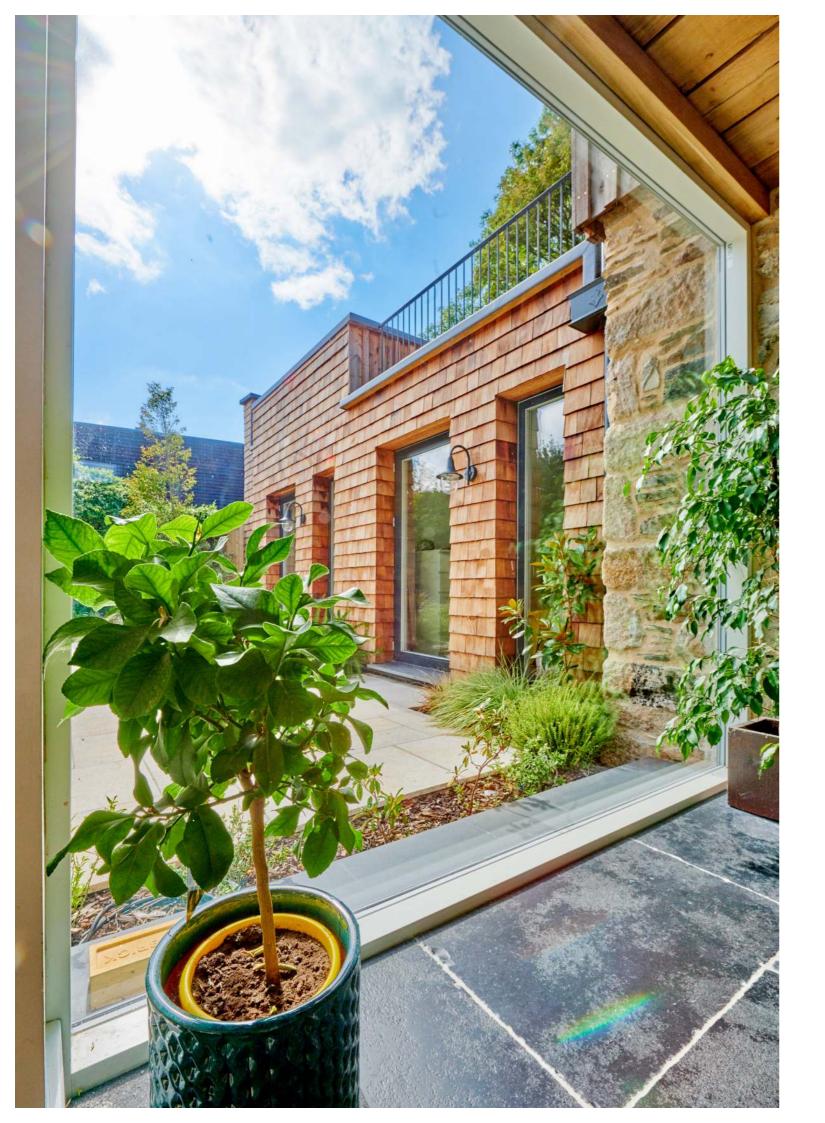


1954 The first windows leave the factory

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The right choice for your home

Your door is the gateway to your home; the way it looks and moves influences the building's architectural expression. Your windows set the mood, determining the light and temperature of your environment. Every detail changes how you and your guests feel about your home.

All our products are bespoke, so it's important to carefully consider every aspect – from colour to glazing options to opening and closing functions.

The pages ahead feature our regular style options for your inspiration; we can also manufacture specially shaped units to suit unique spaces. Our experts can help guide your decisions by taking into account the details of your build and the overall impact you are aiming for.

You can visit our website for technical drawings, certification data, videos and more: **rationel.ie**

Windows

Windows can shape your outlook in more ways than one. From the way the light gathers at dawn to the flow of air during a hot summer, every element should complement your lifestyle. Let us introduce our two signature styles, AURA and FORMA. Both are available with double and triple glazing. The PLUS models feature timber frames with aluminium cladding, which opens up a new range of possibilities.

Rationel AURA and AURAPLUS

AURA personifies clean lines. The sleek, flat frame gives your window a flush finish for a truly modern, Scandinavian feel. This is our most popular profile, especially for a stand-out "grand design". Optional glazing bars can increase the architectural elegance of this style. Made from sustainably sourced timber, your windows and doors will last for decades if looked after.

