rationel®
WINDOWS & DOORS

HAVANT BOROUGH COUNCIL
- 4 JAN 2019
RECEIVED

AURA & AURAPLUS

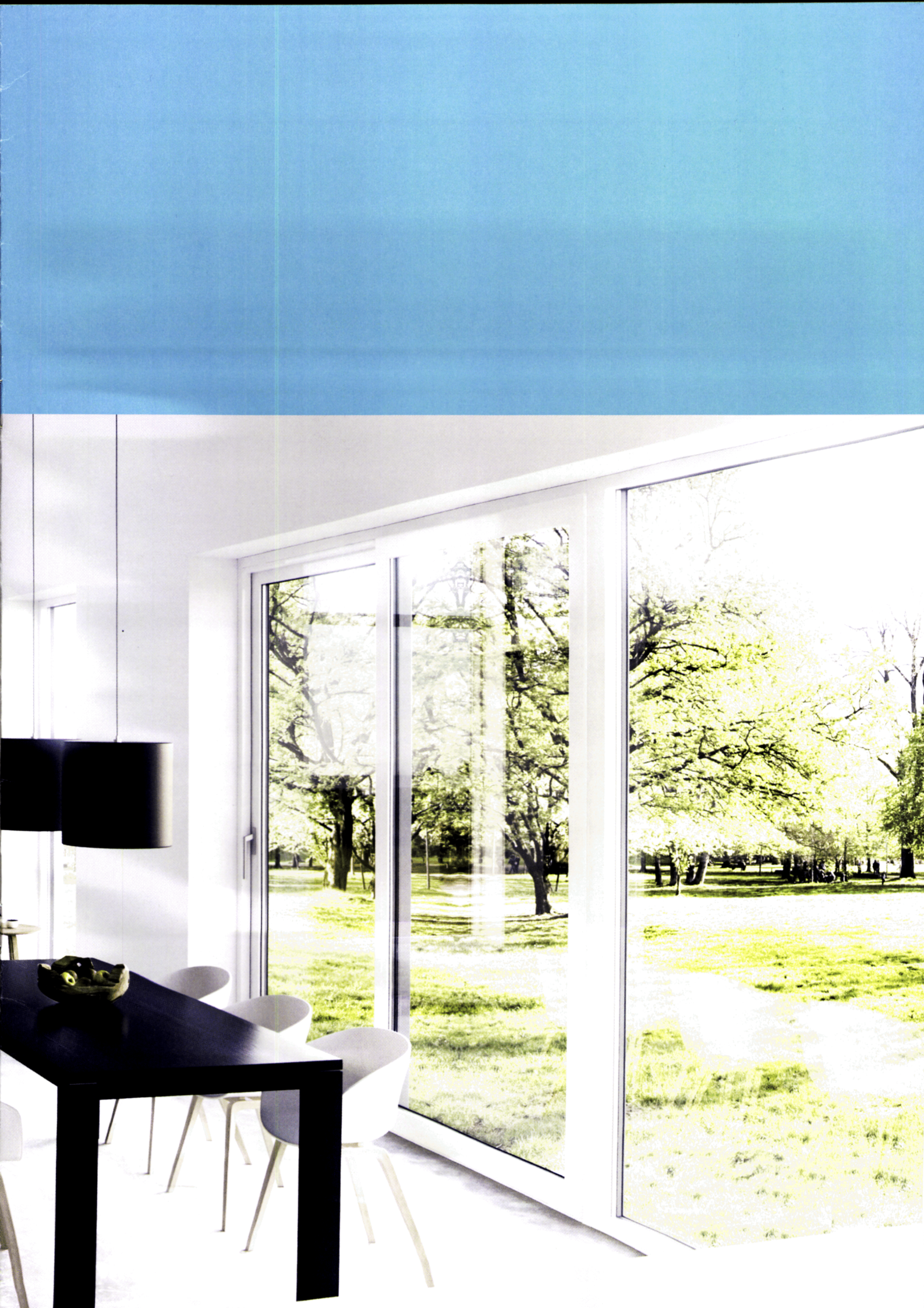
THE WINDOW CONCEPT
OF THE FUTURE



MODERN STYLE

RATIONEL AURA & AURAPLUS





AURA & AURAPLUS PRODUCT DETAILS

1



Two gaskets

2



Fully adjustable ironmongery

3



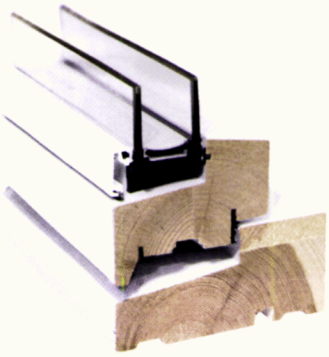
Option of trickle vent

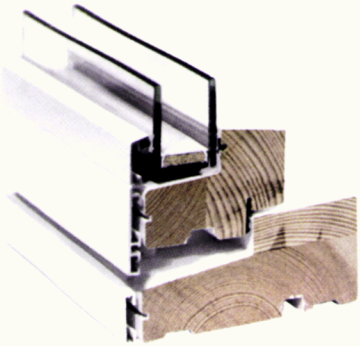
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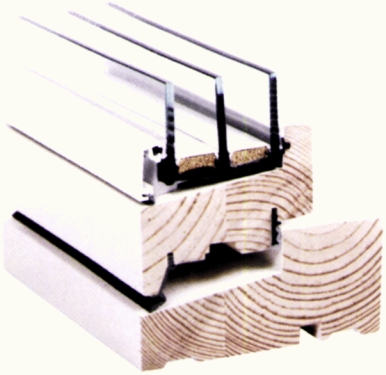


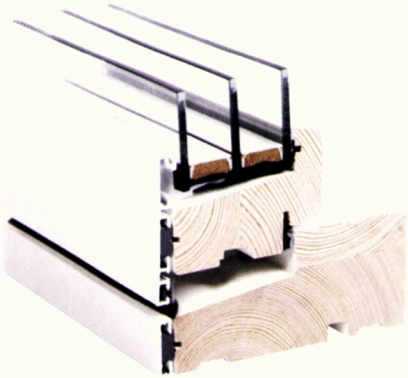
Security ironmongery and
option of glazing bar (31 mm)

TIMBER & TIMBER/ALUMINIUM









Rationel AURA

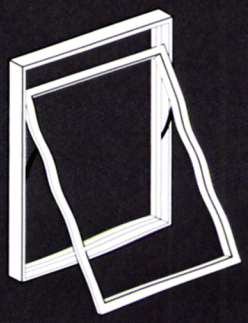
Our 'energy-contributing' Rationel AURA windows offer the same excellent properties as Rationel AURAPLUS, but these windows are made entirely from timber. You can therefore combine a beautiful natural look with a clean contemporary design for modern buildings and Passiv Haus. Rationel AURA ensures that 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 AURAPLUS

The design of AURAPLUS is slim and elegant, creating a stylish overall architectural appearance, whether you are building a new house or refurbishing an existing one. The slim design also allows maximum natural light into the home. Made from timber, with external aluminium cladding, Rationel AURAPLUS 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.

