

**rational®**

# Rational doors

Inspiration



Rational windows and doors

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# 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.

## Flush/glazed entrance

The entrance door is the gateway to a house. It is important to carefully consider the opening and closing functions and the designs available. The Rationel entrance door is constructed using a frame and sash which can be delivered with glazing bars and or transoms and mullions. The areas created can be infilled either with glass or a composite insulated panel.

## Patio doors

Patio doors are available as either inward or outward opening and are ideal for access to balconies, gardens and patios. A Patio door from Rationel is made to measure and therefore always matches your needs perfectly.

## Casement doors

The casement door is outward opening only and is ideal for access to balconies, gardens and patios. The slim construction is letting a maximum of day light and heat into the house without compromising with functionality, security and comfort.

## Sliding patio doors

Our sliding patio doors allows the garden into your home in the summer, but keep the heat inside throughout the winter. The sliding patio door can be used as an exit from the living room, dining room or bedroom to the terrace, garden or balcony. Rationel sliding patio doors are designed to be as beautiful as the views they frame.





# Entrance Doors

Make the entrance your own

Your front door can not only have a powerful visual impact on the overall aesthetic of your house, but also help to inspire your interior design. With the right front door, you can totally transform first impressions and the overall appearance of any property.

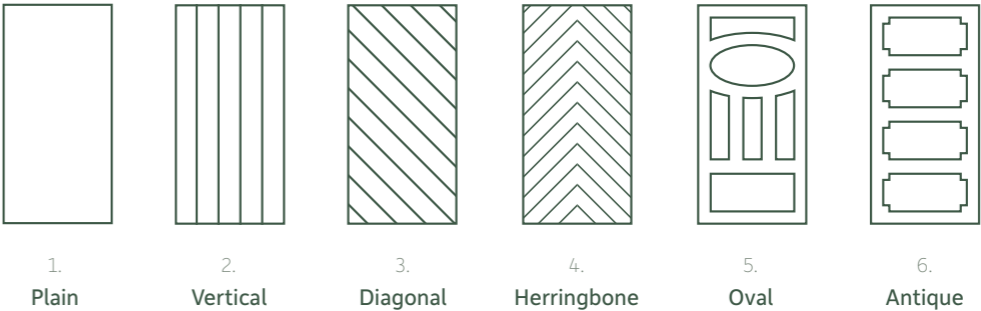


# Customising your door

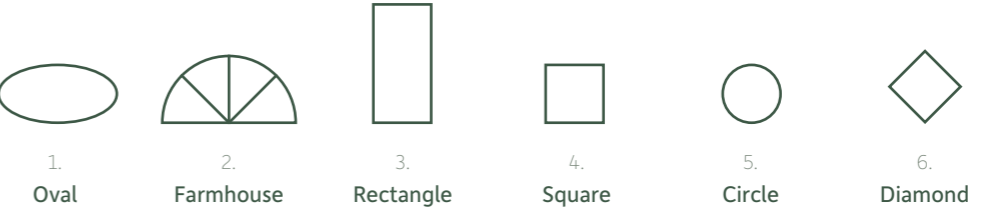
The following illustrations are examples of door and vision panel styles that can be matched.