Choose AURAPLUS and we add aluminium cladding to the timber, which means maintenance becomes minimal and life expectancy rises by another 20+ years. The cladding comes in hundreds of colours and gives you the flexibility to have one colour inside your home and another on the outside. It can make a real impact and adds the durability to deal with the harshest of weather.

Rationel FORMA and FORMAPLUS

Designed to complement traditional British architecture, FORMA brings a softer line to your windows and ensures your project blends with its environment. Beautifully styled in sustainable timber that will last for decades, the bevelled edges bring a homely feel. The colour palette is extensive, with the most popular choices shown on page 27; you'll be choosing the same colour inside and out.

Make it FORMAPLUS and the aluminium cladding gives you the option of another colour for the outside of your home – however, it's unlikely you'll want to cover up this beautiful styling. The cladded frame requires minimal maintenance and is extremely durable in all weather conditions. All styles are available with glazing bars, which particularly suit this style of window.



Our contemporary style

Rationel AURA and AURAPLUS

Key features Rationel AURA and AURAPLUS

Rationel AURA and AURAPLUS come with security hardware as standard to meet Secured by Design requirements. The majority of timber originates from FSC®-certified forests. Read more at **rationel.ie**



Top Topguided window

Bottom Reversable windows

This development used fully reversible windows with coloured opaque glass on the first floor.

Side guided windows

Bottom Casement door • 42 dB Rw sound reduction

Triple glazed

• 0.78 W/m2 K U-value

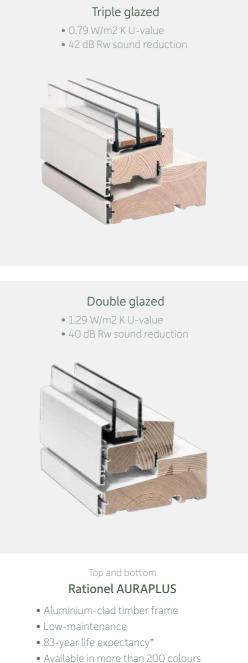
Double glazed • 1.29 W/m2 K U-value • 41 dB Rw sound reduction



Top and bottom Rationel AURA

- Timber frame
- 60-year life expectancy*
- Available in more than 200 colours
- Best performance

*Dr Gillian Menzies, Institute for Building and Urban Design, Heriot-Watt University, Edinburgh



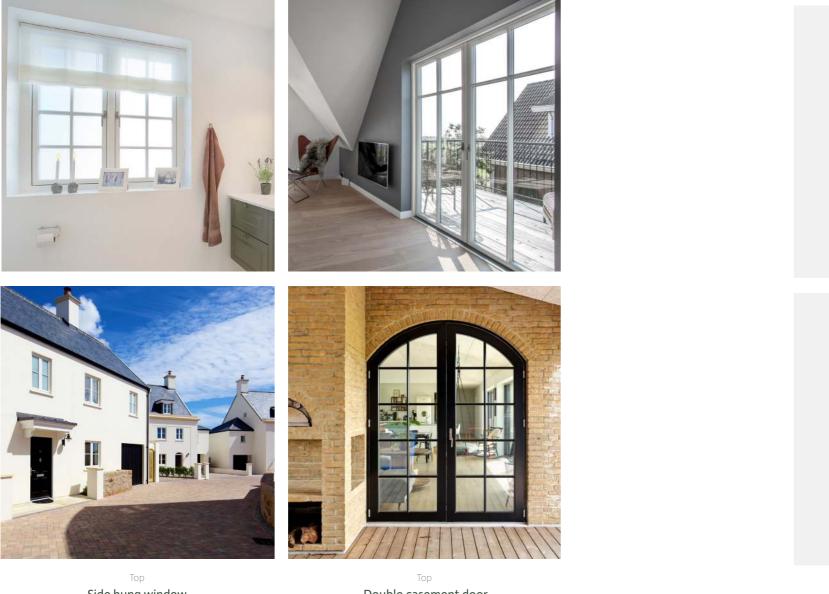
- Dual colour no extra charge
- Best performance

Our traditional style

Rationel FORMA and FORMAPLUS

Key features Rationel FORMA and FORMAPLUS

Rationel FORMA and FORMAPLUS come with security hardware as standard to meet Secured by Design requirements. The majority of timber originates from FSC®-certified forests. Read more at **rationel.ie**



Triple glazed • 0.78 W/m2 K U-value

• 42 dB Rw sound reduction



Double glazed • 1.27 W/m2 K U-value • 40 dB Rw sound reduction



Top and bottom **Rationel FORMA**

- Timber frame
- 60-year life expectancy*
- Available in more than 200 colours
- Best performance

*Dr Gillian Menzies, Institute for Building and Urban Design, Heriot-Watt University, Edinburgh

Side hung window Double side hung window with satin glass.

