



MADE IN  
BRITAIN



**SHEERLINE**<sup>®</sup>  
ALUMINIUM WINDOWS AND DOORS

Reinventing aluminium  
window and door systems

*#aluminiumbutnotasyouknowit*





# History & Background

- Garnalex was founded in 2018
- Privately owned and financed by Roger Hartshorn
- An experienced team with 40+ years expertise and knowledge of the Fenestration Industry
- Sheerline product range launched in March 2020





# Our mission

To reinvent aluminium windows and doors and solve many of the issues and frustrations experienced by aluminium installers.

Improve service levels and reduce the reliance on imported aluminium systems and products. Currently 190,000 tonnes of extruded aluminium is consumed in the UK, but only 110,000 tonnes are made here.



# Investment

Invested over £9m in a state-of-the-art factory. Ensures quality is built into our very foundations. At the heart of our production facility sits our 170-tonne aluminium press (the same weight as a fully-grown blue whale).

The SMS HYBREX delivers up to 4 tonnes of extruded profile an hour, using the latest energy efficient servomotor technology to replace many hydraulic functions, for improved efficiency, precision and speed of operation with energy savings of up to 55%



# Proudly designed and manufactured in the UK



From design and testing, to the manufacture of every major component at state-of-the-art facilities, Sheerline are passionate about each element that goes into producing the Sheerline systems.

- Over £15million investment
- Own logistics fleet
- Full traceability of every profile – back to the UK sourced aluminium log it came from



75%

75% of the aluminium produced is still in use, thanks to its durability and highly efficient recycling processes.

# Sustainability

Made from the most recycled and abundant metal in the Earth's crust and produced in the most energy efficient aluminium window facility in the UK, all Sheerline products are manufactured in the most sustainable way possible, reducing our products carbon footprint.

A state-of-the-art, energy efficient SMS HYBREX press delivers energy savings of up to 55% compared to traditional presses



# Product Range Overview



# Sheerline Product Range:

*Classic*



*Prestige*



*Classic*  
and  
*Prestige*

SHARED FEATURES

# Patented corner construction

Our unique patented construction method using threaded screws to bind corners tightly together in perfect unison drastically cutting down on remedial site issues.

Corners can be individually hand-tuned to ensure a perfect finish. Large frames can even be constructed on site if required.





# 4 Style options

'Stepped' inspired by traditional steel windows  
'Contemporary' with a more modern minimalist aesthetic.



*Stepped Flush*

*Stepped*

*Contemporary Flush*

*Contemporary*

Both styles are available in either our standard outer frames, or as a 'Flush' option that brings both the perimeter and the opening sash perfectly in-line with each other.

