

Beautiful design for sustainable living.

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Our story



From a small workshop in Denmark in 1954, a lone carpenter worked diligently to create his first order of 31 barn windows. He invested the profits in modern machinery and Rationel was born.

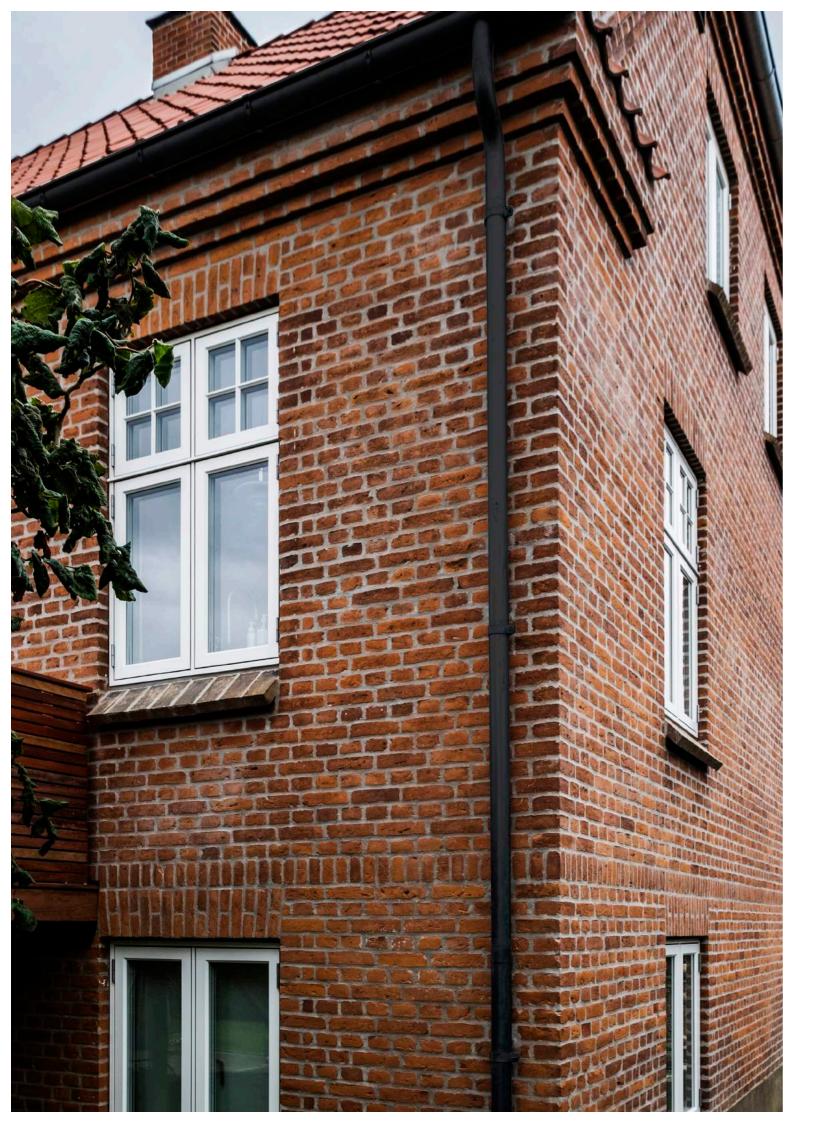
More than 60 years later we're still here, shipping 600,000 state-of-the-art windows and doors around the world each year. meet the highest standards of All of them bespoke, all of them beautiful. We may have grown, but we've maintained our firm focus on quality craftsmanship and service.

Rationel 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 comfort, security and weathertightness. 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.



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: www.rationel.co.uk



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.

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.

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.