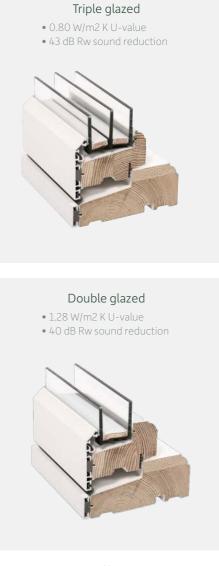
Bottom

Side guided windows

This residential development used side guided windows with horizontal glazing bar.

Double casement door

Bottom Double patio door



Top and bottom Rationel FORMAPLUS

- Aluminium-clad timber frame
- Low-maintenance
- 83-year life expectancy*
- Available in more than 200 colours
- Dual colour no extra charge
- Best performance

Types and openings

Windows

Hung, swung or guided: the drawings below show the range of styles available. Contact Rationel for information on different style combinations.



Topguided window

Elegant style that is suitable for all rooms. Simple, seamless opening function allows for effective ventilation when open, both above and below the sash. Clean look with no visible external hinges.

Max. width

1,798mm

Min. width 358mm

Min. height 383mm

Max. height 1,598mm



Side hung window

Simple, stylish design with a seamless opening function. On larger windows, the friction brake allows the window to be fixed in any open position. Suitable as escape windows.

Min. width 353mm

Min. height 353mm



Fully reversible window

Multi-functional style suitable for multi-storey buildings. Sash can be turned to clean the glass from the inside. Comes with a child-proof opening limiter.

Min. width 553mm

Max. width 1,598mm

Max. height 1,598mm



Side guided window

Minimalist design that moves seamlessly, with no visible external hinges. When fully open the glass can be cleaned from the inside..

Min. width 453mm

438mm



Fixed light

Simple style that allows for optimal views. Ideal when you need maximum internal light and solar heat. Can be fitted with trickle-vents for ventilation.

Min. width 253mm

Min. height 253mm

Min. height

548mm

Max. width 2,998mm

Max. height 2,998mm

Tilt and turn

Multi-functional style suitable for multi-storey buildings. Tilt function opens the top of the sash inwards for ventilation. Can be cleaned from the inside, and are perfectly suited as "escape windows" or emergency exits. Available in AURAPLUS triple glazed only.

Min. width 478mm

All maximum width and height measurements are subject to glass weight and specification.