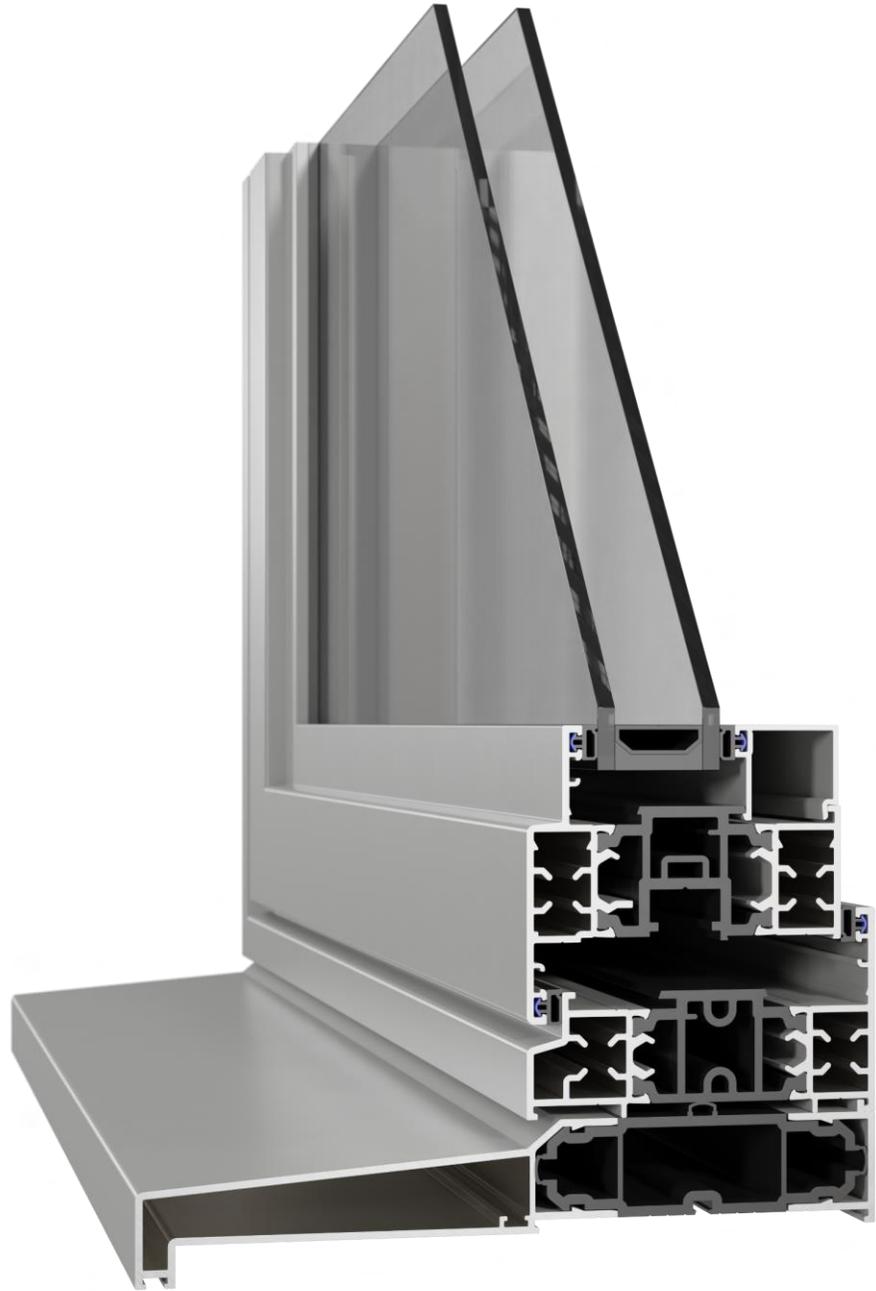
*Classic*

*Prestige*

59mm

88mm

Comparison



# Thermlock<sup>®</sup> technology

Closed-cell, insulating chambers act as a thermal break and creates class leading thermal performance, far superior to traditional polyamide thermal breaks.

Sheerline's cills also feature this same technology coupled with innovative in-built weather sealing that keep draughts and rain safely outside.

Thermlock is almost half as thermally conductive as Polyamide, Thermlock 0.17W/mK, Polyamide – 0.30 W/mK

*Classic*

**1.4 U-value**

W/(m<sup>2</sup>K)

Double glazed

Thermal transmittance, also known as a U-value, measures the rate of transfer of heat. The better-insulated a window is, the lower the U-value will be.

*Prestige*

**1.3 U-value**

W/(m<sup>2</sup>K)

Double glazed

The better-insulated a window is, the lower the U-value will be.

**0.9 U-value**

W/(m<sup>2</sup>K)

Triple glazed

Triple glazing can also provide exceptional acoustic dampening to block out unwanted noise.

## TRADITIONAL COLOURS



## CHARACTER PREMIUM COLOURS



## PARAGON ANODISED FINISH



# 12 Colour range

Classic and Prestige are available in nine powder coated colours.

A further three anodised finishes are available for the ultimate durable and stylish finish.

- All from stock



*Please note; due to the nature of the manufacturing process and the differences in the methods used to represent these colours in print we cannot guarantee an exact colour match with the colours shown. The RAL colour references are also provided as a guide only.*



**Anthracite  
Grey**  
7016  
Matt

**Agate Grey**  
RAL 7038  
Matt

## Dual colours

Dual colours in any combination of the 12 stocked colours are available on the **same lead-times** as single coloured profile.

## Bespoke colours

Bespoke RAL colours available in Matt, Satin, Gloss or Textured finishes on very **short lead-times**.

