

ICENI
RAYA
UPVC WINDOWS

www.RAYA-WINDOWS.CO.UK



WHAT IS RAYA?

A brand conceived from the belief in ourself

RAYA is the suite of window products we manufacture from Rehau profile.

It's the same profile we have used for years, and the same system you are already installing.

Why the name?

Superior manufacturing elevates our product above all window products.

When you need the best, RAYA is your premier thought.

The same products, transcending others by simply making them better.

**RAYA UPVC FABRICATED
BY ICENI FROM REHAU**



THE RAYA PRODUCT RANGE

CASEMENT
WINDOWS



VERTICAL
SLIDING SASH
WINDOWS

TILT & TURN
WINDOWS

PATIO
DOORS

RESIDENTIAL
DOORS



PRODUCTS

- P10** CASEMENT WINDOWS
- P14** HERITAGE VERTICAL SLIDERS
- P18** TILT & TURN
- P22** SLIDING PATIO DOORS
- P26** ENTRANCE DOORS

TECHNICAL

- P08** WINDOW SECURITY
- P28** DOOR SECURITY
- P30** COLOUR
- P34** HARDWARE



WHY RAYA?

THE REASONS

RAYA IS PERFECT FOR YOUR NEXT PROJECT

RAYA windows offer a range of stylish energy efficient window systems to compliment any home. All offer a high gloss finish, slim sight lines and the highest possible thermal and acoustic performance.

Our uPVC window systems include; casement windows, bay windows, windows that tilt and turn and heritage style sliding sash windows.

These styles don't have to be just white, you can now choose colour and create a unique look for your home.

THE DESIRE FOR CHOICE

RAYA uPVC products will meet and exceed demands of multiple applications.

Heavy duty and light commercial, large-scale refurbishment projects and residential new builds can be supplied

THE SOLUTION IS RAYA

Enhanced security

RAYA windows and doors are tested to the highest security standards giving you an added level of security to your home and family.

The Secured by Design* police initiative endeavours to design-in security elements at an early stage of the production.

*Secured By Design is available upon specification.



SEE PAGES
8 and 28
FOR FULL
SECURITY
FEATURES



Tested independently

RAYA windows pass official testing for the highest requirements of a standard manufactured window. (BS7412)



Weather protection

Independently tested to achieve the highest ratings* for wind, water and air; protecting your home from the elements



Energy efficient

All RAYA window systems can achieve the highest Window Energy Rating (WER) A rating – ensuring your home is more efficient to save money on your heating bills

Low maintenance

A unique compound guarantees a smooth, high-gloss finish to retain their pristine appearance for years



Acoustic performance

Double glazing reduces outdoor noise levels by as much as a half!



The environment

Rehau, our main supplier, leads sustainable innovation by using co-extrusion to blend recycled and virgin PVC in window profiles, ensuring resource efficiency and circular material use.

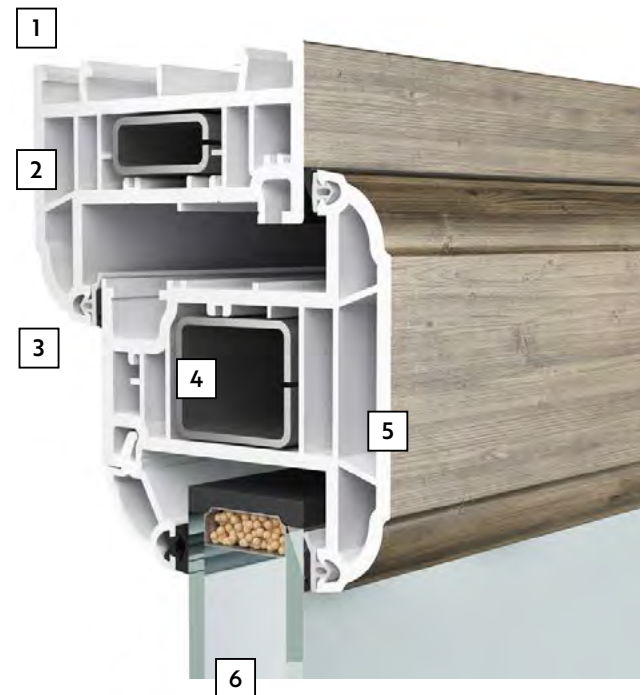
*PAS 24 rated products are available upon specification

RAYA UPVC WINDOWS

A BRAND TO MATCH
THE HIGH STANDARD OF
OUR MANUFACTURE

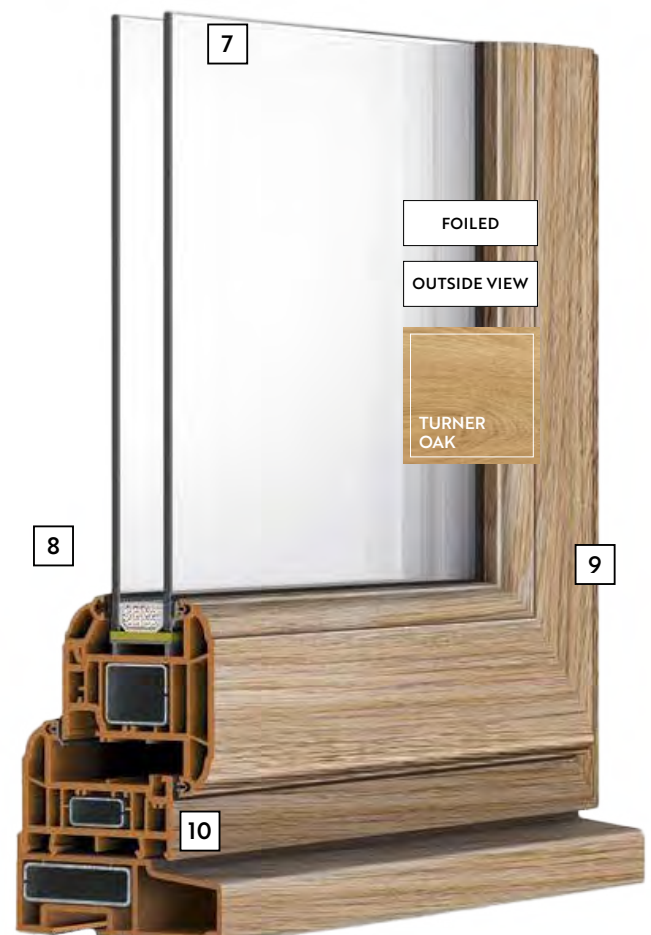
FEATURES

- 1 70mm deep window and door system
- 2 Multi-chamber profile
- 3 Integral gasket
- 4 Steel reinforcement – larger sized elements
- 5 3mm outer wall thickness
- 6 Easy glazing
- 7 Up to 44mm glazing
- 8 Choice of frame styles: sculptured or chamfered
- 9 Hardware fixed into steel
- 10 Central Euro-groove position



OPTIONS & BENEFITS

- Interchangeable profiles allow for multiple style combinations to be manufactured
- Fully sculptured detail for enhanced style to both modern and traditional properties
- Optional features include run through sash horn, clip-on Georgian bars and various glazing bead style options
- Various combinations of fixed and opening sections make this window extremely versatile
- Corrosion resistant Austenitic screws made from 302-grade Austenite stainless steel. Which is intrinsically soft making it perfect for use in our uPVC windows.
- Innovative methods of producing top-quality window profiles, enable different PVC materials to be processed on the core of the profile and the outer skin.



SUPERIOR WINDOW SECURITY

High quality needs high security

Iceni utilise **Kenrick Centurion** locking system to maintain high-security in all RAYA uPVC windows and doors.

10

SECURE
LOCKING
POINTS



GEARBOX

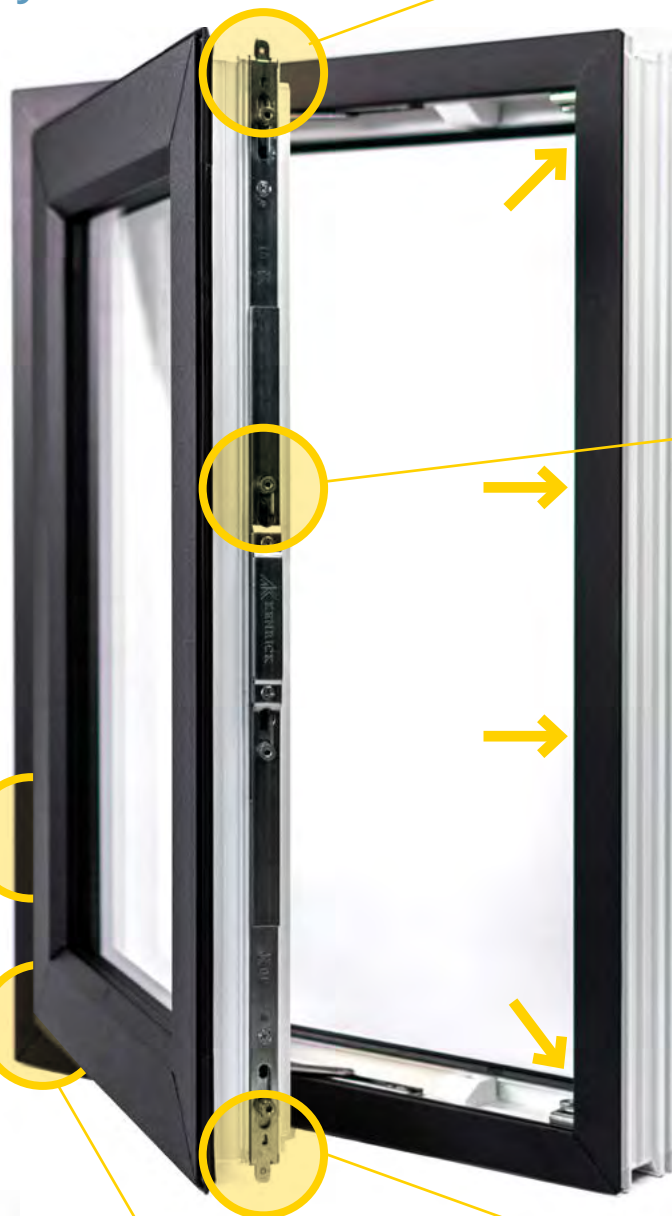
Die cast metal

ELEMENT RESISTANT

Salt spray tested to british standard

HINGE GUARDS

Hooks interlock creating a shield at the top and bottom





SHOOTBOLTS

Anchors top and bottom of sash into keeps.