Max. width 948mm

Max. height 1,798mm

Min. height

Max. width 998mm

Max. height 1,798mm

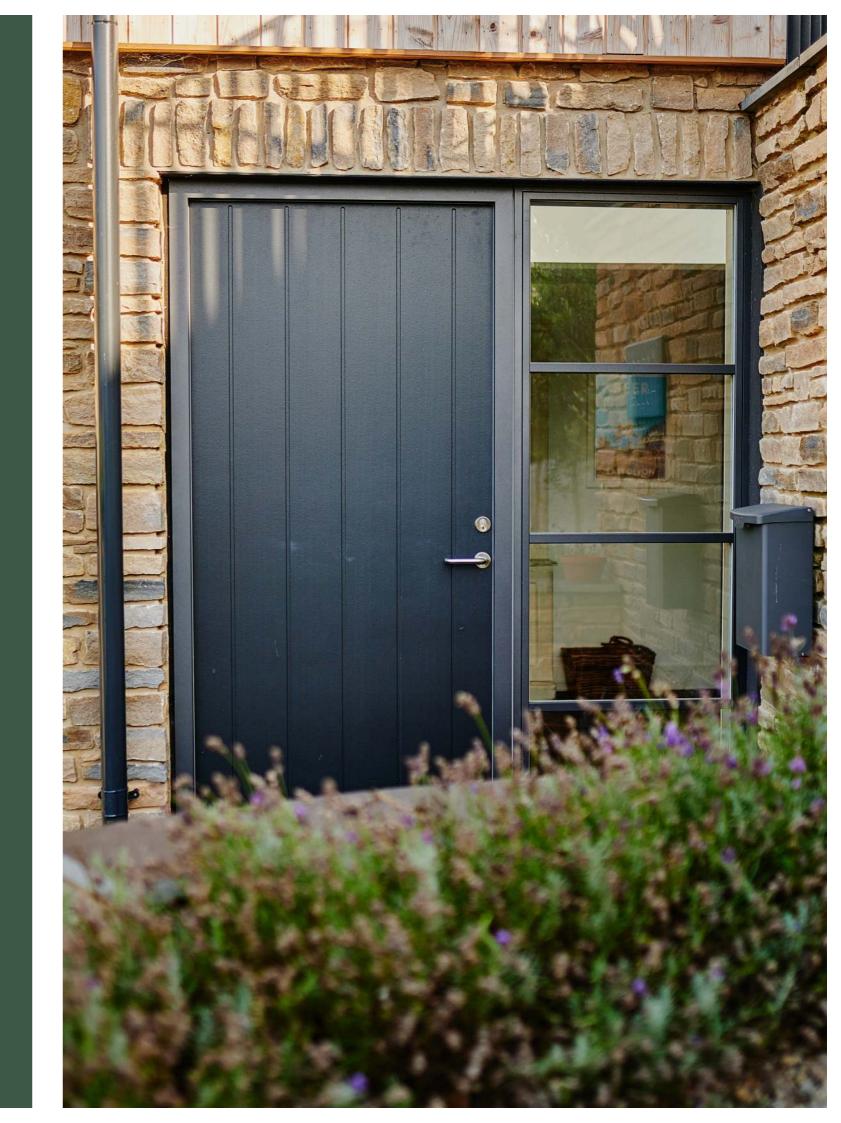
Min. height 438mm

Max. width 1.298mm

Max. height 2,400mm

Doors

Make a grand entrance with a bold front door or bring fluidity to your space with sliding patio doors; a great door will change the way you live. Browse the styles, colours, materials and security features we offer in the following pages.



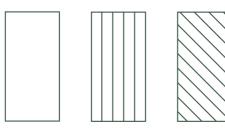


Customising your door

The following illustrations are examples of door and vision panel styles that can be matched.

Flush entrance doors

Flush entrance doors can be customised, with several options to mix and match your preferred door with vision panel style and position.



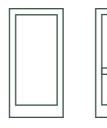
Diagonal

Plain Vertical



Glazed entrance doors and patio doors

Glazed entrance doors can also be customised. We can recommend standard options or work with you to create any variation you require.