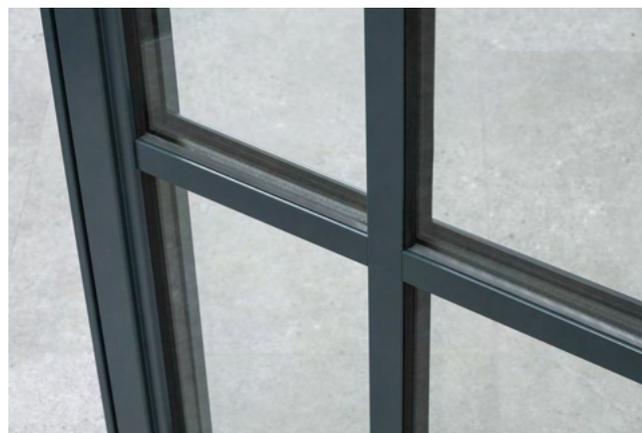


# Georgian bars

Sheerline offers 3 different Georgian bar options

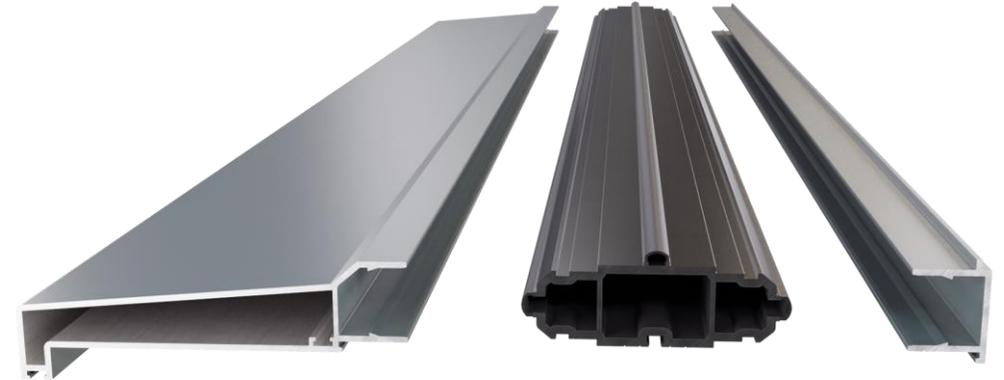
- 25 and 40mm flat bars
- 40mm stepped bar *Classic only*

Bespoke clip system ensures a secure fit that looks authentic. Internal spacer bars within the sealed unit completes the look.



# Clip-together high performance cills and ancillaries

- Co-extruded weather-seals on cills and other ancillaries:
  - minimal need for silicone sealing
  - saving time & money
  - creating more consistent, reliable and weatherproof installations
- Made from high performance Thermlock<sup>®</sup> material, bay posts won't create cold spots that can lead to condensation issues.
- A 45mm coupler creates an ideal way to add a dedicated night vent, without requiring unnecessary routing.
- 90°, 135°, 150° and variable (100 – 170°) bays and corner posts





# *Classic*

**ULTRA SECURE, ULTRA SLIM  
BEADLESS ALUMINIUM WINDOWS**  
BUILT WITHOUT COMPROMISE



**SHEERLINE**<sup>®</sup>  
ALUMINIUM WINDOWS AND DOORS



# *Classic*

*Ultra-slim, ultra-secure beadless  
aluminium windows that are  
fast to install, with beautiful  
corners*

# Classic

A truly innovative slim aluminium window ideal for modern extensions or steel window replacement

- Patented corner method allows **beadless** construction – creating a slim window without compromises
- *Unique Thermlock® thermal break gives class leading thermal performance*
- *Unbeatable security due to the beadless design*
- *Casement and French windows*



