

# Rational FORMA & FORMAPLUS



The window concept for refurbishment and new build in a traditional style

2018

# Traditional style

Rationel FORMA & FORMAPLUS





# FORMA & FORMAPLUS

## Product details



Two gaskets



Fully adjustable ironmongery



Option of trickle vent

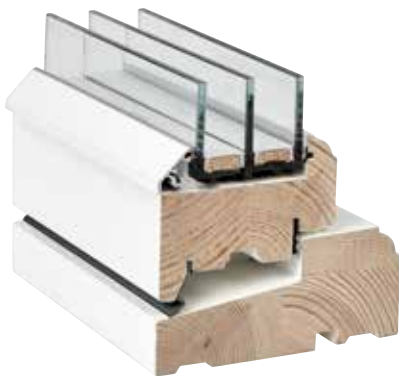
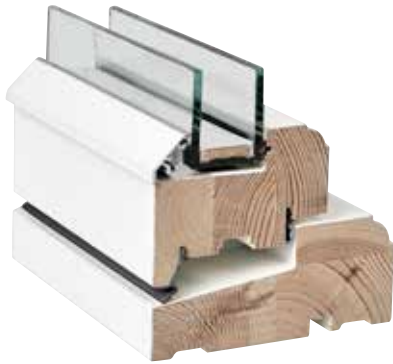


Security ironmongery



Option of glazing bar (25 mm)

# Timber & Timber/aluminium



## Rationel FORMA

Our 'energy-contributing' Rationel FORMA windows offer the same excellent properties as Rationel FORMAPLUS, but these windows are made entirely from timber. The angled glazing bead and ovolo moulded profile make it an ideal choice for country-style and traditional designs. Rationel FORMA ensures that high levels of daylight and solar heat gain are achieved. This free heat is the best energy source available and also provides a healthy and comfortable indoor climate. These windows come with security ironmongery as standard, and are suitable for Passiv Haus buildings.

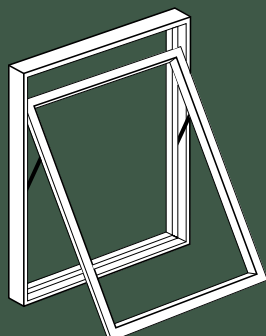
## Rationel FORMAPLUS

The design of FORMAPLUS is slim and traditional, available in a range of country-style designs with various configurations of glazing bars. The slim design also allows maximum natural light into the home.

Made from timber, with external aluminium cladding, Rationel FORMAPLUS offers all the benefits of natural wood on the inside and easy maintenance on the outside. The range is available with security ironmongery as standard, and are suitable for Passiv Haus buildings.

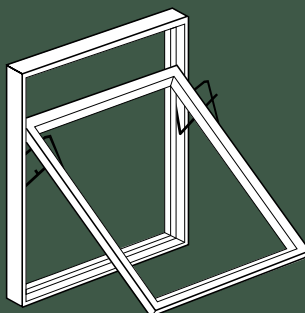
Rationel FORMA & Rationel FORMAPLUS come with security hardware as standard to meet SBD requirements. The vast majority of timber originates from FSC-certified forests. Read more at [www.rationel.co.uk](http://www.rationel.co.uk)

# Opening types



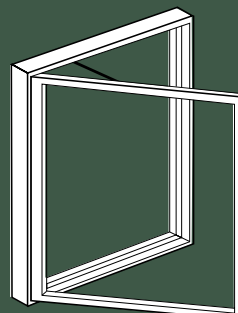
Top  
guided

Top Guided windows are a simple, elegant and user-friendly design. Opening is controlled by tracks and slides. When opening the window the top of the sash slides downwards as the bottom of the sash opens outwards. Adjustable friction ironmongery allows an almost infinite choice of open positions.



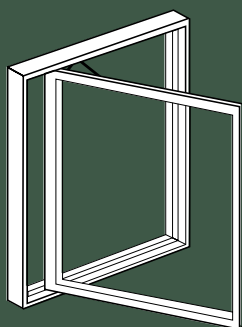
Top  
swing

In everyday operation the fully reversible window functions as a Top Guided window. However it is possible to turn the sash through 170 degrees to clean the glass from the inside.



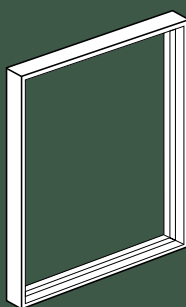
Side  
hung

Side Hung windows are controlled with tracks and slides. On windows over 424 mm wide and 530mm high, the handle controlled friction brake allows the window to be fixed in any open position.