Sliding bolts add further security



CENTRE LOCK

Two bolts slide into keeps



ENGINEERED FOR PEACE OF MIND

The Centurion completes our finished product ensuring every engagement is a satisfying operation

EXTRA SECURITY FEATURES

- Tested to 100,000 cycles
- 10 year mechanical guarantee
- PAS24 achievable
- Secured by Design police initiative available to specify

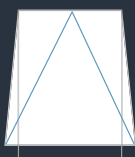


RAYA UPVC CASEMENT

The first choice for uPVC windows

CONFIGURATIONS

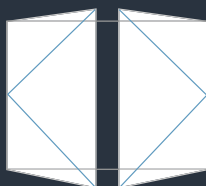
TOP HUNG



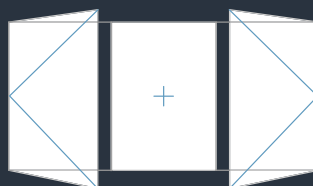
SIDE HUNG



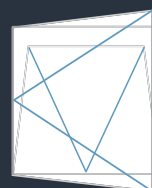
FRENCH CASEMENT



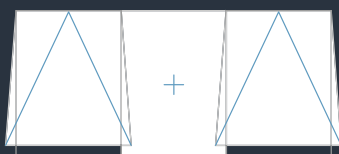
SIDE HUNG & FIXED LIGHTS



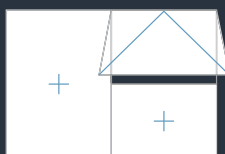
TILT & TURN



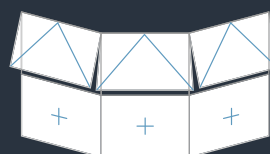
TOP HUNG & FIXED LIGHTS



MULTI LIGHT & TOP HUNG



TOP HUNG & MULTI-LIGHTS



VERTICAL SLIDERS



RAYA CASEMENT WINDOWS CAN BE COMBINED TO FORM
AN ALMOST LIMITLESS RANGE OF STYLES



A rounded finish also known as sculptured
shown with reinforcing



Also known as chamfered
shown triple glazed

0.8
W/(M²K)
U-VALUE
TRIPLE GLAZED

Multi-chamber profiles

The RAYA window range includes profiles with five chambers for improved thermal efficiency without compromising on structural capability.

Ancillary profiles

A large range of ancillary profiles including sills, weather rails, head drips, baypoles, couplers and frame extensions, are compatible across the range.

Surface finish

RAYA is renowned for its quality, demonstrated with a high gloss surface finish that provides a long-lasting appearance with little to no maintenance.

Hardware fixed into steel

If required, the hardware can be fixed into the steel reinforcement on both sash and frame. Allowing for superior technical performance and security.

Integral gasket

RAYA windows are supplied with gaskets already integrated into the profile.

TOP CLASS WINDOW FEATURES

Easy glazing

RAYA's single-leg glazing beads and retention detail guarantees on-site glazing is easy and secure.

Larger reinforcement chamber

To allow additional strength/rigidity when necessary, a larger reinforcement chamber enables a range of galvanised steels to be inserted for optimum performance.

Positive friction-stay location

To reduce the strain on screws and hinges, positive friction-stay location is added for improved performance.

TECHNICAL AREA:

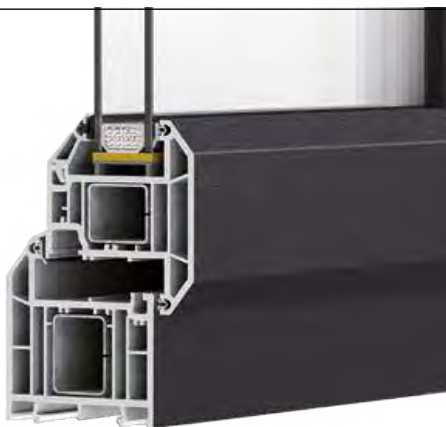
RAYA CASEMENT PROFILE

THIS IMAGE:

OUTSIDE VIEW

REINFORCED

ANTHRACITE
GREY GRAINED



CHAMFERED PROFILE

(ALSO REFERRED TO AS BEVEL)

Our most popular window system.

This chamfered (bevelled) is simple yet elegant, helping to create contemporary frames.

THIS IMAGE:

OUTSIDE VIEW

150MM SILL

REINFORCED

ELEPHANT
GREY



SCULPTURED PROFILE

(ALSO REFERRED TO AS EDGE)

A sympathetic replacement for timber carries style for both modern and traditional properties.

A decorative sculptured edge will maintain character of older properties.

SPECIFICATION	
Feature	Specification
Profile depth	70 mm
Maximum window size	1200 x 1200 mm (top hung) 900 x 1500 mm (side hung)
Maximum Thermal performance	0.8 W/m ² K
Max. sash weight	40kg
Glass width	28mm, 36mm or 44mm

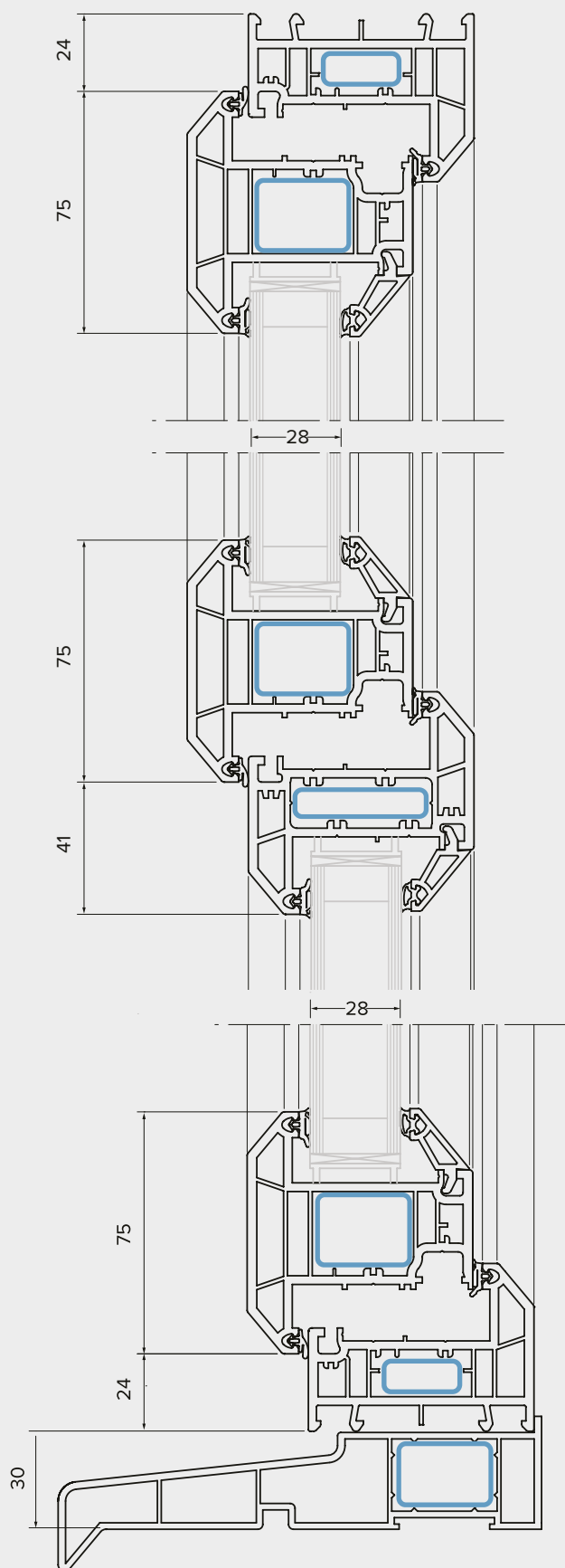


RAYA CASEMENT WINDOW (CHAMFERED)