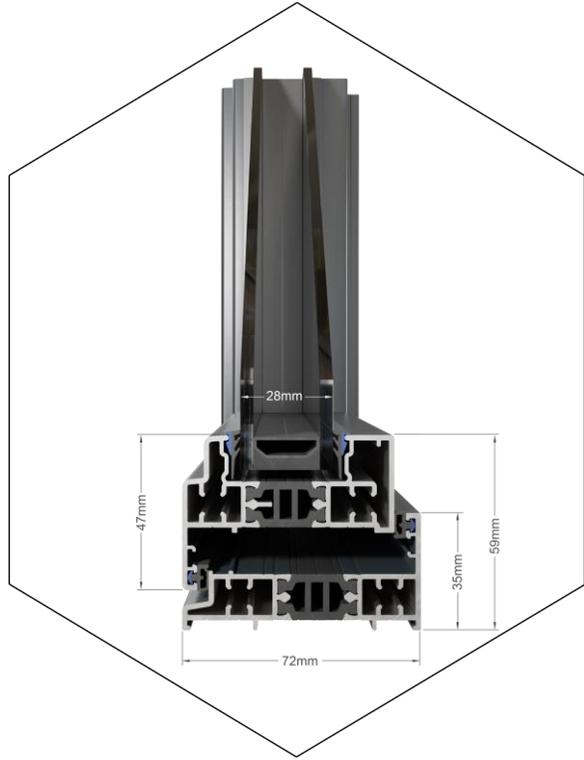
Secured by Design



Official Police Security Initiative



# Classic



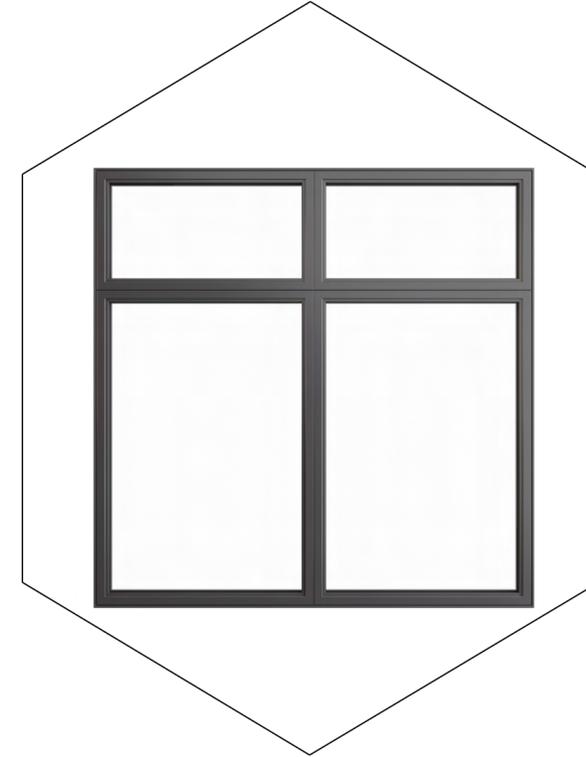
Ultra slim 59mm sightlines  
Standard outer frame 64mm wide  
Flush outer frame 72mm wide



Run through mitres on  
internal joints, eliminate  
unsightly junctions of square  
cut beads.



Extended outer frame  
option adds versatility,  
suits deeper plaster  
lines.



Classic uses dummy sashes to  
create perfectly  
equal sightlines

*With a concealed de-glazing method*



# Aesthetics

Classic creates, slim attractive windows suitable for a variety of modern and traditional buildings.





*Toe and heel device*

# Classic

## Faster to install

- Comes to site pre-glazed
- Sashes are an easy one man install\*,
- Beadless design prevents scratches caused during beading.
- Pre-glazed sashes eliminates mismeasured glass
- Safer glass handling on-site.
- In-built toe and heel device, for quick and easy adjustment