Glazed door

Glazed door

Glazed door

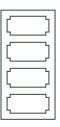




Herringbone



5. Oval



6 Antique

Window types



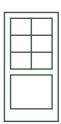




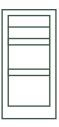
6. Diamond



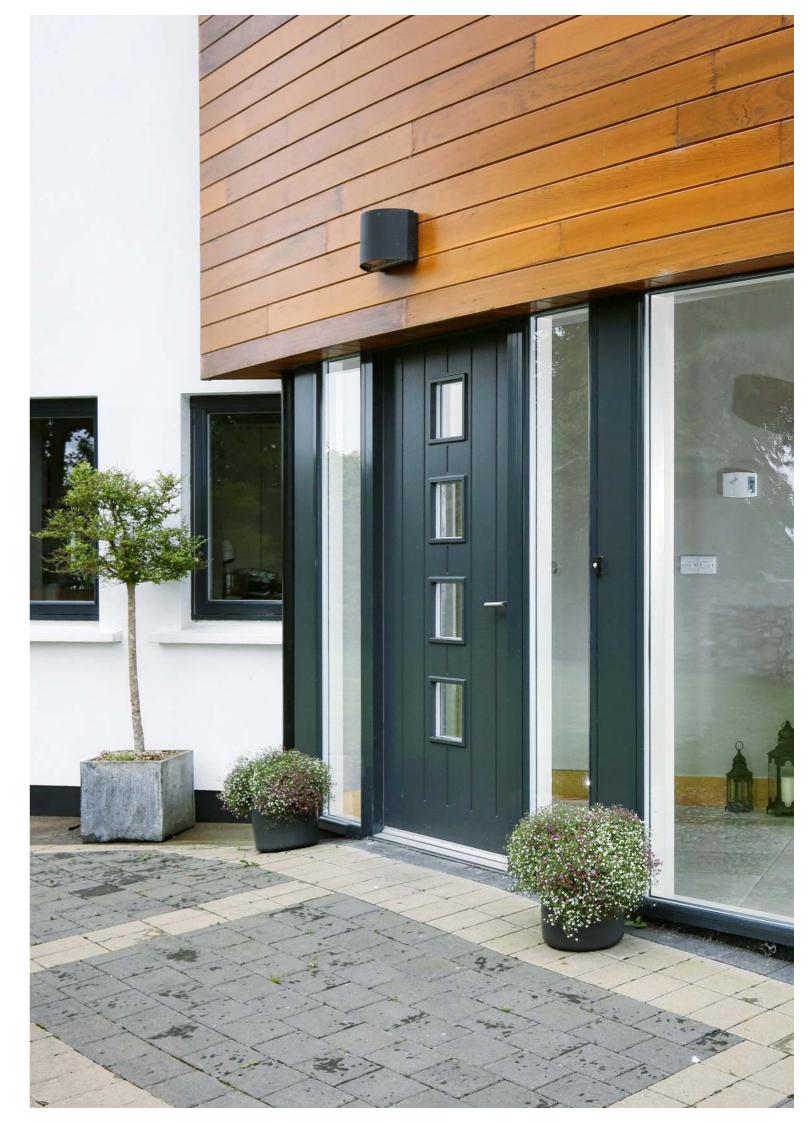
Multi-light Glazing door



Multi-light Glazing door



Multi-light Glazing door



For your inspiration







G entra

2. Glazed entrance door

3. Flush entrance door



4. Flush entrance door



5. Flush entrance door with integrated side light



6. Flush entrance door with integrated side light



r. Flush entrance door with side light



8. Glazed entrance door with integrated side light



Contact us for more options, we can help you design the perfect door for your project.

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9. Double casement door



10. **Sliding door** Only available in AURAPLUS triple-glazed only

Types and openings

Doors

Tilt, turn or slide: the drawings below show the range of styles available. Contact Rationel for information about more options and style combinations.



Flush entrance door

Glazed entrance door

locking espagnolette bolt.

Available as inward- or outward-opening, flush doors are hung on grey powder-coated adjustable hinges and fitted with a minimum three-point locking espagnolette bolt.

Flush doors can be manufactured with a wide range of patterns and vision panels. See examples on page 17.

Min. width 653mm

Min. height 1,703mm

1,198mm

Max. width

Max. height 2,398mm



Tilt and turn door

Available as inward-opening only, tilt and turn doors function in two ways. They are hinged from the side and open inwards, or, for ventilation, the leaf can be tilted. Tilt is available on master leaf only. Available in Rationel AURAPLUS triple-glazed only.

Min. width 1,003mm

Min. height 1,803mm

Available as inward- or outward-opening, glazed entrance doors are hung on grey powder-coated adjustable hinges and fitted with a multipoint lock box with latch deadbolt

Glazed entrance doors are constructed using a frame and sash with an option of glazing bars, transoms and mullions. The glass can be composite or insulated panel.

Min. width 653mm

Min. height 1,703mm

Max. width 1,198mm

Max. height 2,498mm



Casement door

Available as outward-opening only, casement doors are ideal for access to balconies, gardens and patios. The slim construction allows maximum daylight and heat into the house without compromising functionality and comfort. Casement doors come fitted with an inbuilt friction brake operated by turning the handle down in any given position. They are hung on grey powder-coated adjustable hinges and fitted with a minimum three-point locking espagnolette bolt.

Min. width 938mm

Patio door

Available as either inward- or outward-opening, patio doors are ideal for access to balconies, gardens and patios.

Doors have an inbuilt friction brake*, operated by turning the handle down in any given position. They are hung on grey powder-coated adjustable hinges and fitted with a minimum three-point locking espagnolette bolt. *Available on master door leaf only.

Min. width	Min. height	Max. width	Max. height
1,188mm	1,703mm	2,328mm	2,498mm



Sliding door

Min.