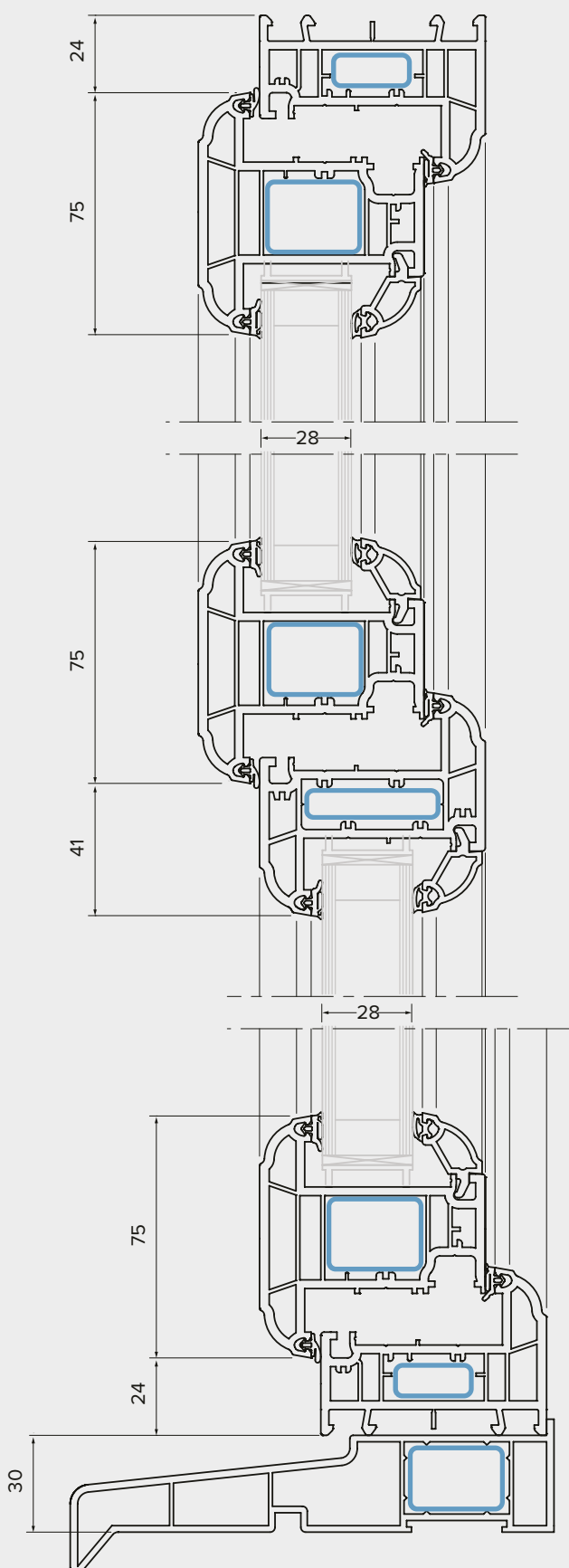
- 1 Larger reinforcement chambers allow for additional strength / rigidity when necessary
- 2 Optional features include a part sculptured T sash
- 3 Ideal replacement for British timber casement windows due to 70mm depth
- 4 28mm, 36mm or 44mm glazing options
- 5 Can achieve U-Values of 0.8 W/m²K using the triple glazed Argon sealed units.
- 6 Wide range of styles and combinations e.g. French, bay and bow windows
- 7 Complies with building regulations

TECHNICAL AREA: CASEMENT PROFILE DRAWINGS

CHAMFERED (BEVEL)



SCULPTURED (EDGE)



HERITAGE SLIDING SASH

Period style vertical sliding windows

CLASSIC CHARACTERISTICS

This vertical sliding window's deep bottom rail replicates aesthetics of traditional timber windows.

The core of this vertical sliding system has been developed following extensive consultation with conservation bodies and as a result, our sliding sash windows are the most distinctive and authentic-looking uPVC sash window available in the UK.

FEATURES

- Approved for use in UK conservation areas
- Optional Georgian bars
- Optional sash horns
- Traditional timber sash window aesthetics
- Perfect as energy-efficient replacement windows in character and period homes
- Suits Victorian, Georgian and Edwardian buildings
- Authentic period aesthetics make it perfect for use on new builds that need traditional styling





Superbly engineered and of exceptional quality, vertical sliding windows add genuine authenticity and style without sacrificing performance

ATTENTION TO DETAIL

Classic-style hardware and fittings and optional decorative horns replicate the traditional timber sash window to create a stunning finish.

Further attention to detail in the form of a deep bottom rail and optional Georgian bars add to a simply superior modern sash window.

TECHNICAL AREA:

VERTICAL SLIDING SASH

1.1
W/(m²K)
U-VALUE
TRIPLE GLAZED

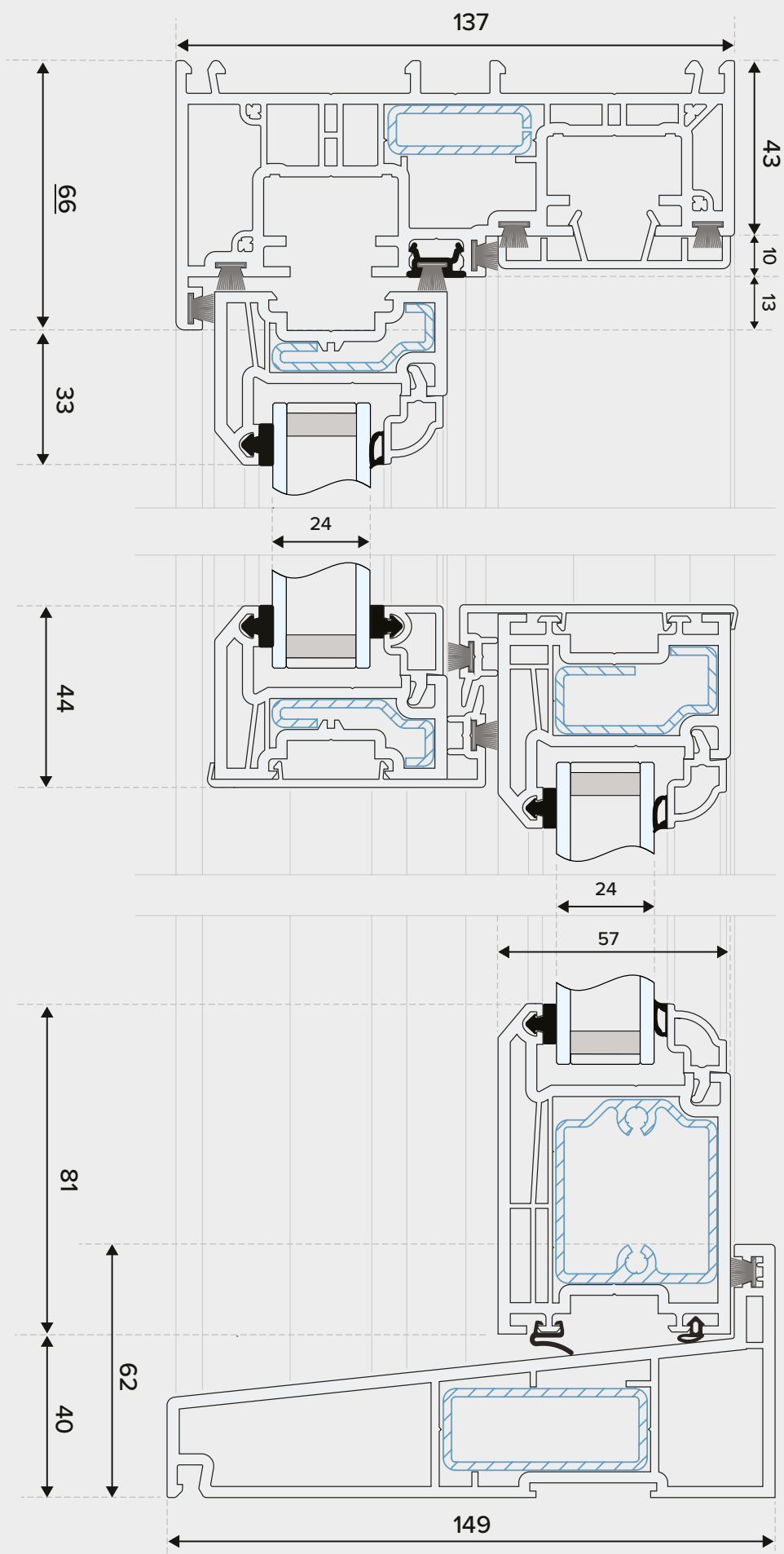


RAYA VERTICAL SLIDING SASH WINDOW

- 1** 28mm glazing
- 2** Georgian or astragal bars for an authentic appearance.
- 3** Triple brush seals in the frame create a barrier against wind and air
- 4** These windows can be fully welded or mechanical construction
- 5** Deep bottom rail profile as standard
- 6** Tilt function for cleaning (see p14)

SPECIFICATION	
Feature	Specification
Profile depth	137 mm
Maximum window size	1500 x 3000mm
Thermal performance	Exceeds 1.1 W/m2K
Max. sash weight	50kg
Glass width	28mm
Further options	Georgian bars
	Fixed or run through sash horns
	Sliding latches allowing for tilting

VERTICAL SLIDING SASH PROFILE DRAWING



TILT & TURN WINDOWS

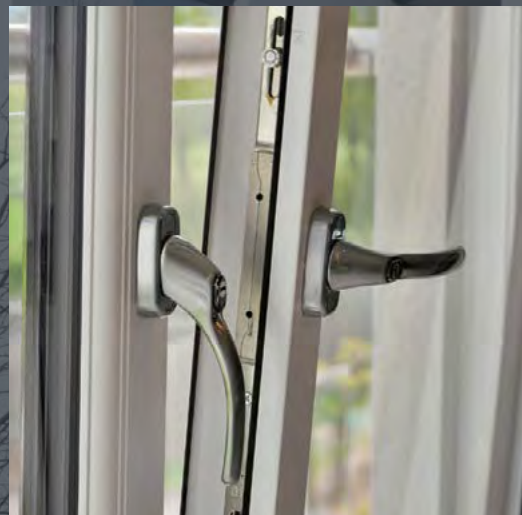
Contemporary style, versatile function

Tilt and Turn offers simplicity and versatility.

The ideal solution for restricted external space; this system allows you to tilt the top towards you, or open fully inward on side hung hinges.