*\*Subject to manual handling limits*



# *Prestige*

**STYLISH, WARM ALUMINIUM WINDOWS  
AND DOORS BUILT ON INNOVATION**



**SHEERLINE**<sup>®</sup>  
ALUMINIUM WINDOWS AND DOORS



# *Prestige*

*Stylish, warm aluminium windows and doors built on innovation.*

*Our most versatile system, with the widest range of options and styles*

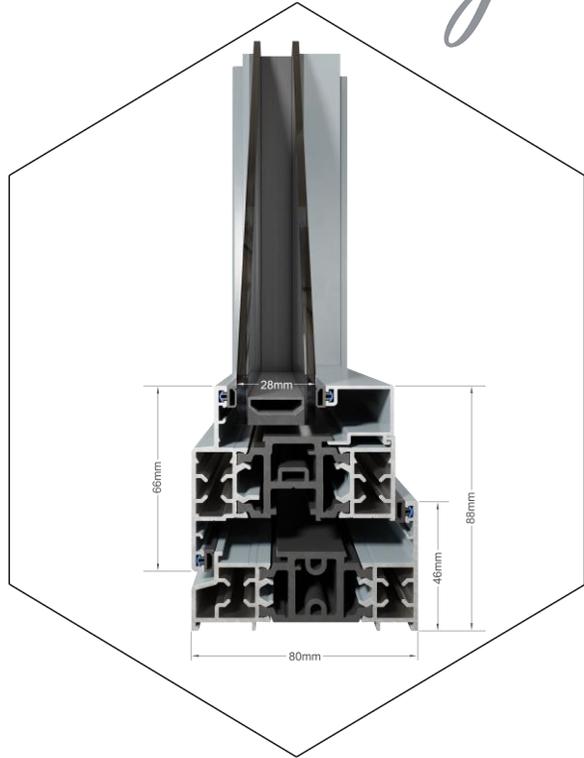


# Prestige



- A choice of 3 outer frames enables Prestige to accommodate a wide variety of installation situations
- Full depth Eurogroove for a wide choice of hardware
- *Unique Thermlock® thermal break gives class leading thermal performance, with U-values as low as 0.9U*
- *12 stocked colours – available on short leadtimes*
- *Casement, Fixed, French and Tilt and Turn windows*
- *Single and French doors*

# Prestige



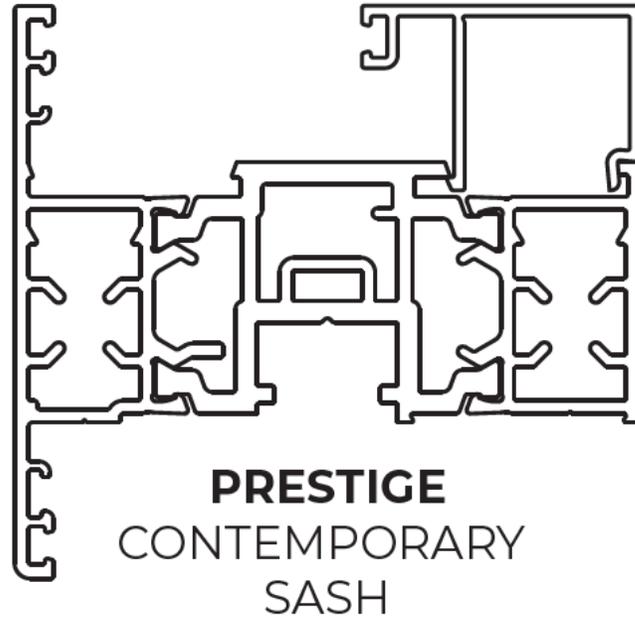
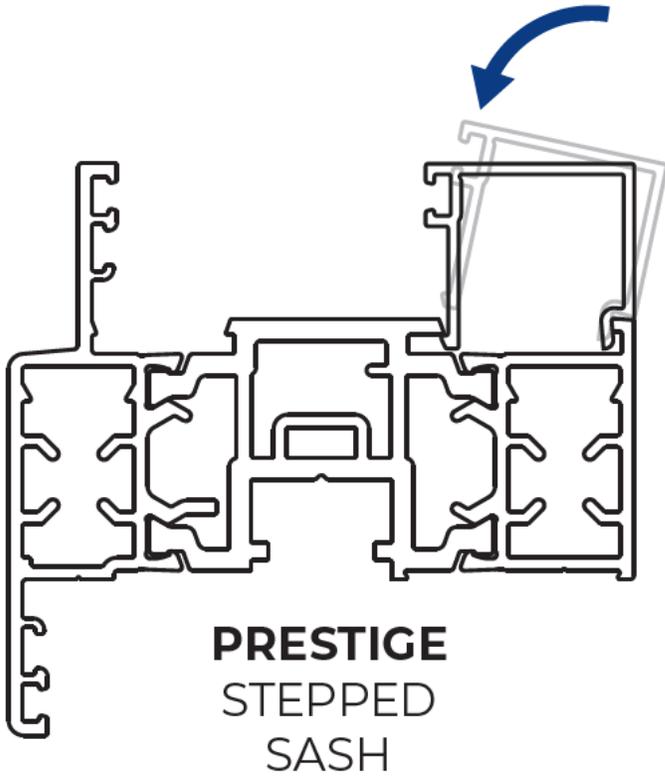
Slim 88mm sightlines for slim  
outer frame, with two other outer  
frame options  
Standard outer frame 72mm wide  
Flush outer frame 80mm wide