Designed to be as beautiful as the views they frame, sliding doors allow the garden into your home in the summer but keep the heat inside throughout the winter. Sliding doors, where one half slides and the other is fixed, are ideal when space is at a premium. The sliding part lifts easily and glides in front of the fixed section to create a clear opening of up to 1.55 metres.. Available in AURAPLUS triple glazed only.

Min. width	Min. he
1,788mm	1,863m

All maximum width and height measurements are subject to glass weight and specification.

Max. width 1,998mm

Max. height 2,198mm

Min. height 1,703mm

Max. width 2.328mm

Max. height 2,398mm

eight nm

Max. width 3.588mm

Max. height 2.388mm

All maximum width and height measurements are subject to glass weight and specification.

Glazing options

Rationel windows combine safety, privacy and energy-efficiency features that help you make the very best of your home.



Rationel SECURE

Our windows are built with security in mind. Read more about our Secured by Design certification on page 24 or watch the video on our website.



Rationel SAFETY

Our glass holds together when shattered, reducing the risk of injury if someone falls into the pane. Contact us for more information.



Rationel OBSCURE

Our panes are designed to restrict the view

from six different types of glass to get the

combination of light and privacy you desire.

into private areas such as bathrooms. Choose

Rationel FACADE

Used in buildings either to create a visually coherent facade or for special colour effects, Facade is well suited to storey divisions as well as ventilated and insulated panels, and is available in special colours on request.



Rationel SOUND

If your home is subject to environmental noise, our noise-reducing panes are for you. Panes feature two glass sheets that act as a break, dramatically reducing the movement of sound into your home and creating a peaceful environment.



Rationel SOLAR

Our solar panes limit the amount of sunlight and heat coming into a building, depending on the light and heat shielding levels required. This means significantly less energy will be required to cool hot rooms.

Handles and accessories

Customise your windows and doors with different handles and accessories.

Windows





Handle

Handle



Night vent position

Doors





Entrance door handle With round rose key-key

Entrance door handle



Entrance door handle



Sliding door handle



Normal letter plate





Handle



Restrictor



Trickle vent



Patio door handle With key internal only



Entrance door handle

With back plate key-key

Sliding door finger pull



Secured by Design letter plate

Secured by Design and Part Q

Our experience working with housing associations, community developments and commercial projects means the security and safety of our doors are second to none.

Our doors are tested and marked according to several national and European standards, including Secured by Design. That means the frame, lock and hardware can withstand common burglary methods.

To meet Part Q requirements, windows and doors must satisfy particular standards of robustness, use approved hardware and demonstrate proven security performance.



Three-point locking

Three-point espagnolette locking mechanism inhibits burglary.

Bottom Hook bolts

Hook bolts in hardened steel combined with a reinforced front plate resist even severe attacks.



Reinforced espagnolette

Reinforced espagnolette increases the strength of all closing points.

Bottom Laminated pane

The length of time it takes to break a laminated pane will discourage even the most persistent burglar.





Reinforced screws

Extra-strong reinforced screws increase the strength of all hinges.

Bottom

The letterbox has an inner protective

Letterbox

housing with a unique concealed hinge mechanism. This limits the opening of the inner flap for maximum protection from "fishing" burglaries.

Durability tests

All our windows are tested for durability. A series of videos are available to view on the Rationel website.





Operation 10.000 cycles



Wind resistance 1600Pa



Water tightness 600Pa

Colour

Make a statement or play it cool with your choice of colour. Our standard colours suit most architectural styles, while our special range is ideal for highlighting unique features. Our windows and doors are available in one standard colour all over. AURAPLUS and FORMAPLUS windows can also be ordered with a different colour inside to outside, with no additional cost.