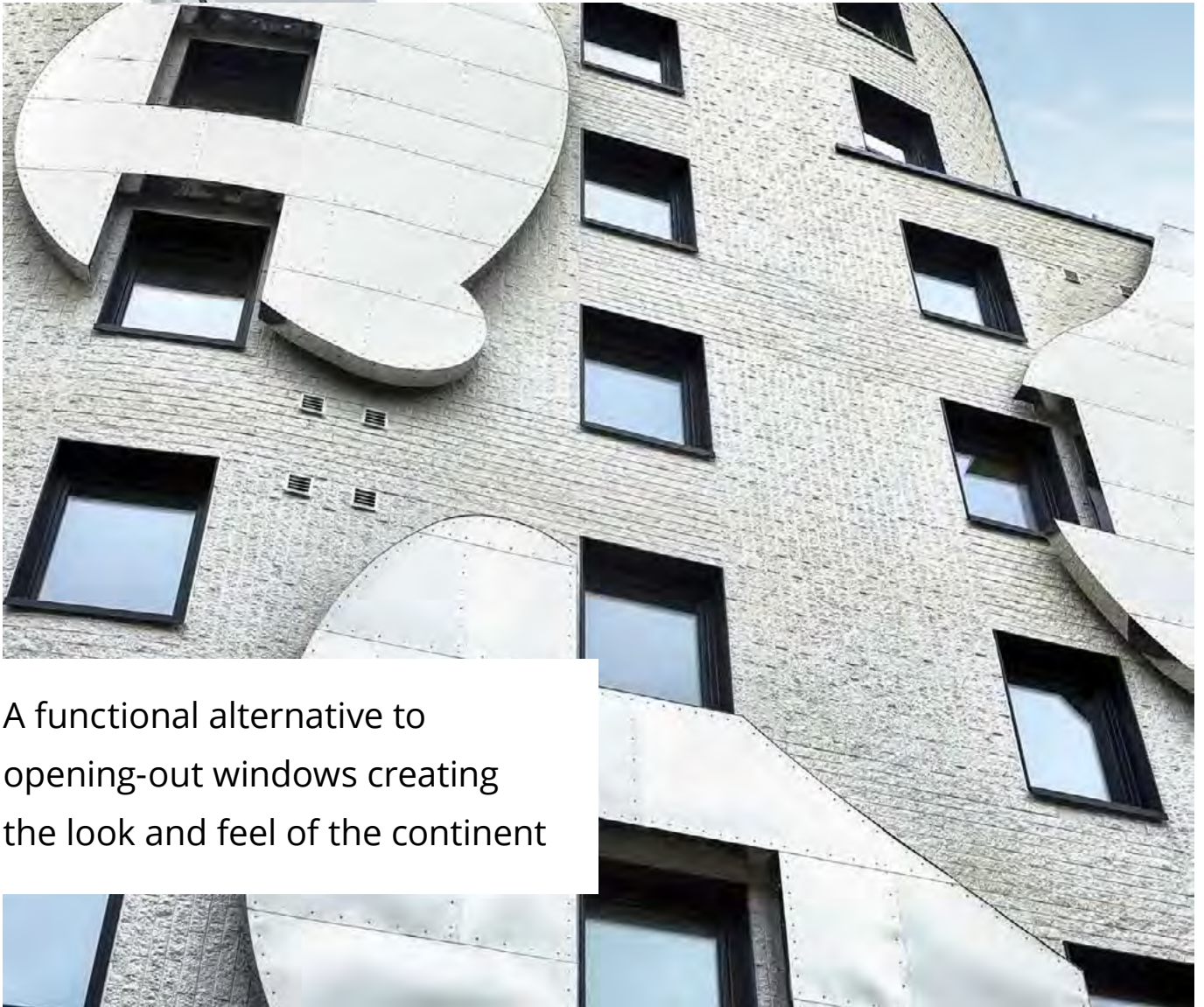
This flexibility provides secure ventilation and ease of cleaning from within.

This system also provides an effective fire escape.



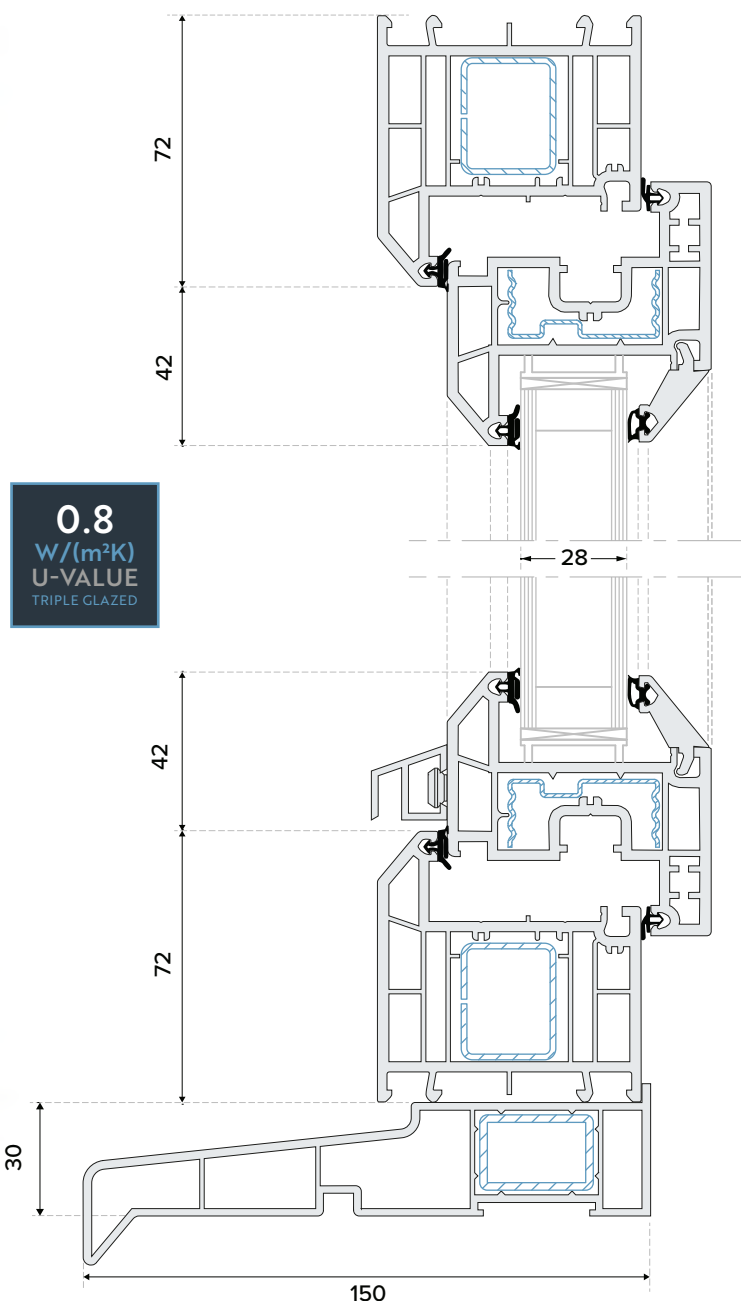
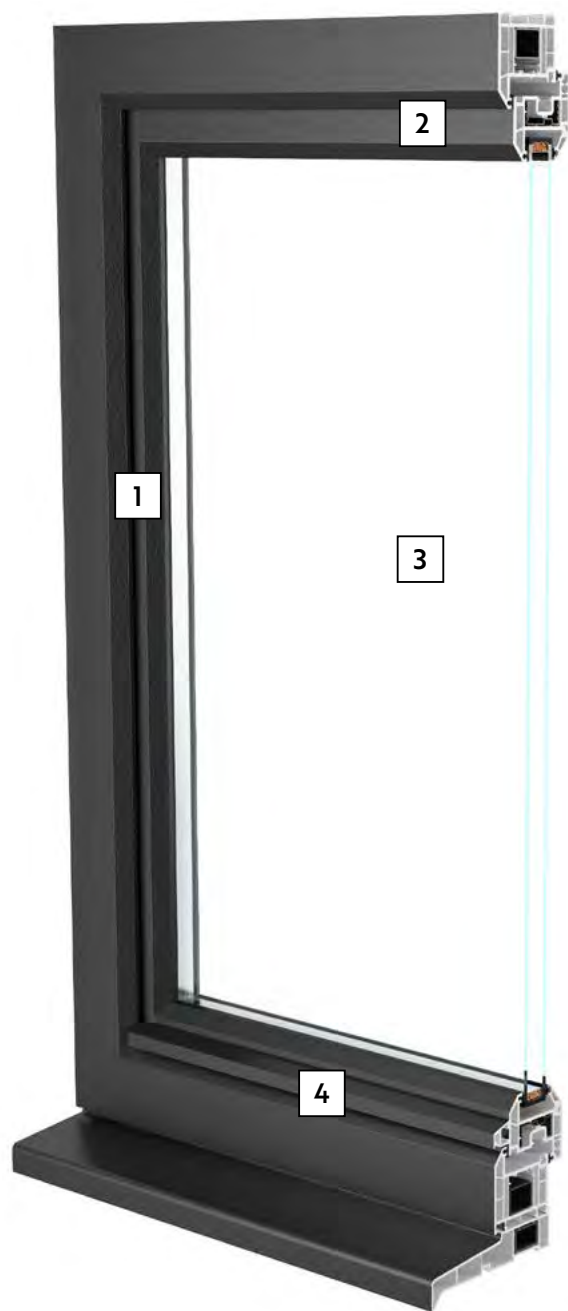
FEATURES

- Secure ventilation
- Easy cleaning
- Ideal for restricted space
- An effective fire escape
- Secure ventilation and ease of cleaning



A functional alternative to opening-out windows creating the look and feel of the continent