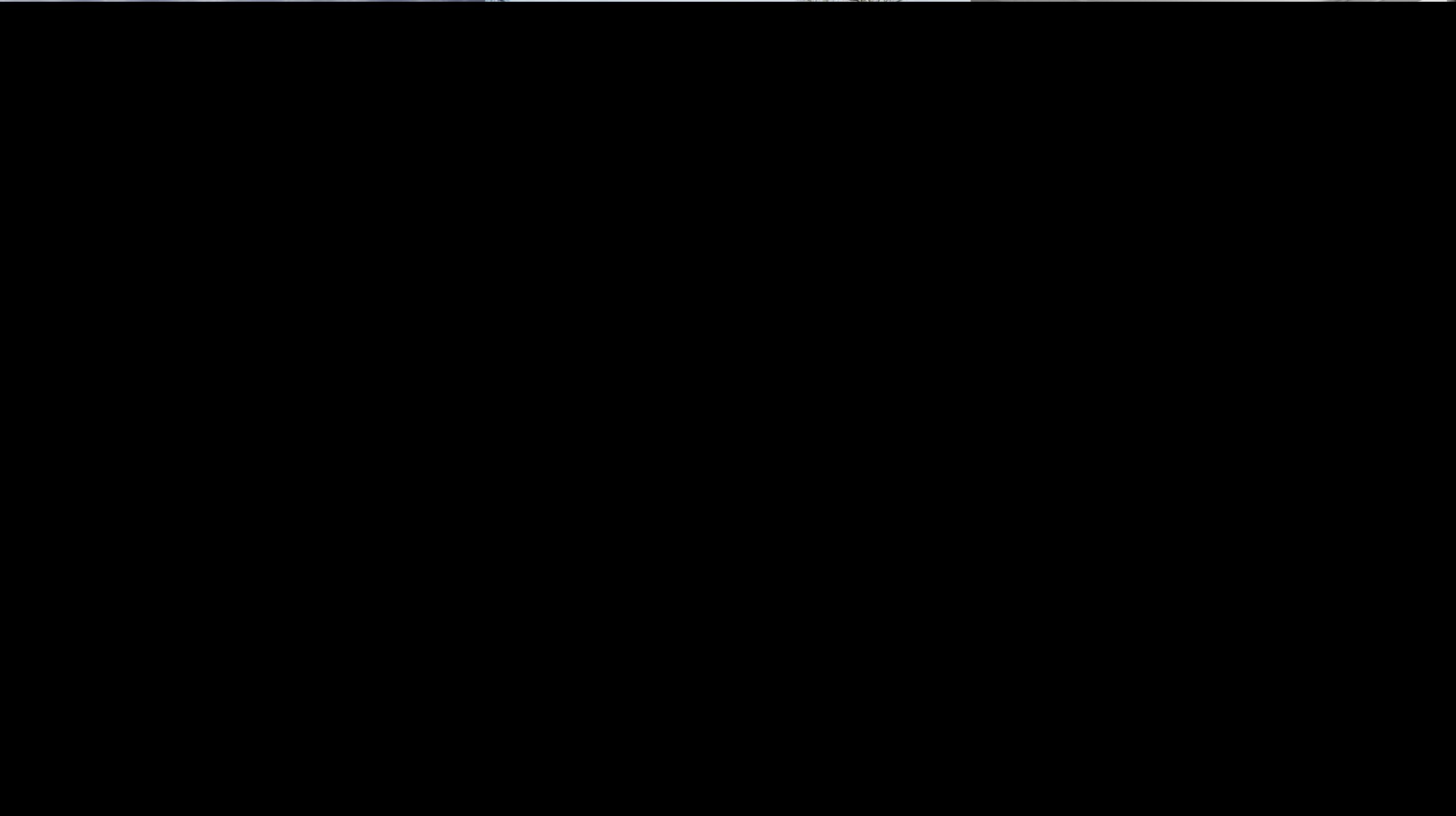
Both window & door lock  
cases are fully enclosed &  
don't break through into the  
glazing, or beading area