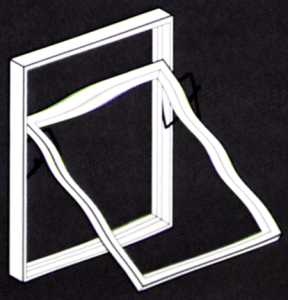
Rationel AURA & Rationel AURAPLUS come with security hardware as standard to meet SBD requirements.
The vast majority of timber originates from FSC-certified forests. Read more at www.rationel.co.uk

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.



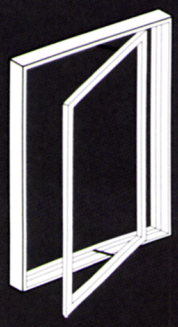
TOP SWING

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.



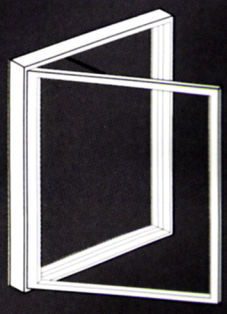
FIXED LIGHT

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.



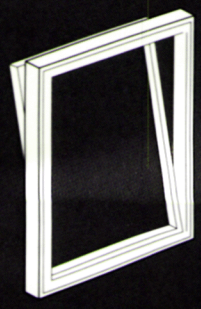
SIDE GUIDED

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.



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.



TILT & TURN

Tilt and Turn windows function in two ways. The tilt function opens the top of the sash inwards for ventilation, whilst the turn function creates an inward opening side hung operation.
Tilt & turn windows can be cleaned from the inside and can also be used as emergency exits. This opening style is also available solely as a bottom hung window (with handle at the top of the sash) or as an inward opening side hung window. Available in Auraplus only.