TILT & TURN CROSS SECTION & PROFILE DRAWING



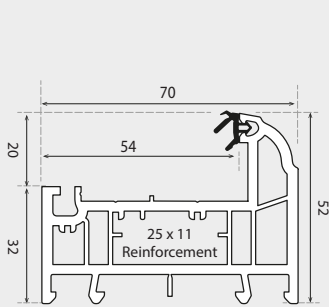
0.8
W/(m²K)
U-VALUE
TRIPLE GLAZED

RAYA TILT & TURN

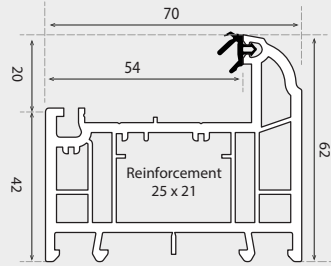
- 1** 16mm integrated Euro-groove allowing for hardware options
- 2** Can tilt for minor ventilation or turn and open to feel the full benefits
- 3** Inward opening for effective fire escape and where restricted outside space makes outward opening hazardous
- 4** Slimmer sight-lines for enhanced aesthetic appeal

SPECIFICATION	
Feature	Specification
Profile depth	70 mm
Maximum window size	1000 x 2200 mm (side hung)
Thermal performance	0.8 W/m²K
Max. sash weight	100kg
Glass width	Up to 44mm

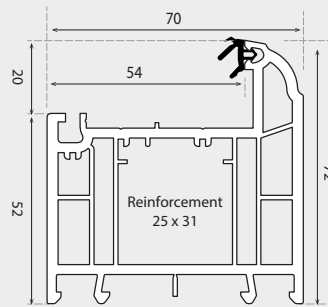
RAYA EDGE/SCULPTURED SUITE



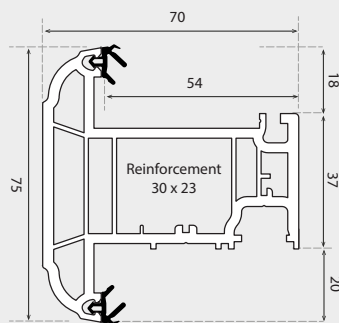
SLIM OUTERFRAME
52mm (5 CHAMBERS)



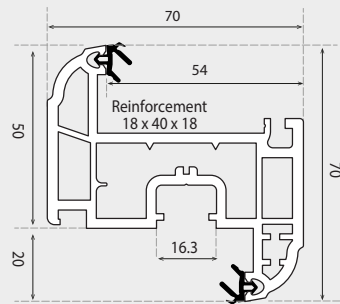
INTERMEDIATE OUTERFRAME
62mm (5 CHAMBERS)



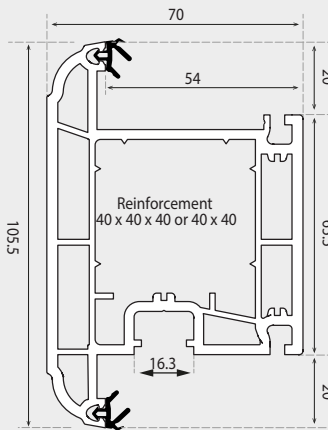
UNIVERSAL OUTERFRAME
72mm (5 CHAMBERS)



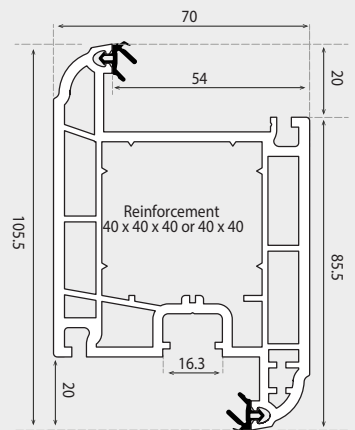
'T' SASH
75mm (5 CHAMBER)



TILT/TURN SASH
70mm

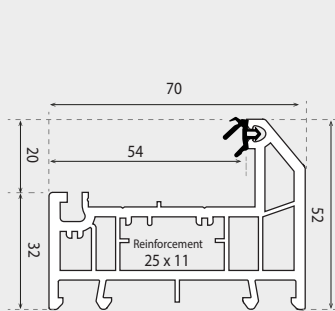


DOOR 'T' SASH
105.5mm

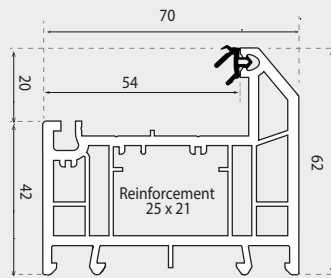


DOOR 'Z' SASH
105.5mm

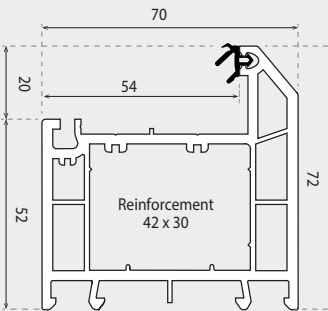
RAYA CHAMFERED/BEVELLED SUITE



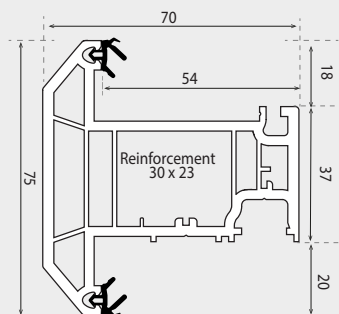
SLIM OUTERFRAME
52mm (5 CHAMBER)



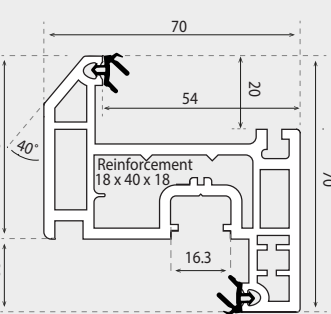
INTERMEDIATE OUTERFRAME
62mm (5 CHAMBER)



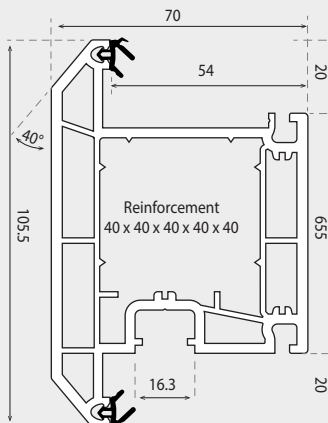
LARGE OUTERFRAME
72mm (3 CHAMBER)



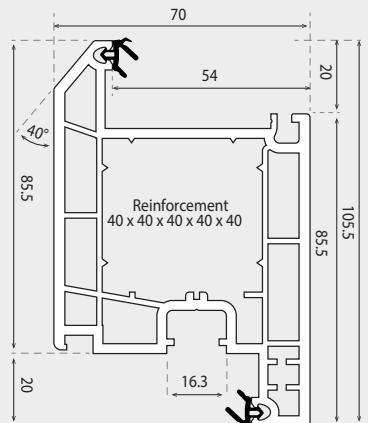
CASEMENT 'T' SASH
75mm (5 CHAMBER)



TILT/TURN SASH
70mm



DOOR 'T' SASH
105.5mm



DOOR 'Z' SASH
105.5mm

PLEASE NOTE: This is only a selection of the main profile drawings.

Please visit raya-windows.co.uk to view and/or download the complete technical profile data sheets.

RAYA SLIDING PATIO

Large glass surface for maximum natural light

Rehau's Slinova sliding door offers remarkable performance in a streamlined form, for modern and environmentally responsible housing.



FEATURES

- Welded frame
- Fully reinforced
- Pre-mounted seals on the sash
- Compatible with existing REHAU accessories (glazing beads, connector profiles) for lighter storage.

COLOURS

- A wide range of colours
- The possibility of different internal and external colours
- A fully veneered frame rebate.

AESTHETICS

- 82mm mullion, this patio door offers a very large glazed surface for maximum natural light.
- This exceptional finesse is obtained thanks to RAUFIPRO X, a composite material with guaranteed stability over time.



TECHNICAL AREA:

RAYA SLIDING PATIO DOOR

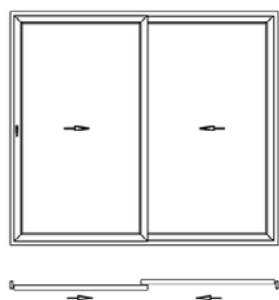
RAYA PATIO DOOR

Rehau Slinova uPVC sliding patio door

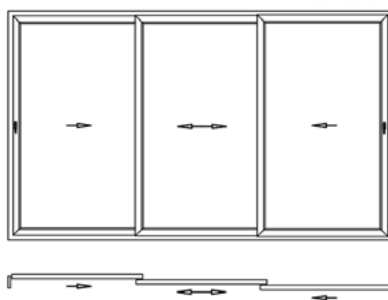
- 1 Veneered frame rebate
- 2 Thermal break in the frame rebate
- 3 RAUFIPRO X profiles, containing a minimum of 40% recycled uPVC material
- 4 80mm threshold or wide 173mm threshold (2 and 3 rails)