AURA and AURAPLUS

Our contemporary style



Casement door

AURA

Key features:

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

Triple glazed:

- 0.78 W/m² K U-value
- 42 dB Rw sound reduction

Double glazed:

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

AURAPLUS

Key features:

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

Triple glazed:

- 0.79 W/m² K U-value
- 42 dB Rw sound reduction

Double glazed:

- 1.29 W/m² K U-value
- 40 dB Rw sound reduction









AURA and AURAPLUS come with security hardware as standard to meet Secured by Design requirements. The majority of timber originates from FSC^{\otimes} -certified forests. Read more at www.rationel.co.uk

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

FORMA and FORMAPLUS

Our traditional style



Double side hung window with satin glass



This residential development used sideguided windows with horizontal glazing bar



Double patio door

FORMA

Key features:

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

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

FORMAPLUS

Key features:

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

Triple glazed:

- 0.80 W/m² K U-value
- 43 dB Rw sound reduction

Double glazed:

- 1.28 W/m² K U-value
- 40 dB Rw sound reduction









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 www.rationel.co.uk

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

Window types and openings

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





Top guided

Opening function

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.

Opening function

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.

Fully reversible

Opening function

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.

Measurements

Min. width	358mm
Min. height	383mm
Max. width	1,798mm

Measurements

Min. width	553mm
Min. height	548mm
Max. width	1,598mm
May haight	1 500mm

Measurements

Min. width	253mm
Min. height	253mm
Max. width	2,998mm
Max. height	2,998mm

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



Side hung

Opening function

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	353mn
Min. height	358mn
Max. width	948mn
Max. height	1,798mn