Side  
guided

Side Guided windows are controlled by tracks and slides that allow the window to be fixed in any open position. However, when opened, the hinge side of the sash moves toward the middle to create an opening that allows the glass to be cleaned from the inside.



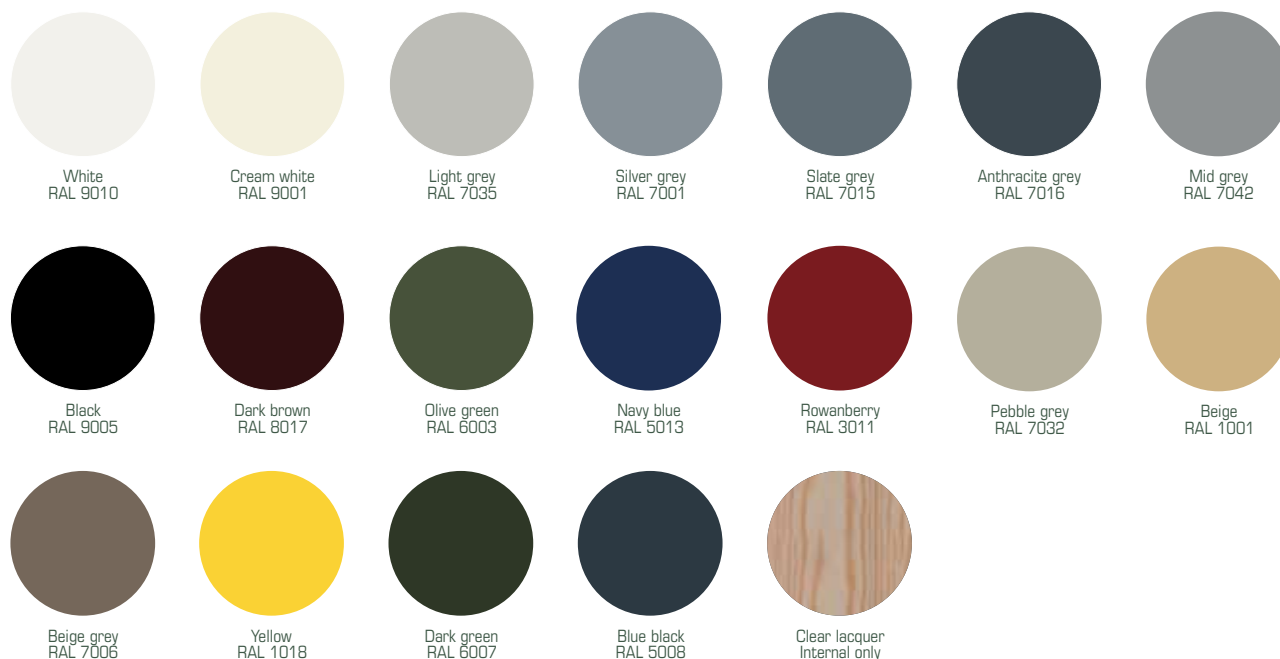
Fixed  
light

Fixed Light windows are ideal wherever maximum internal light and solar heat gain is required. Fixed Lights can be fitted with trickle vents for ventilation.

# Colours

## Standard RAL Colours

The colours shown cannot be reproduced exactly.



When choosing windows and doors from Rationel, it is possible to enhance the appearance and character of your house through your choice of colour. Our standard colours suit the majority of architectural styles and traditions in the United Kingdom. We also offer a special range of colours, which you can use to highlight particular features of your home.

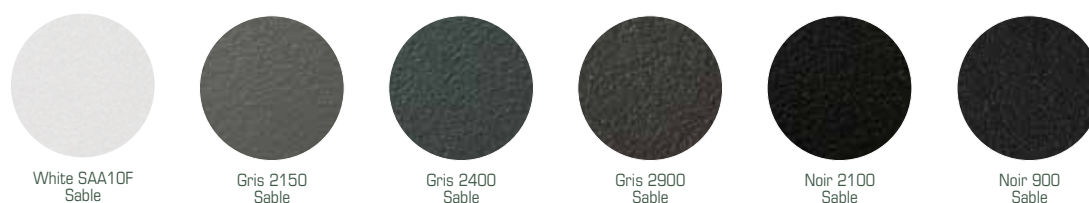
### Standard RAL colours

Rationel FORMA and Rationel FORMAPLUS windows and doors are available in one standard colour on both the inside and outside of the frame. It is possible to have a split colour solution on Rationel FORMAPLUS, where you are able to have a different colour on the outside to what you choose for the inside.

If you require a colour that is not listed within our Standard colour range above, we are able to offer any colour from the RAL classic range; these will be subject to additional costs and lead times.