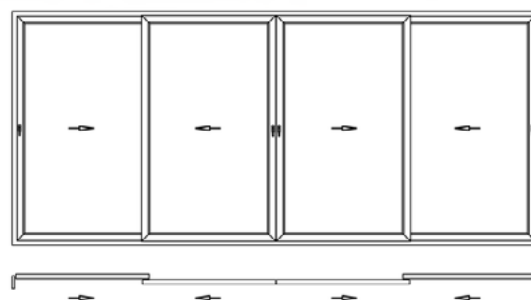
CONFIGURATIONS



2 leaves



3 leaves

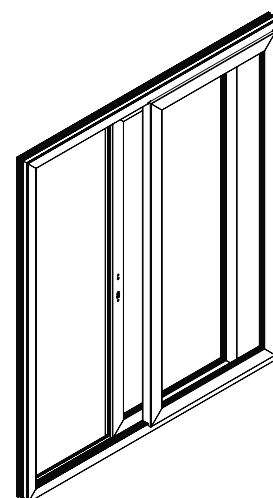


4 leaves

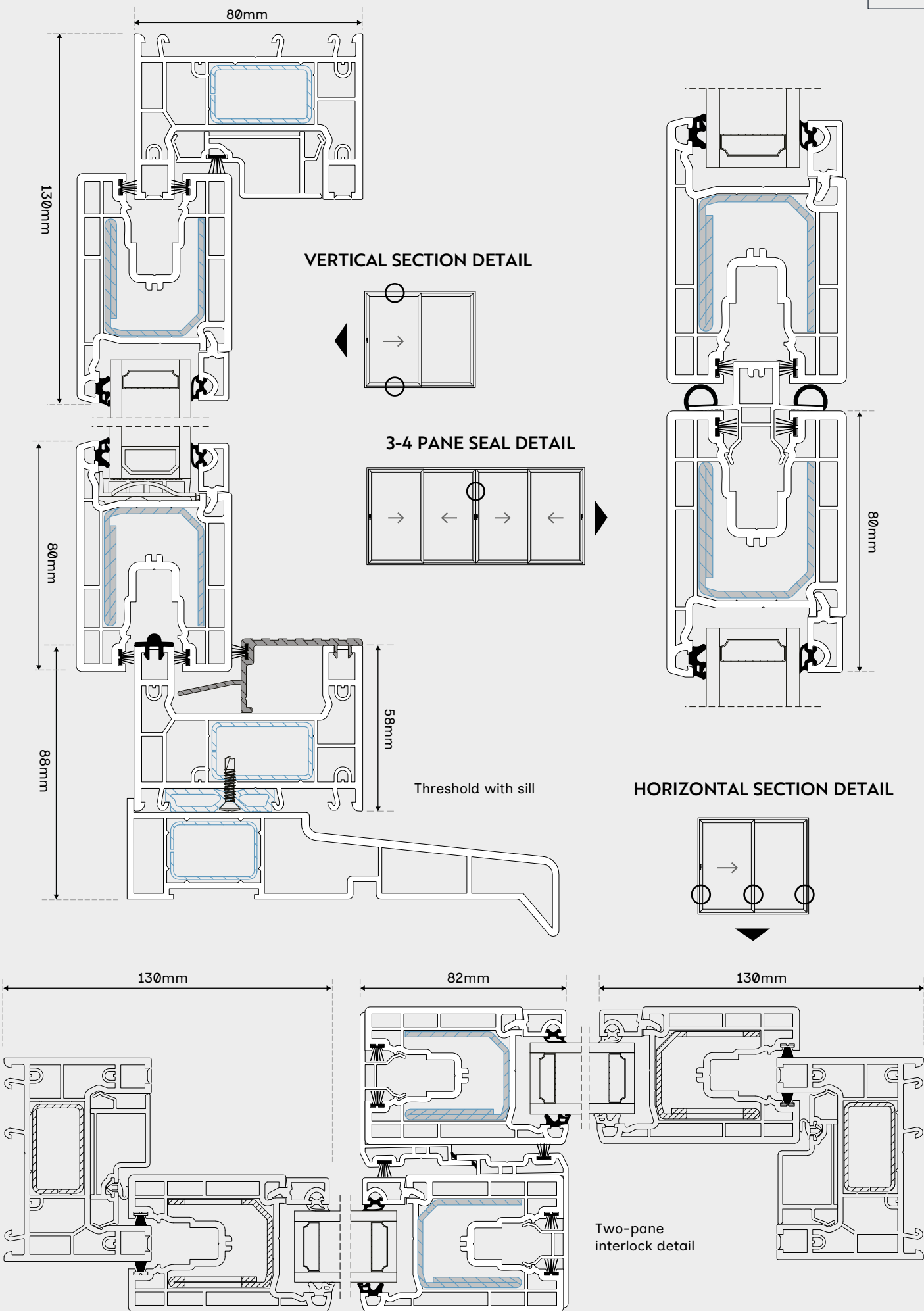
TECHNICAL SPECIFICATION

RAYA SLINOVA UPVC PATIO DOOR

FEATURE	DESCRIPTION
Frame depth	Double frame 80mm, Triple frame 146mm
Sash depth	54 mm
Visible profile	Width Frame + sash: from 121 mm to 144 mm
Assembly	Welded sash, welded frame or mechanically assembled
Material	REHAU EcoPlus uPVC profile, with steel reinforcement. Profile has a minimum of 40% to 75% recycled PVC, Vinyl Plus certification
Seal material	Two circumferential brush seals between window frame and sash. Sash glazing seal is welded in the corner area.
Maximum glass thickness	32 mm
Maximum sash weight	Up to 150 kg
Maximum dimensions	4 m x 2.4 m (w x h)
U Value	1.8 W/(m²K)
Wind load	Class B3 in accordance with BS EN 12210
Water Resistance	Class 6A in accordance with BS EN 12207
Operating Forces	Class 1 in accordance with BS EN 12217
Air permeability	Class 3 in accordance with BS EN 12207
Sound reduction	Up to $R_{w,P} = 33$ dB
Repeated Opening and Closing	Class 50,000 Cycles in accordance with BS 6375-1 Clause 6.5



SLIDING DOOR PROFILE DRAWINGS



TECHNICAL: PATIO

RAYA entrance doors meet all requirements of new builds and refurbishment projects which makes them an easy choice for a range of applications

Available in a choice of chamfered (bevel) or sculptured (edge). A full range of ancillary profiles completes any installation.

ENTRANCE DOORS

Secure doors to match your windows

FEATURES

- Open-in and open-out styles available for a variety of installations
- Can accommodate most standard locking mechanisms including high security bolt systems, flag and butt hinges
- Pre-routed reinforcement on locking side ensures continuous reinforcement
- Choice of chamfered or sculptured profiles available

ENTRANCE DOORS SPECIFICATION

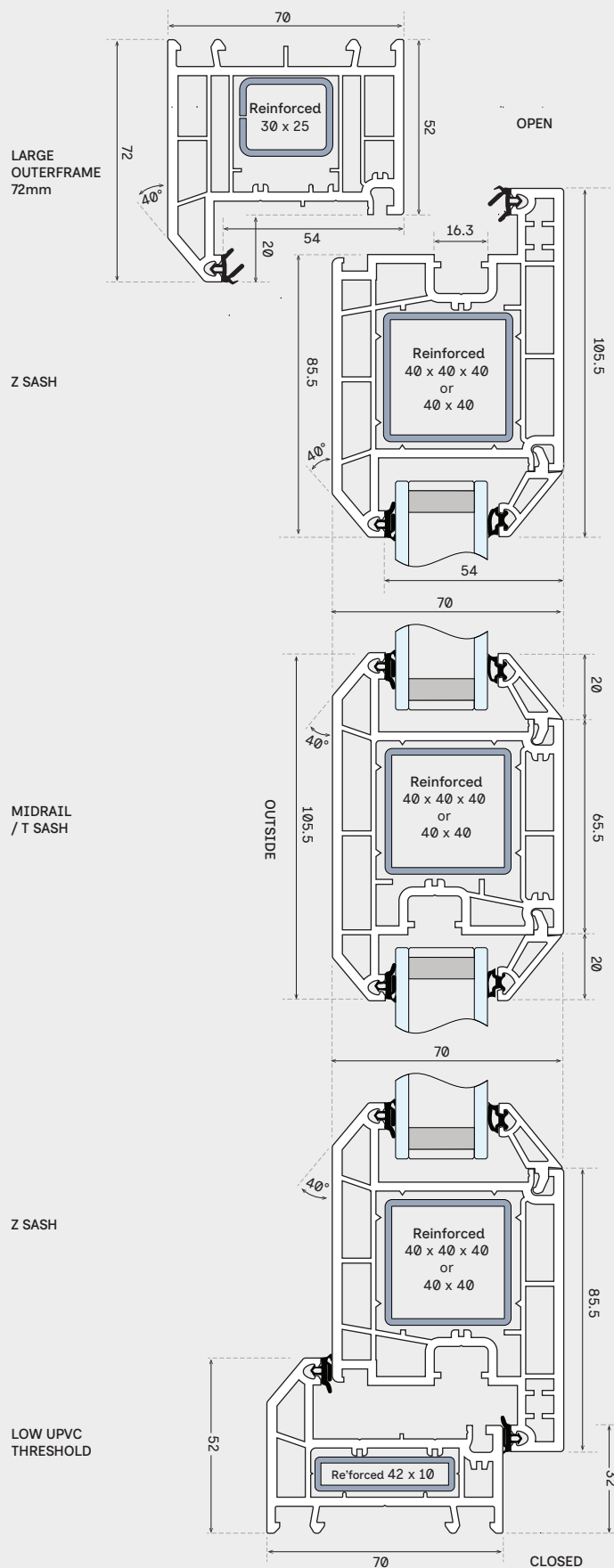
Feature	Specification
Profile depth	70mm
Maximum door size	1000mm x 2200mm (single door) 1900mm x 2200mm (French doors)
Thermal performance	Exceeds 1.0 W/m ² K
Maximum sash weight	100kg
Glass width	4mm – 44mm
Further options	Low threshold options for Part M compliance





FRAME & THRESHOLD

We use 72mm outerframes for all doors (*bevel* or *edge*). Choose to keep the 72mm outerframe as the threshold or opt for a low threshold made from uPVC or aluminium

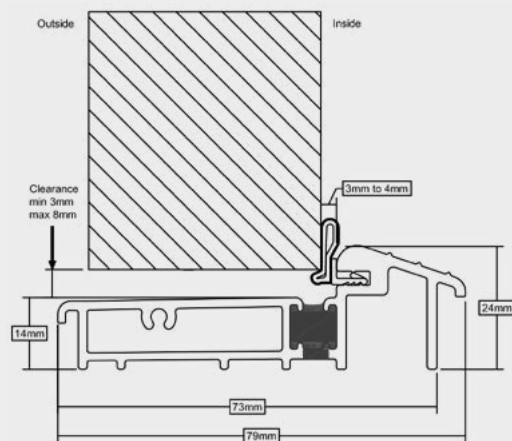


NOT TO SCALE. Dimensions: millimetres (mm).