Side guided

Opening function

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

Min. width	453mr
Min. height	438mr
Max. width	998mr
Max. height	1,798mr

Measurements



Tilt and turn

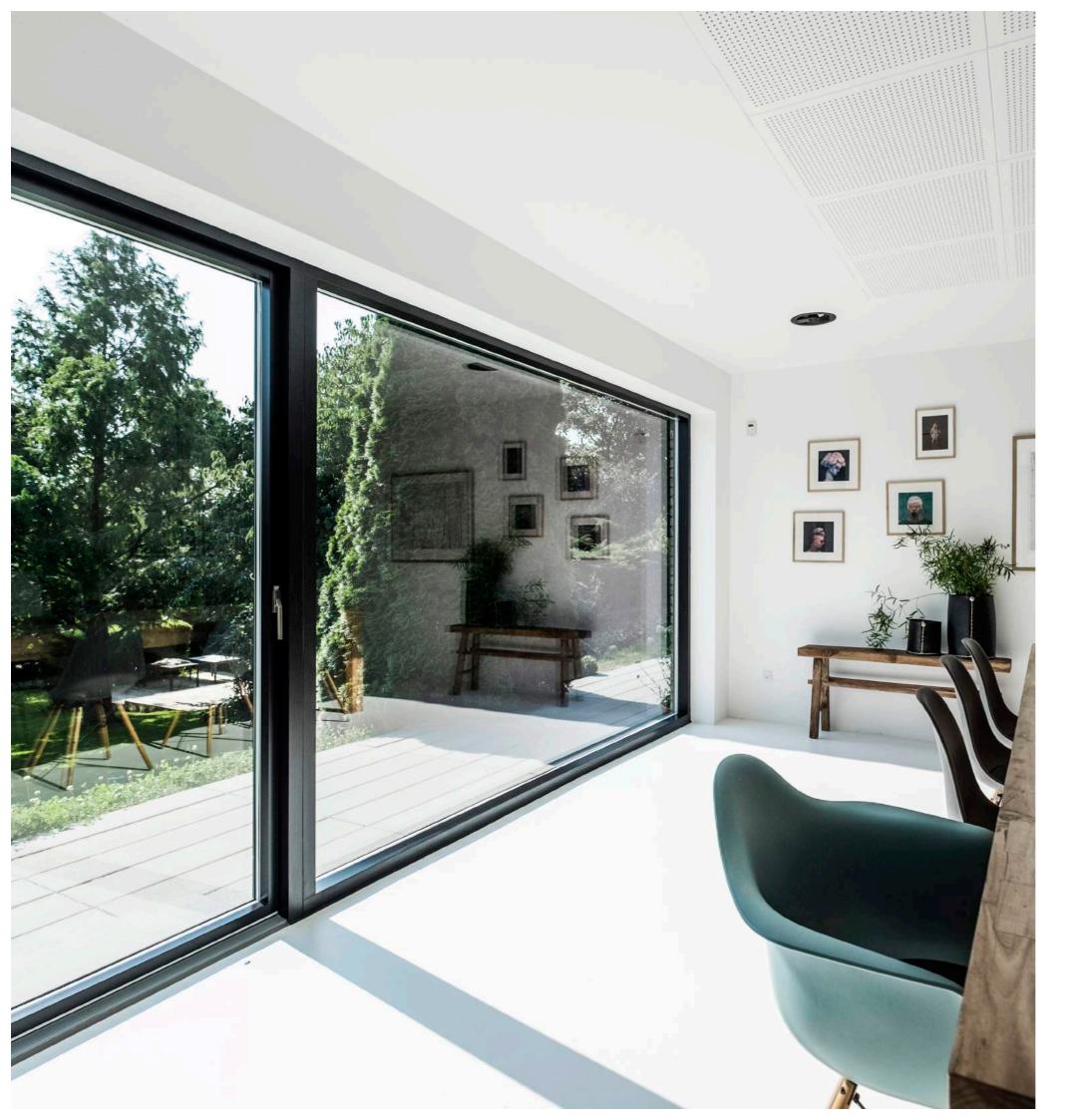
Opening function

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.

