

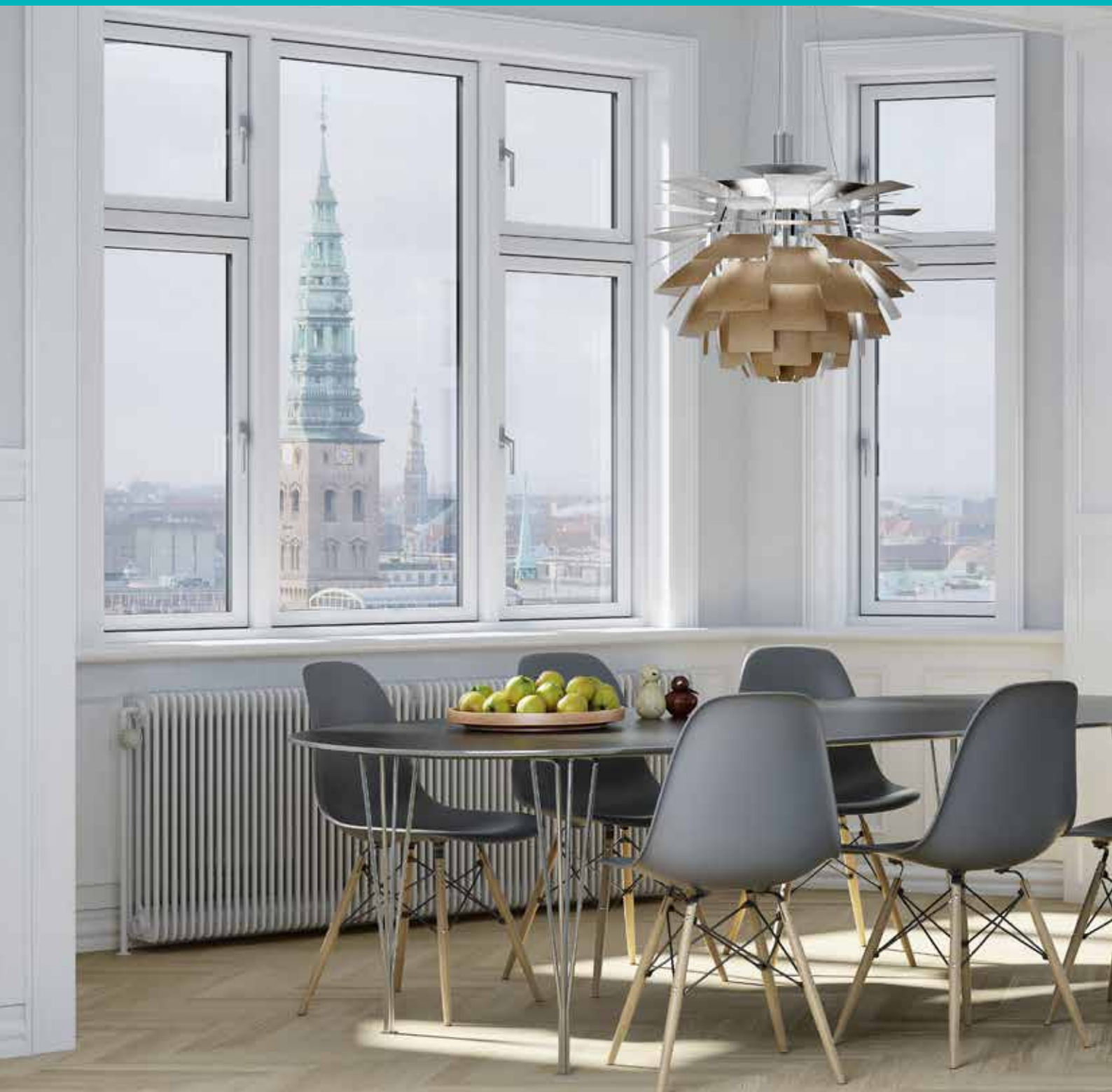
FORMA & FORMAPLUS

THE WINDOW CONCEPT FOR
REFURBISHMENT AND NEW
BUILD IN A TRADITIONAL STYLE



CLASSICAL STYLE

FORMA & FORMAPLUS





FORMA & FORMAPLUS PRODUCT DETAILS

1



Two gaskets

2



Fully adjustable ironmongery

3



Option of trickle vent

4



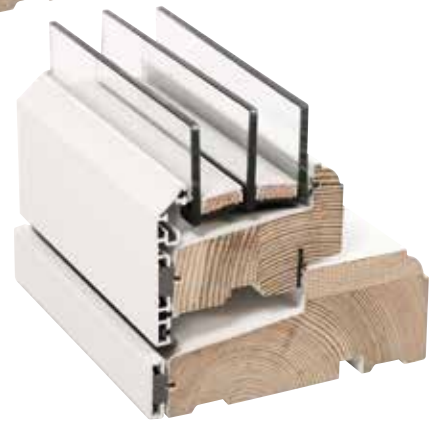
Security ironmongery

5



Option of glazing bar (25 mm)

TIMBER & TIMBER/ALUMINIUM



Rational FORMA

Our 'energy-contributing' Rational FORMA windows offer the same excellent properties as Rational 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. Rational 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.