COLOURS

STANDARD RAL COLOURS

The colours shown cannot be reproduced exactly



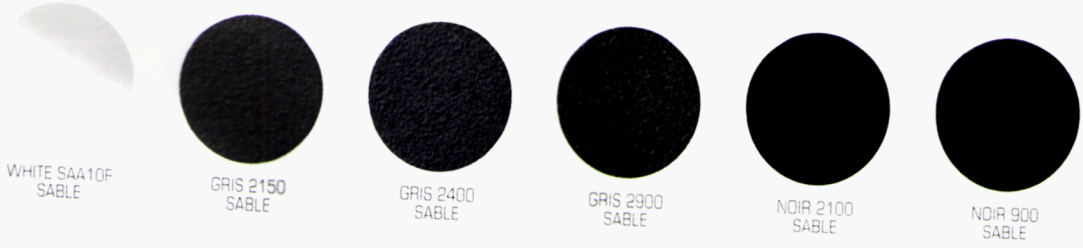
STANDARD RAL COLOURS

Rationel AURA and Rationel AURAPLUS 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 AURAPLUS, 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 (AURAPLUS 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
	TILT AND TURN	500 mm	510 mm	1300 mm	2400 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



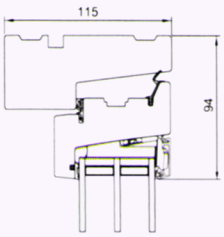
OPERATION
10.000 CYCLES



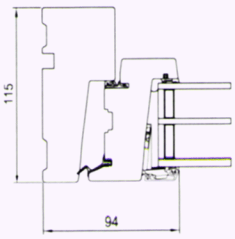
WATER TIGHTNESS
600PA

SECTIONAL DETAILS

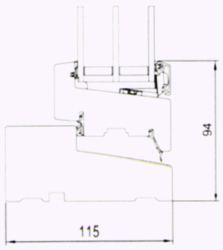
AURA



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

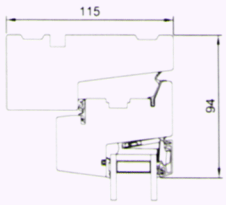
BEST PERFORMANCE

0,78 U-VALUE W/m²K EU-SIZE

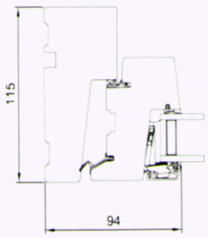
Secured by Design — PART Q COMPLIANT

43 SOUND REDUCTION dB Rw

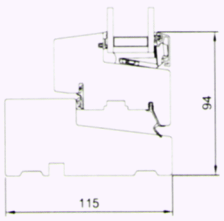
60 LIFE EXPECTANCY YEARS



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

BEST PERFORMANCE

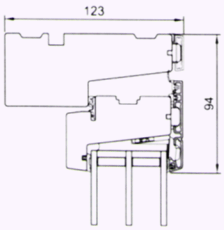
1,29 U-VALUE W/m²K EU-SIZE

Secured by Design — PART Q COMPLIANT

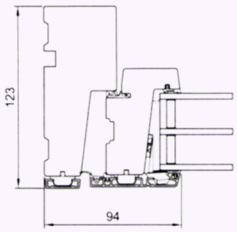
34 SOUND REDUCTION dB Rw

60 LIFE EXPECTANCY YEARS

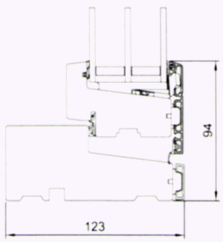
AURAPLUS



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

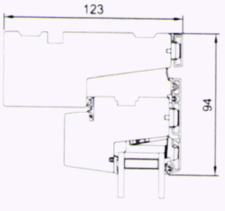
BEST PERFORMANCE

0,79 U-VALUE W/m²K EU-SIZE

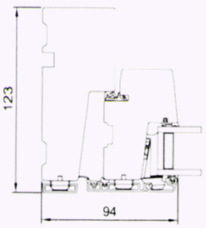
Secured by Design — PART Q COMPLIANT

43 SOUND REDUCTION dB Rw

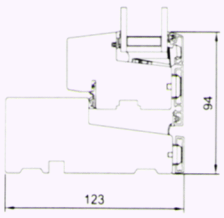
85 LIFE EXPECTANCY YEARS



1 Vertical section head



2 Horizontal section jamb



3 Vertical section sill

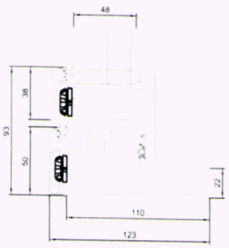
BEST PERFORMANCE

1,29 U-VALUE W/m²K EU-SIZE

Secured by Design — PART Q COMPLIANT

34 SOUND REDUCTION dB Rw

85 LIFE EXPECTANCY YEARS



4 Tilt & Turn vertical section sill

rationel®
WINDOWS & DOORS

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

Rationel 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.

Rationel 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.rationel.co.uk

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WOOD. AT THE HEART

Secured by Design