Single and  
French doors perfectly  
match Prestige and  
Classic windows

3 Part M compliant door  
thresholds. Frames easily fix  
to thresholds using universal  
moulding that's hidden from  
view

# *Prestige* CLIP IN BEAD:

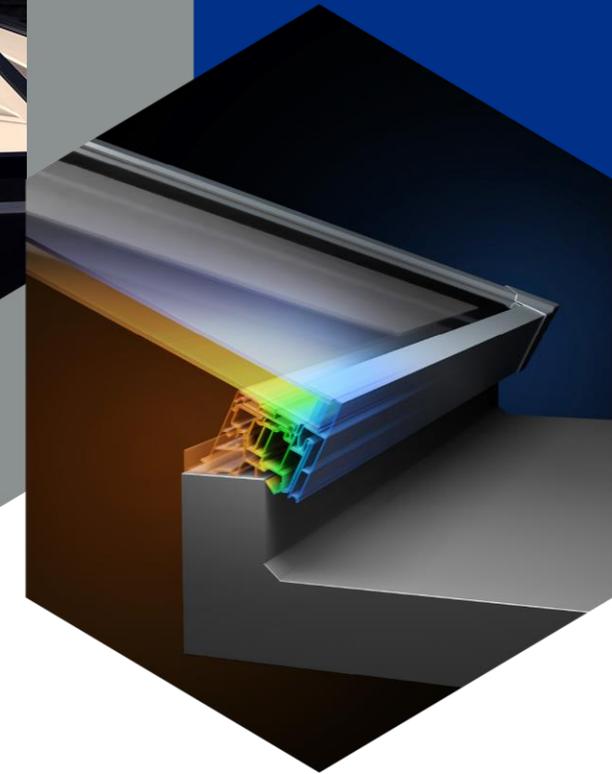






# The next generation Aluminium Roof Lantern

secure | sustainable | stylish

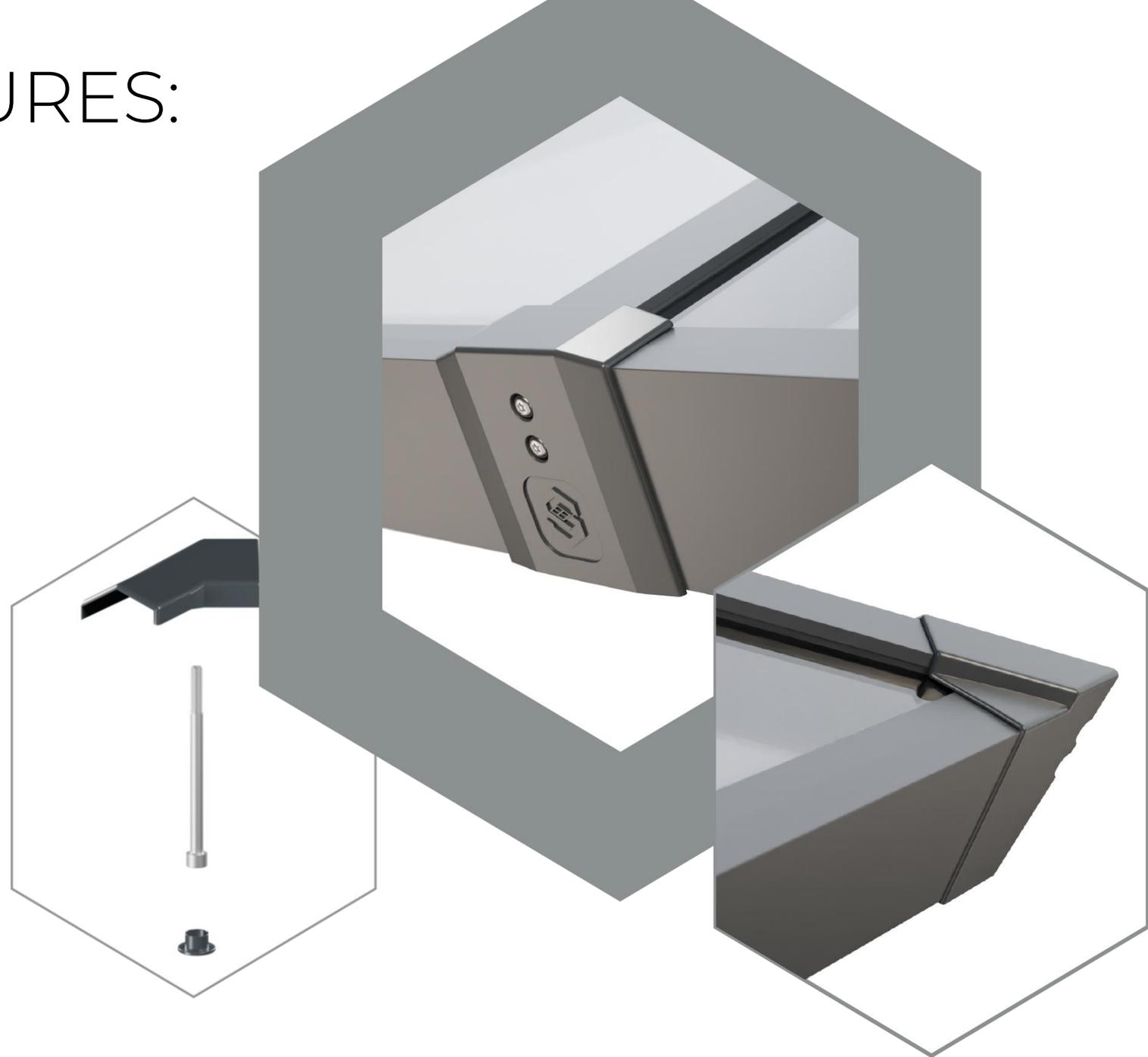