## 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.

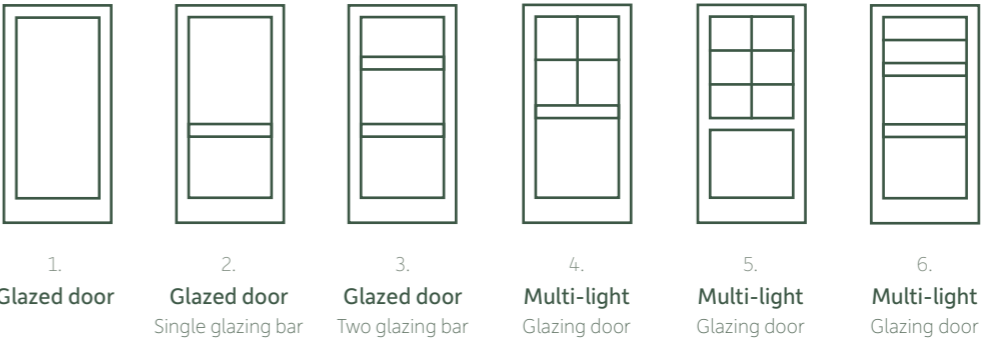


## Window types



## 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.



# For your inspiration



1.  
Flush entrance door



2.  
Flush entrance door



3.  
Flush entrance door



4.  
Flush entrance door



5.  
Glazed entrance door



6.  
Glazed entrance door



19.  
Glazed entrance door



20.  
Glazed entrance door



21.  
Glazed entrance door with integrated side light



22.  
Glazed entrance door



23.  
Glazed entrance door



24.  
Glazed entrance door



7.  
Glazed entrance door



8.  
Glazed entrance door



9.  
Glazed entrance door



10.  
Glazed entrance door



11.  
Glazed entrance door



12.  
Glazed entrance door



25.  
Glazed entrance door



26.  
Flush entrance door



27.  
Flush entrance door



13.  
Glazed entrance door



14.  
Glazed entrance door



15.  
Glazed entrance door



16.  
Glazed entrance door



17.  
Glazed entrance door



18.  
Glazed entrance door



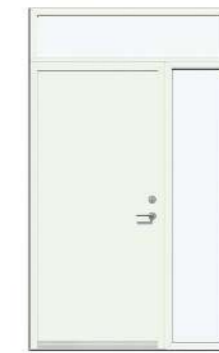
28.  
Flush entrance door with integrated side light



29.  
Flush entrance door with integrated side light

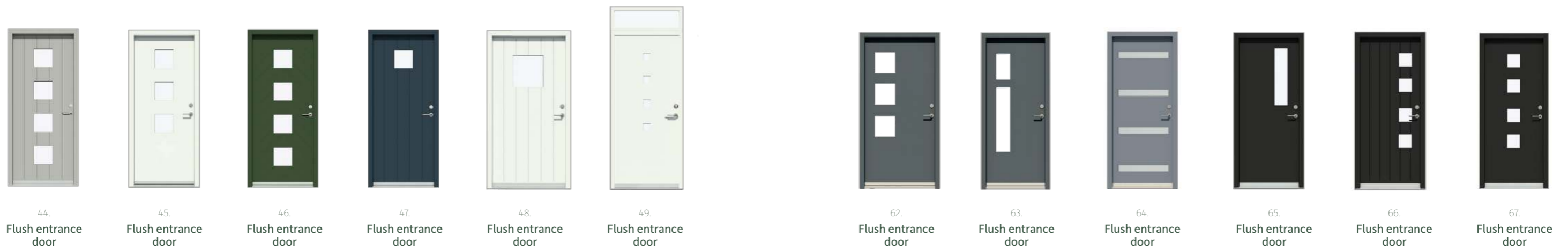


30.  
Flush entrance door with integrated side light



31.  
Flush entrance door with integrated side light

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





## Details

### Entrance Doors

Rationel door details open up new possibilities for making a good solution even better.



Top left  
Entrance door handle with round rose

Top right  
Entrance door handle with back plate

Bottom right  
**Threshold**

The unique construction ensures that any rainwater which hits the door is then drained away, making sure no water enters the building when the front door is opened.





## Patio doors

Enjoy maximum daylight

With a patio door, you will get quick access to your garden, terrace and balcony. The patio door, with its large glass area, lets extra light into your home and provides a better view.

With a patio door from Rationel, you can have a tailor-made product made for your individual needs. If you want a bigger opening, you can choose to get a double patio door (two-leafed) instead of a single patio door (one-leafed), thereby allowing more light into your home. You may also consider whether the patio door should have mullions and whether you want glass with special properties.

# Details

## Patio doors

Rationel manufacture two types of patio doors. The original patio door, which is characterized with the same frame profile as an entrance door. And the new generation of patio doors which have the same slim profile as a window, known as a casement door.