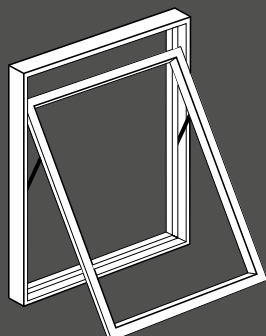
Rational FORMAPLUS

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, Rational 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.

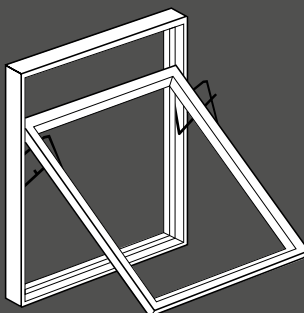
Rational FORMA & Rational FORMAPLUS come with security hardware as standard to meet SBD requirements. The vast majority of timber originates from FSC-certified forests. Read more at www.rational.co.uk

OPENING TYPES



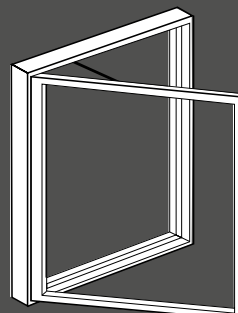
TOP
GUIDED

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.



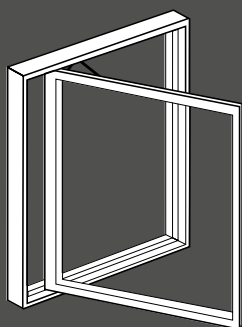
TOP
SWING

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.



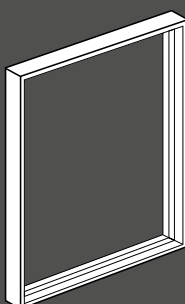
SIDE
HUNG

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.



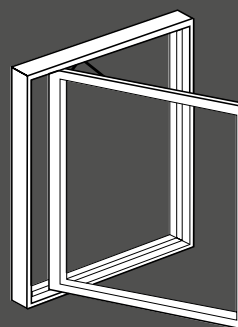
SIDE
GUIDED

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.