## Granite (FORMAPLUS only)

The colours shown cannot be reproduced exactly.












# Technical information

Minimum/maximum sizes  
Durability tests  
Sectional details

# Minimum/maximum sizes

Opening function	Minimum width	Minimum height	Maximum width	Maximum height
 Top Guided	358 mm	388 mm	1798 mm	1598 mm
 Side Hung	358 mm	358 mm	948 mm	1798 mm
 Side Guided	458mm	438 mm	998 mm	1598 mm
 Top Swing	558 mm	548 mm	1598 mm	1598 mm
 Fixed Light	250 mm	250 mm	2998 mm	2998 mm

Max width and height are subject to glass weight and spec.

# Durability tests

A series of test videos are available to view on the website



Air permeability  
600PA



Wind resistance  
1600PA



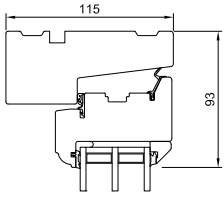
Operation  
10.000 cycles



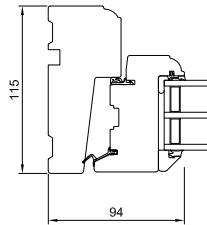
Water tightness  
600PA

# Sectional details

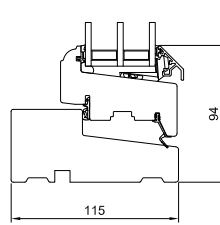
## FORMA



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

Best performance  
(triple glazed)

0,78

U-Value  
W/m<sup>2</sup>K EU-size



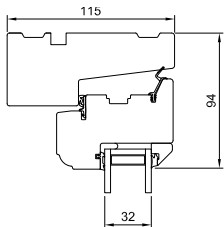
Part Q  
Compliant

43

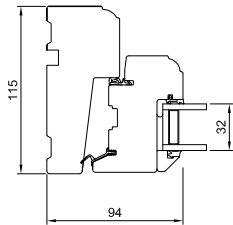
Sound reduction  
dB Rw

60

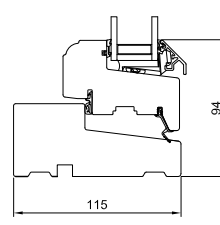
Life expectancy  
years



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

Best performance  
(double glazed)

1,29

U-Value  
W/m<sup>2</sup>K EU-size



Part Q  
Compliant

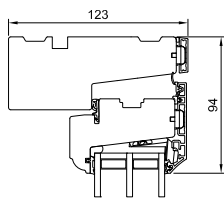
34

Sound reduction  
dB Rw

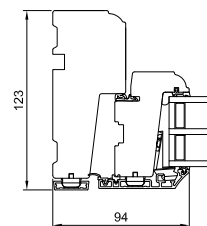
60

Life expectancy  
years

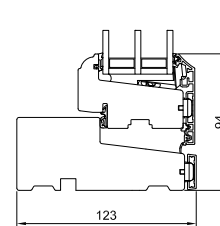
## FORMAPLUS



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

Best performance  
(triple glazed)

0,79

U-Value  
W/m<sup>2</sup>K EU-size



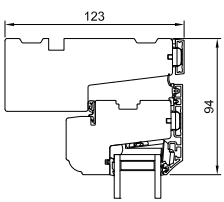
Part Q  
Compliant

43

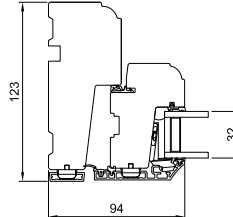
Sound reduction  
dB Rw

85

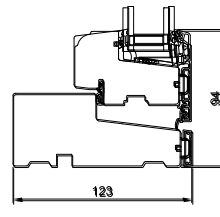
Life expectancy  
years



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

Best performance  
(double glazed)

1,29

U-Value  
W/m<sup>2</sup>K EU-size



Part Q  
Compliant

34

Sound reduction  
dB Rw

85

Life expectancy  
years

Good, solid, quality workmanship has characterised Rational's windows and doors since the first products were shipped from our factory in Sdr. Felding in 1954. Based on this sound foundation, Rational is today an international company with sales offices in Great Britain, Ireland and Denmark.

Rational manufactures energy saving windows and doors of premium quality in terms of both comfort and security. Our continuous programme of research and development ensures that the company always meets current statutory requirements as well as market requirements for design and functionality.

Rational is part of the DOVISTA Group, which consists of ten leading door and window companies in Europe. DOVISTA A/S is owned by VKR Holding and employs approximately 13,500 people in more than 40 countries.

[www.rational.co.uk](http://www.rational.co.uk)



**WOOD. AT THE HEART  
OF A GOOD WINDOW**