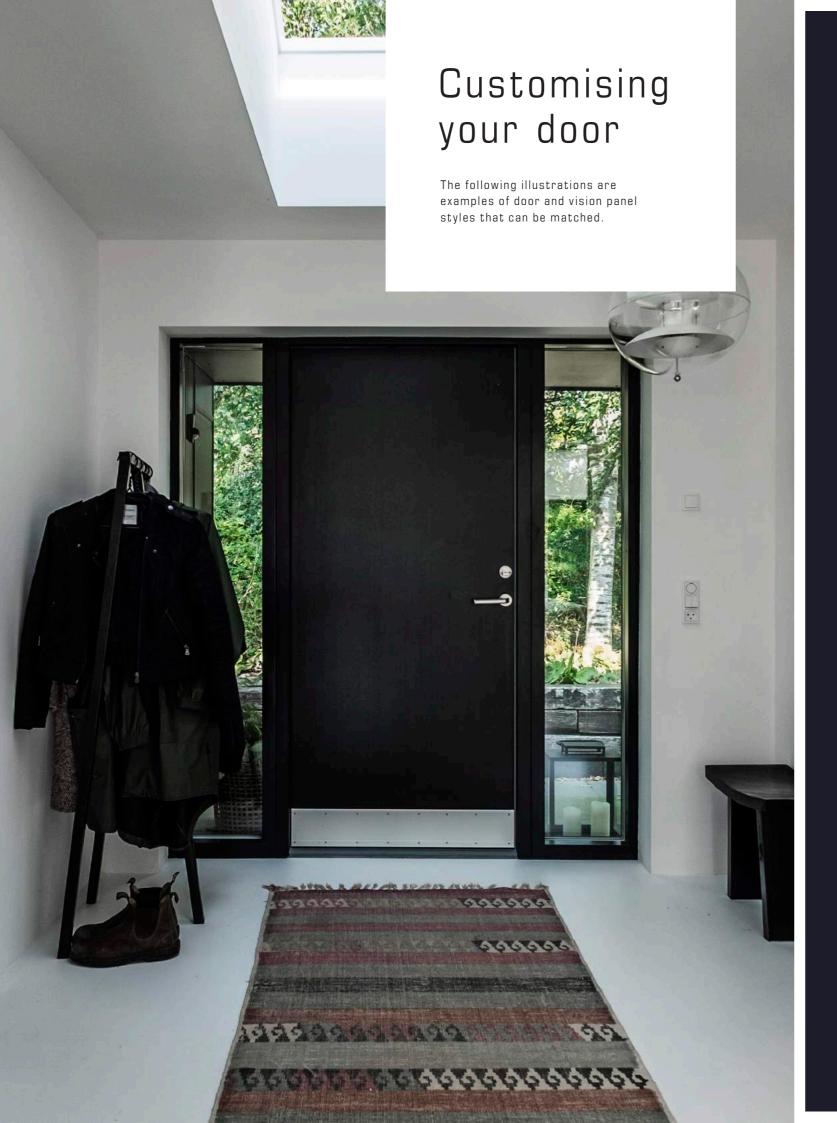
Measurements

Min. width	478mm
Min. height	438mm
Max. width	1,298mm
Max. height	1,598mm



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 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



Oval

Plain





Rectangle







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 with single glazing bar



Glazed door with two glazing bars



Multi-light glazing door



Multi-light glazing door



Multi-light glazing door

For your inspiration



Glazed entrance door



U2
Glazed entrance door



Flush entrance door



Flush entrance door



O5
Flush entrance door with integrated sidelight



O6
Flush entrance door with integrated sidelight



07
Flush entrance door with sidelight



O8
Glazed entrance door with intergrated sidelight

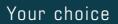


O9

Double casement door



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Sliding door
Only available in AURAPLUS
triple-glazed only



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



Door types and openings

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





Flush entrance door

Features

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.

Measurements

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

Glazed entrance door

Features

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.

Features

Patin door

Available as either inwardor 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.

Measurements

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

Measurements

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

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



Tilt and turn door

Features

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

Measurements

Min. width Min. height

Max. width

Max. height



AURAPLUS triple-glazed only.



Casement door

Features

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 powdercoated adjustable hinges and fitted with a minimum threepoint locking espagnolette bolt.

Measurements

1,003mm

1,803mm

1,998mm

2,198mm

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

Sliding door

Features

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.

Measurements

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

Glazing options

Rational 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 OBSCURE
Our panes are designed to
restrict the view into private
areas such as bathrooms. Choose
from six different types of glass
to get the combination of light
and privacy you desire.



Rationel SAFETY
Our glass holds together
when shattered, reducing the
risk of injury if someone falls
into the pane. The toughened
glass is designed to fall out
of the sash and shatter into
small, harmless pieces. Panes
can be made of toughened
glass, laminated glass or a
combination of both.



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.



Rational SOUND
If your home is subject to
environmental noise, our noisereducing 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.

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

Handles and accessories

Customise your windows and doors with different handles and accessories.



Handle for outward opening window and patio door



Handle with child lock



Handle with lockable child safety lock



Entrance door handle with round rose key thumb turn



Entrance door handle with round rose key-key



Entrance door handle with back plate key thumb turn



Entrance door handle with back plate key-key



Patio door handle with key internal only



Sliding door finger pull



Sliding door handle



Night vent position



Restrictor



Secured by Design letterplate



Normal letter plate

2

Secured by Design and Part Q

Secured by Design

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 espagnolette locking mechanism inhibits burglary.



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



Reinforced espagnolette increases the strength of all closing points.



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



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



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.





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 be subject to additional costs and lead times.

Colours shown are indicative only.

Our most popular RAL colours are:

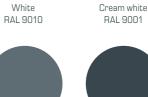


Anthracite grey RAL 7016





RAL 9010



Slate grey RAL 7015



Anthracite grey RAL 7016



Mid grey RAL 7042

Light grey RAL 7035



RAL 7001



Dark brown





Navy blue RAL 5013



Beige grey RAL 7006



RAL 3011

RAL 1018



Dark green RAL 6007

Pebble grey RAL 7032

Beige RAL 1001

Blue black







Light grey (S2150)



Medium grey (S2400) Warm grey (S2900)



Granite

Available for external AURAPLUS and FORMAPLUS windows and doors only.

Colours shown are indicative only.



Granite 01

Granite 60 Dark grey (S2100)



Granite 80 Black (S900)







Turn your dream home into a design reality

Rationel is part of the VKR Group, whose mission is to establish mode 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.

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All images are for inspiration only and are subject to change.