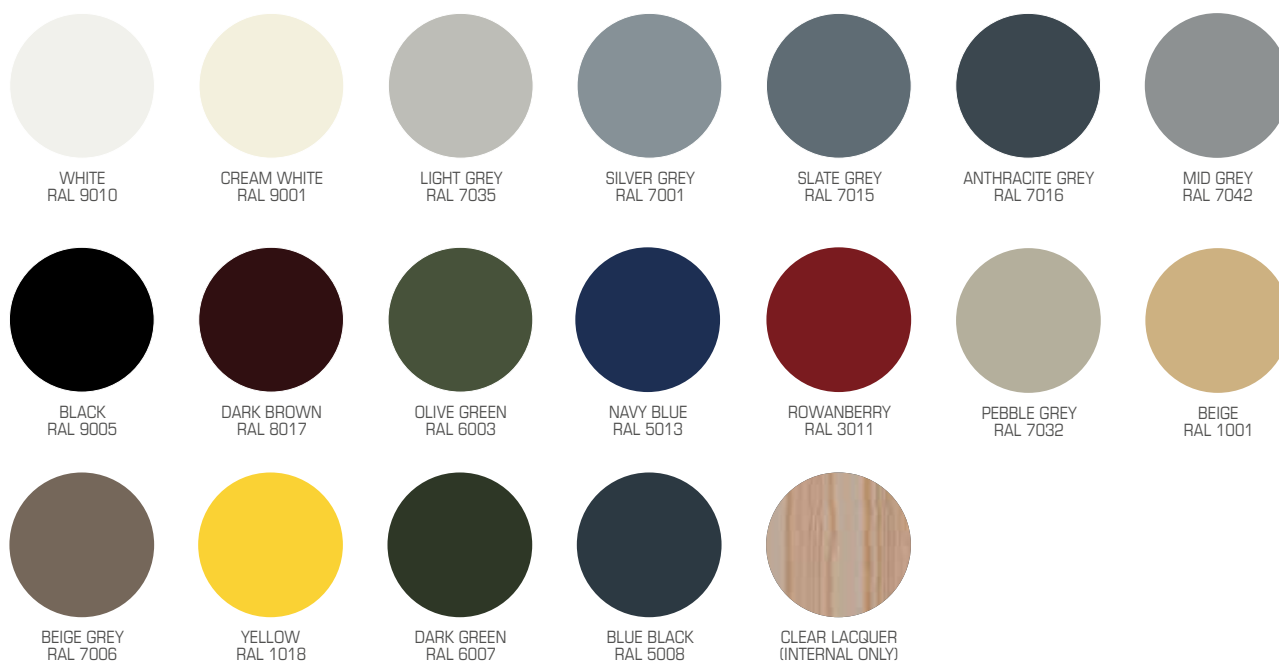
SIDE
SWING

The side-swing window is a modern outward-opening window where the sash can be swung approximately 160° in the horizontal plane. The window is especially suited to smaller sash widths of up to 1000mm. Since the sash is able to be swung almost 180°, it becomes a simple task to clean the outside of the window from within the house.

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 COLOURS (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
 SIDE SWING	478 mm	530 mm	998 mm	1599 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



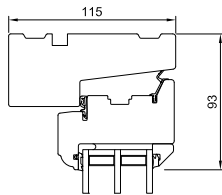
OPERATION
10.000 CYCLES



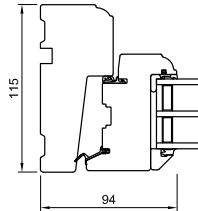
WATER TIGHTNESS
600PA

SECTIONAL DETAILS

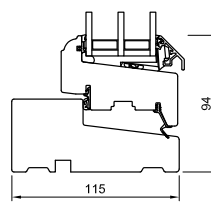
FORMA



1 Vertical section head



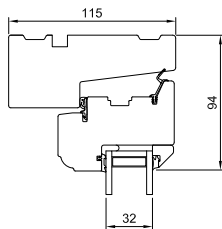
2 Horizontal section jamb



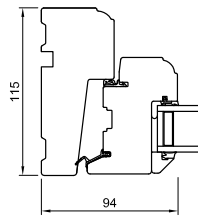
3 Vertical section sill

BEST PERFORMANCE

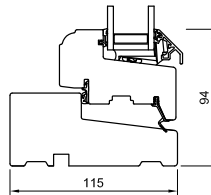
0,78 U-VALUE W/m ² K EU-SIZE	Secured by Design Official Police Security Solution
	PART Q COMPLIANT
43 SOUND REDUCTION dB Rw	60 LIFE EXPECTANCY YEARS



1 Vertical section head



2 Horizontal section jamb

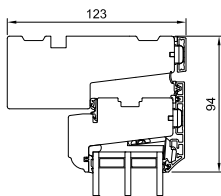


3 Vertical section sill

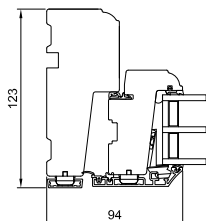
BEST PERFORMANCE

1,29 U-VALUE W/m ² K EU-SIZE	Secured by Design Official Police Security Solution
	PART Q COMPLIANT
34 SOUND REDUCTION dB Rw	60 LIFE EXPECTANCY YEARS

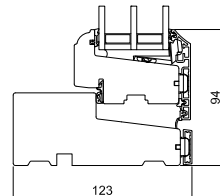
FORMAPLUS



1 Vertical section head



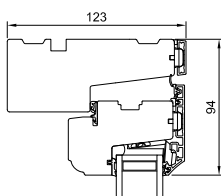
2 Horizontal section jamb



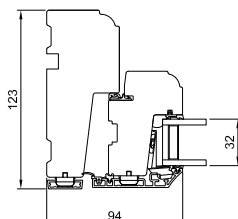
3 Vertical section sill

BEST PERFORMANCE

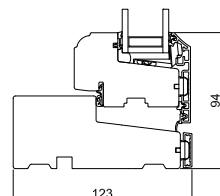
0,79 U-VALUE W/m ² K EU-SIZE	Secured by Design Official Police Security Solution
	PART Q COMPLIANT
43 SOUND REDUCTION dB Rw	85 LIFE EXPECTANCY YEARS



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

BEST PERFORMANCE

1,29 U-VALUE W/m ² K EU-SIZE	Secured by Design Official Police Security Solution
	PART Q COMPLIANT
34 SOUND REDUCTION dB Rw	85 LIFE EXPECTANCY YEARS

Download full set of drawings at www.rationel.co.uk

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