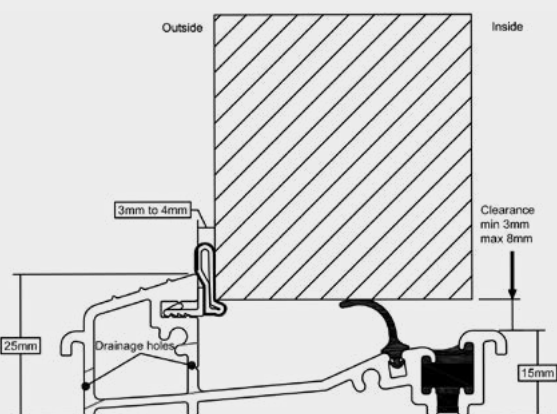
All door profiles are 70mm front-to-back. All door sash profiles are 70mm x 105.5mm. Dimensions are identical between bevel and edge profiles (only bevel shown)

LOW THRESHOLD OPTIONS 70MM • ALUMINIUM

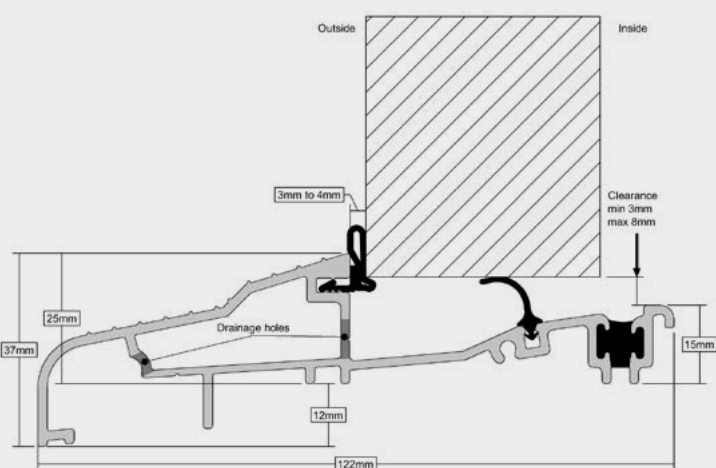
OPEN OUT



OPEN IN a



OPEN IN b



SUPERIOR DOOR SECURITY

High quality, high security

Iceni utilise Kenrick locking system to maintain high-security in all RAYA uPVC doors.

HINGES

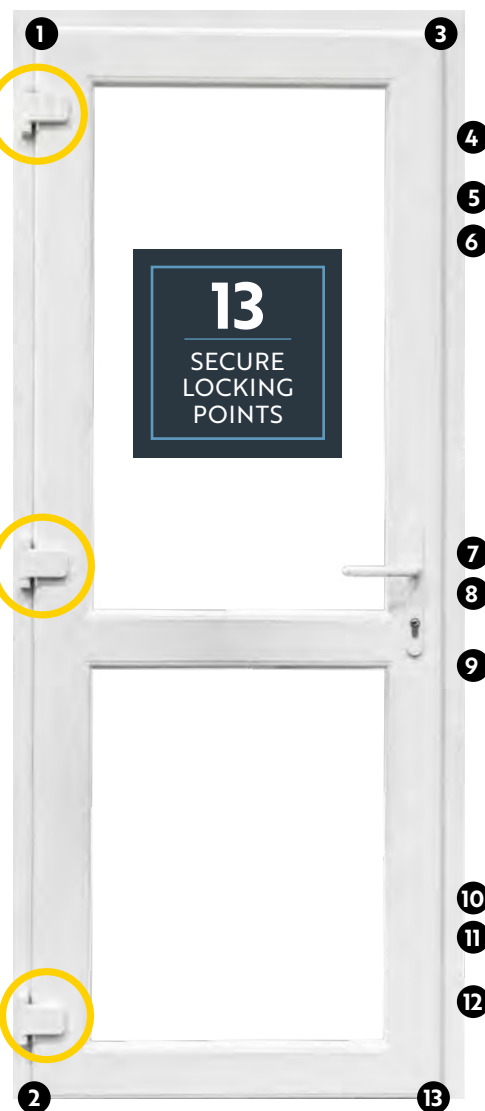
Three fully-adjustable
Pro-secure hinges



HINGEBOLTS

A metal wedge at either end of
the door fits snugly into the frame
locating the door accurately.

Optional security feature.



ENGINEERED FOR PEACE OF MIND

The Centurion completes our finished product ensuring every engagement is a satisfying operation



- Secured by Design police initiative available to specify

3

4

5

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13

ROLLERCAMs

Slide into the 'keep' locking the door into position

DEADBOLTS

Enhances lateral protection

ELEMENT RESISTANT

All locking parts are salt spray tested to british standard

LATCH

Standard operating door latch

HOOKBOLTS

3 hooks into the frame

SHOOTBOLTS

Anchors top and bottom of the door into metal keeps in the frame.

Optional security feature on single doors.

Shootbolt keep shown is from a French door frame

COLOURS

Find your finish

COLOURS



ELEPHANT GREY



CLOTTED CREAM



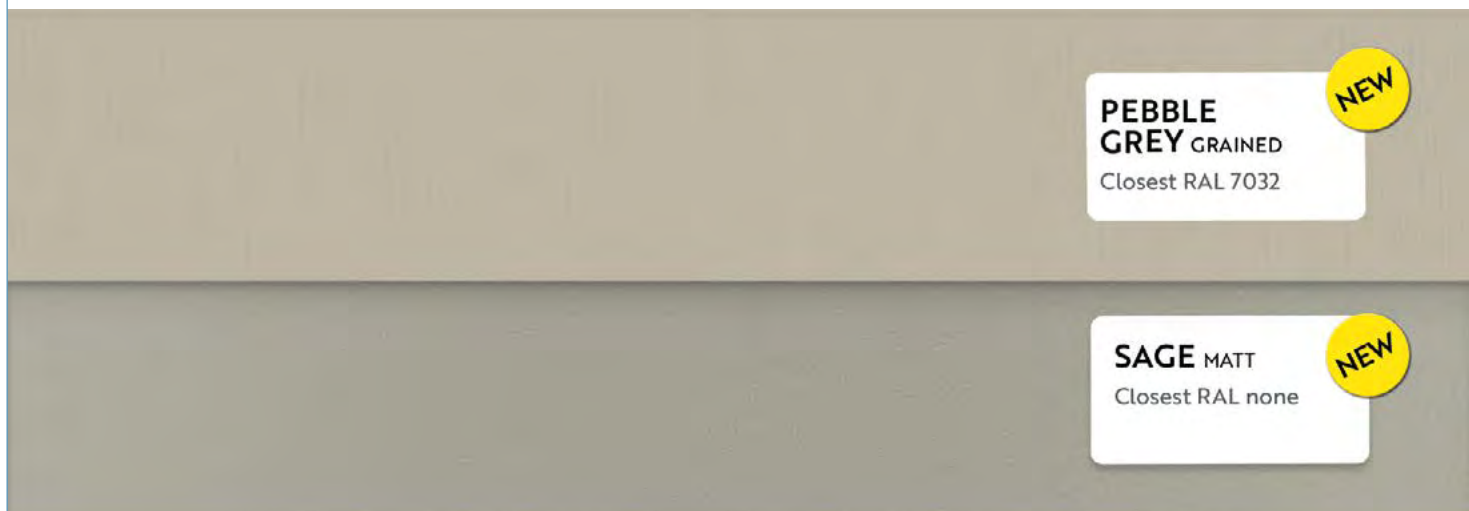
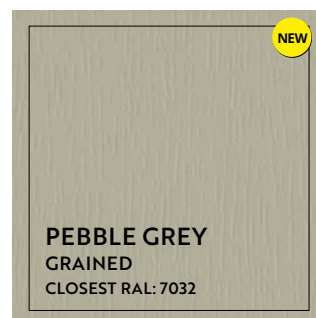
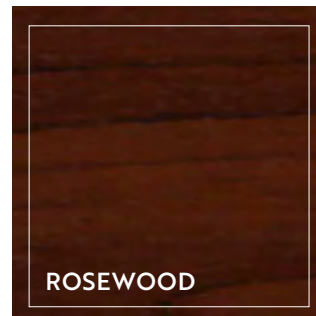
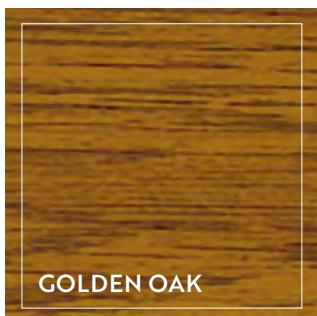
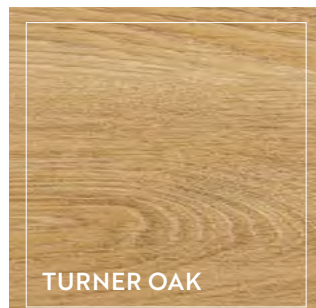
WHITE