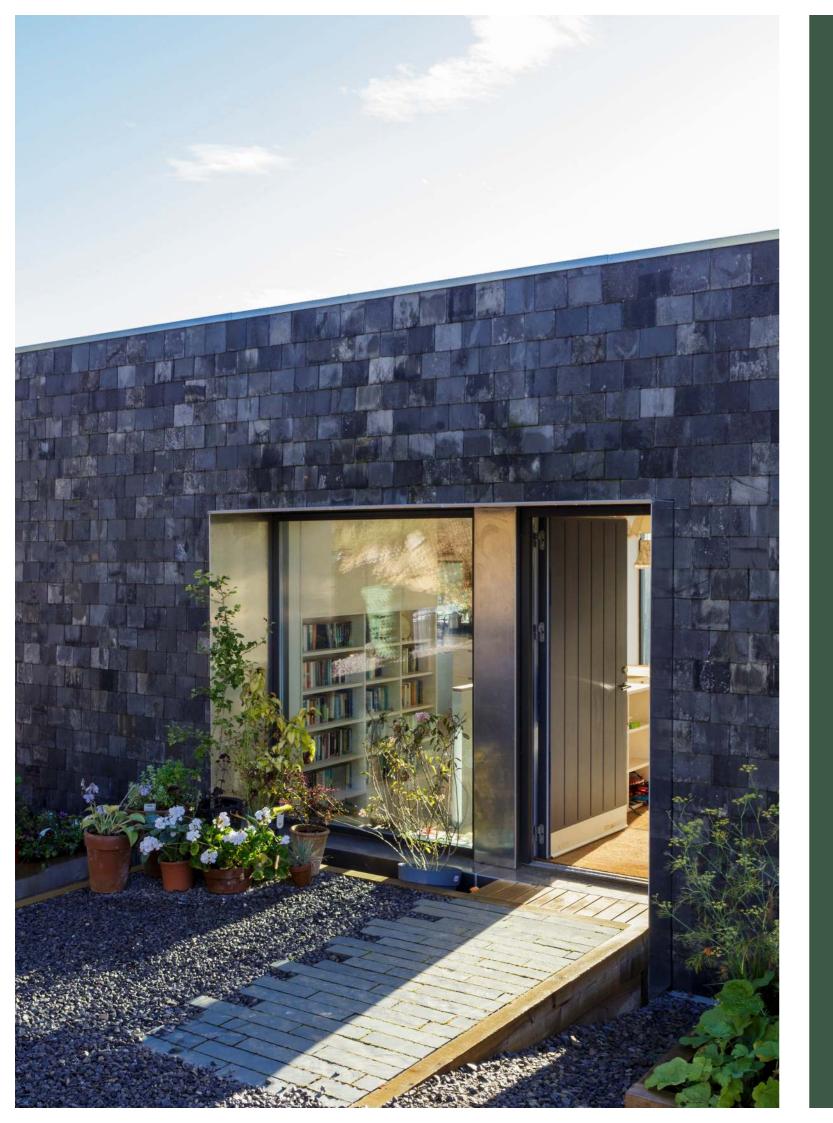
RAL CO LOURS

Standard colours

If you can't see the colour you want here, you can choose from the whole RAL classic colour chart. Non-standard colours may be subject to additional costs and lead times. Colours shown are indicative only.







Turn your dream home into a design reality

Rationel specialises in Scandinavian design. Slim sight lines, high-quality timber and unique ironmongery, along with the flexibility to stand tall, slant or curve to your requirements, mean our windows and doors add something truly special to your home. Our experts will help you find the perfect style to suit your project, whether that's traditional, modern or somewhere in between. Our doors and windows look good but they perform even better; they're built to last, designed to meet the highest standards of comfort, security and weather-tightness. For your peace of mind, our doors and windows have Secured by Design accreditation, which means they are extremely difficult to break into. We plan to be crafting windows and doors for homes for generations to come. So we go out of our way to source sustainable materials, whether that's the FSC®-certified trees that go into our frames or the waste timber that fuels our factories.

Our cleverly positioned, energy-efficient windows maximise natural light to reduce CO² emissions and utility costs. We make it our mission to provide exceptional service,from initial design support to hassle-free delivery and efficient after-sales care. Our network of local distributors means we're never far away, and for the times we can't talk in person, we're just a phone call, live chat or email away.

rationel

Good, solid, quality craftmanship

Rationel first manufactured windows and doors in Sdr. Felding in 1954, and ever since the products have characterised quality and excellent workmanship. Based on this solid foundation, Rationel has developed into an international company with sales activities in Denmark, Great Britain and Ireland.

As the market has developed, regulations and expectations changed, Rationel has continuously sought to improve and expand its product range including efficient and energy saving products that exceed the statutory requirements of the future, whilst not compromising security, comfort or functionality.

Rationel is part of the DOVISTA Group which consists of a number of leading door and window companies in Europe.

For further information about our wide range of windows and doors, please visit rationel.ie

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