Top left  
**Casement door**

Our outward opening casement doors provide the perfect access to balconies, gardens and patios. The slim construction is designed to allow maximum levels of daylight and heat into your home, so you can enjoy the outdoor views.

Bottom left  
**Handle with child lock**

Available for Patio and Casement doors.



Top right  
**Patio door**

Patio doors are the best option to bring the best of the outside into your home. Available as either inward or outward-opening, patio doors are ideal for easy access to balconies, gardens and patios.

Bottom right  
**Patio door handle**

With key internally only. Only available for Patio doors.



# 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

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	Min. height	Max. width	Max. height
653mm	1,703mm	1,198mm	2,398mm



### Glazed entrance door

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 locking espagnolette bolt.

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	Min. height	Max. width	Max. height
653mm	1,703mm	1,198mm	2,498mm



### 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



### 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.**

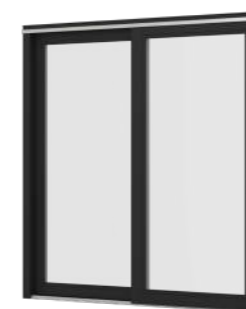
Min. width	Min. height	Max. width	Max. height
1,003mm	1,803mm	1,998mm	2,198mm



### 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	Min. height	Max. width	Max. height
938mm	1,703mm	2,328mm	2,398mm



### Sliding door

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. height	Max. width	Max. height
1,788mm	1,863mm	3,588mm	2,388mm

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

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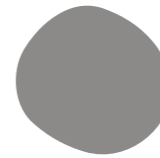
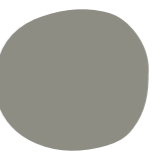
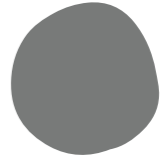

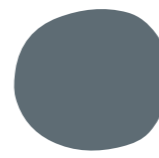
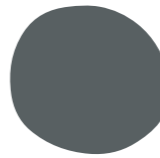
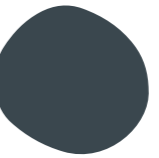
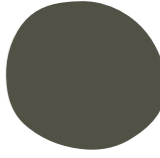

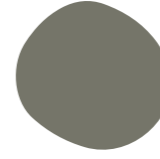
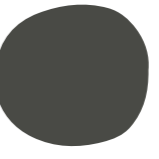
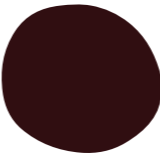

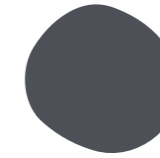

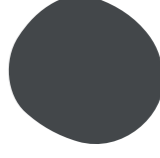

# Colour

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.



# 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.

				
RAL 9010 Pure white	RAL 9001 Creme	RAL 9003 Signal white	RAL 9002 Grey white	RAL 7035 Light grey
				
RAL 7044 Silk grey	RAL 7038 Agate grey	RAL 9007 Grey aluminium	RAL 7030 Stone grey	RAL 7037 Dusty grey
				
RAL 7001 Silver grey	RAL 7015 Slate grey	RAL 7012 Bastalt grey	RAL 7016 Anthracite grey	RAL 7013 Brown grey
				
RAL 1035 Pearl beige	RAL 7032 Pebble grey	RAL 7003 Moss grey	RAL 7022 Umbra grey	RAL 6003 Olive green
				
RAL 8017 Chocolate	RAL 8019 Grey brown	RAL 7024 Graphire grey	RAL 9004 Signal black	RAL 7021 Black grey
				
RAL 8022 Black brown	RAL 9005 Jet black			

# 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.



Top

### 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.

Top

### 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.

Top

### Reinforced screws

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

Bottom

### Letterbox

The letterbox has an inner protective 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.



Air permeability  
**600Pa**



Wind resistance  
**1600Pa**



Operation  
**10.000 cycles**



Water tightness  
**600Pa**

## Good, solid, quality craftsmanship

Rational 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, Rational has developed into an international company with sales activities in Denmark, Great Britain and Ireland.

As the market has developed, regulations and expectations changed, Rational 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.

Rational 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 [rational.ie](http://rational.ie)