ANTHRACITE GREY



TURNER OAK



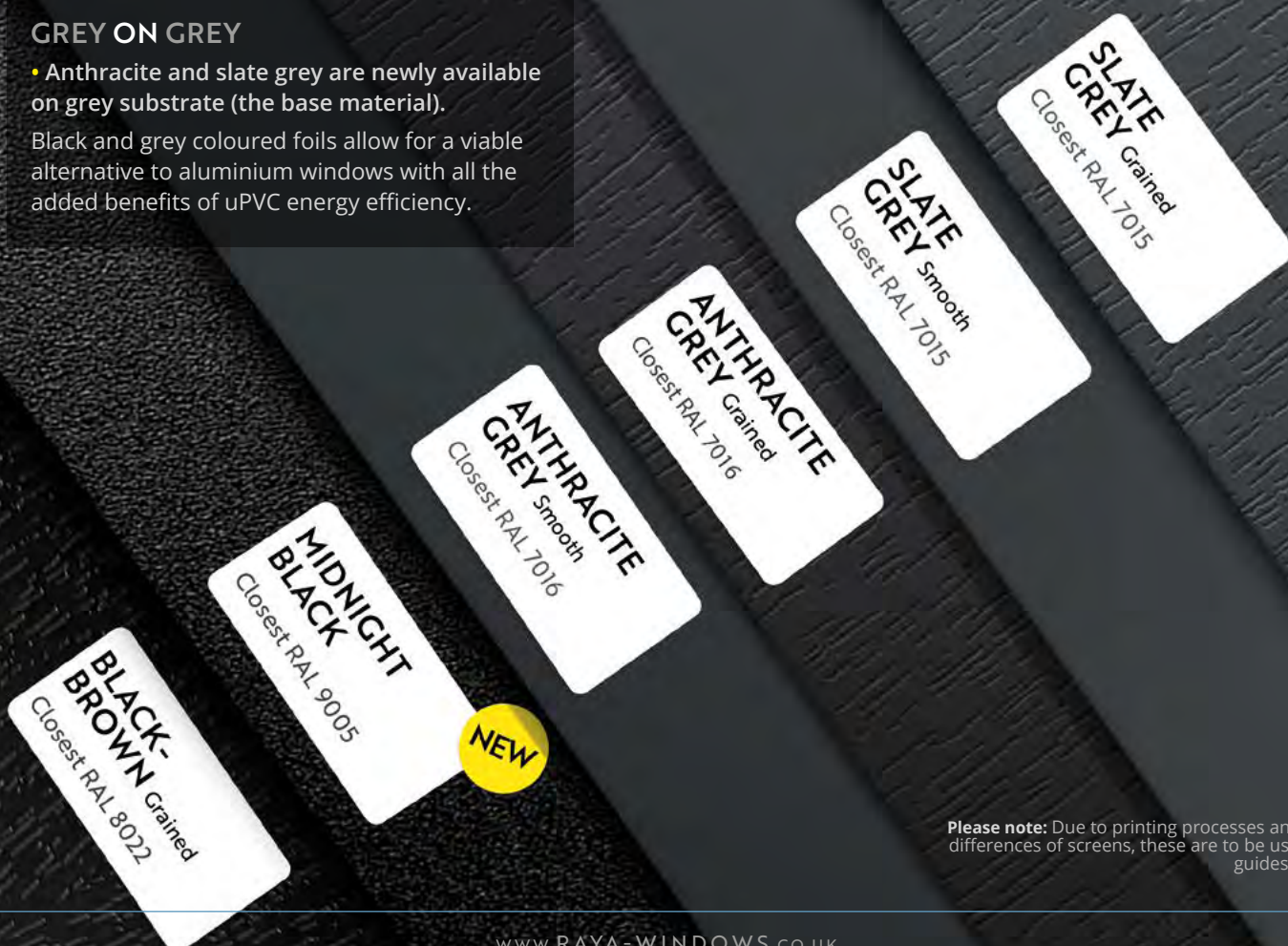
BLACK & GREY

Get aluminium looks with upvc benefits

GREY ON GREY

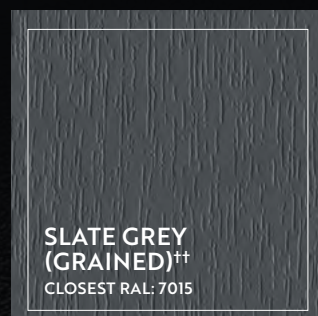
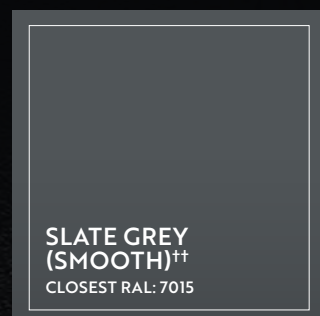
- Anthracite and slate grey are newly available on grey substrate (the base material).

Black and grey coloured foils allow for a viable alternative to aluminium windows with all the added benefits of uPVC energy efficiency.

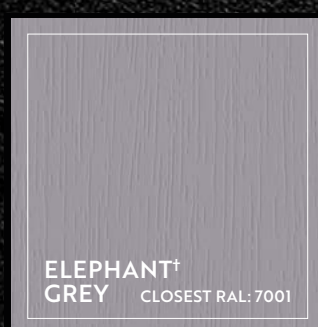


Please note: Due to printing processes and the differences of screens, these are to be used as guides only.

*Only available on white **Available on grey



AVAILABLE ON GREY BASE PROFILE 



AVAILABLE WITH
MATCHING OR
WHITE INTERNALLY



 THIS
BACKGROUND IS
MIDNIGHT BLACK
TEXTURE



**MIDNIGHT
BLACK**

The newest colour in our black and grey suite,
midnight black, has an even matt texture for a subdued
alternative to *black-brown's* grained surface

STANDARD HANDLES

CHR Colour available **Chr** Unavailable **CHR** Pictured colour



AG



Window Handle

AG AB BLA BRZ **CHR** FB
GLD GRA Pew SAT SS WHI



Architectural Window Handle

AG AB BLA BRZ **CHR** FB
GLD GRA PEW SAT SS WHI



SCAN TO
VIEW THE
ONLINE
HARDWARE
GUIDE



Pear Drop Window Handle

AG **AB** Bla Brz **CHR** FB
GLD **GRA** Pew Sat SS Whi



Monkey Tail Window Handle

AG **AB** Bla Brz **CHR** FB
GLD **GRA** Pew Sat SS Whi



Tilt & Turn Window Handle

AG **AB** BLA BRZ **CHR** FB
GLD Gra Pew SAT SS WHI



Pembroke Patio Door Handle (standard)

AG **AB** Bla BRZ **CHR** FB
GLD **GRA** Pew SAT SS WHI

CHR



DOOR HANDLES

EG Colour available Eg Unavailable

EG Pictured colour

SCAN TO VIEW THE ONLINE HARDWARE GUIDE



Balmoral Lever/Lever Handle

AG	AB	BLA	BRZ	CHR	FB
GLD	GRA	Pew	SAT	SS	WHI



Balmoral Lever/Pad Handle

AG	AB	BLA	BRZ	CHR	FB
GLD	GRA	Pew	SAT	SS	WHI



Balmoral Swan Lever Handle

AG	AB	BLA	BRZ	CHR	FB
GLD	GRA	Pew	Sat	SS	WHI



Balmoral DDA Lever Handle

AG	AB	BLA	BRZ	CHR	FB
GLD	GRA	PEW	SAT	SS	WHI



Heritage Lever Handle

AG	AB	Bla	Brz	CHR	FB
GLD	GRA	PEW	Sat	SS	Whi



Architectural Lever Handle

AG	AB	Bla	BRZ	CHR	FB
GLD	GRA	Pew	Sat	SS	Whi



Regal Lever Handle

AG	AB	Bla	Brz	Chr	FB
Gld	Gra	PEW	Sat	SS	Whi



Monkey Tail Lever Handle

AG	AB	Bla	Brz	Chr	FB
Gld	Gra	PEW	Sat	SS	Whi



Noble Lever Handle

AG	AB	Bla	Brz	Chr	FB
Gld	Gra	PEW	Sat	SS	Whi



Straight Bar Pull Handles
400mm 800mm 1200mm 1600mm 1800mm

AG	AB	Bla	Brz	Chr	FB
Gld	Gra	Pew	Sat	SS	Whi



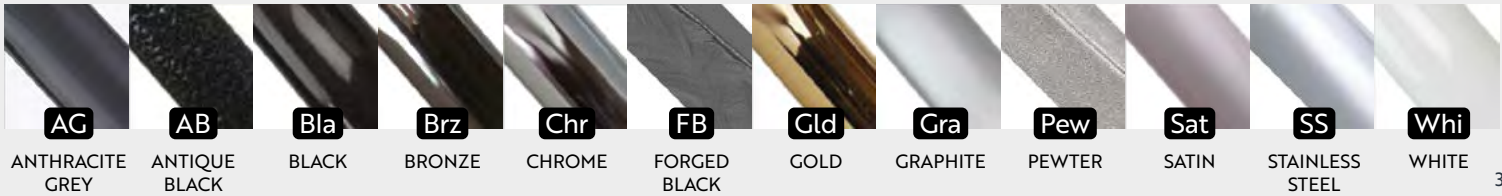
Swept bar handle
400mm/ 800mm

AG	AB	Bla	Brz	Chr	FB
Gld	Gra	Pew	Sat	SS	Whi



Balmoral Blanking plate

AG	AB	BLA	BRZ	CHR	FB
GLD	GRA	Pew	SAT	SS	WHI



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