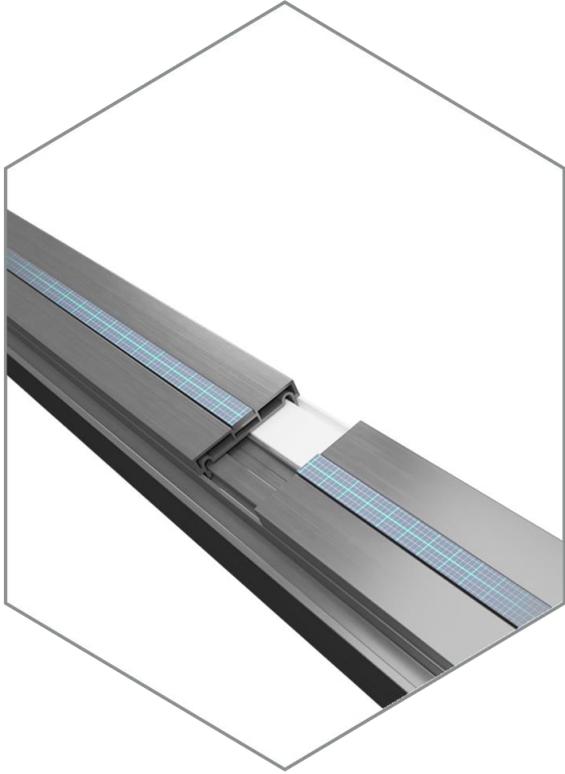
# SECURITY FEATURES:

- Anti-tamper security screws attach roof bar end caps, preventing them from being easily removed
- High security radius end top caps are bolted through from the inside using strong metal M8 fixings
- All rafter & hip rafter top caps are protected by overlapping castings which prevent access to the end of the bars which helps stop them being removed when attacked

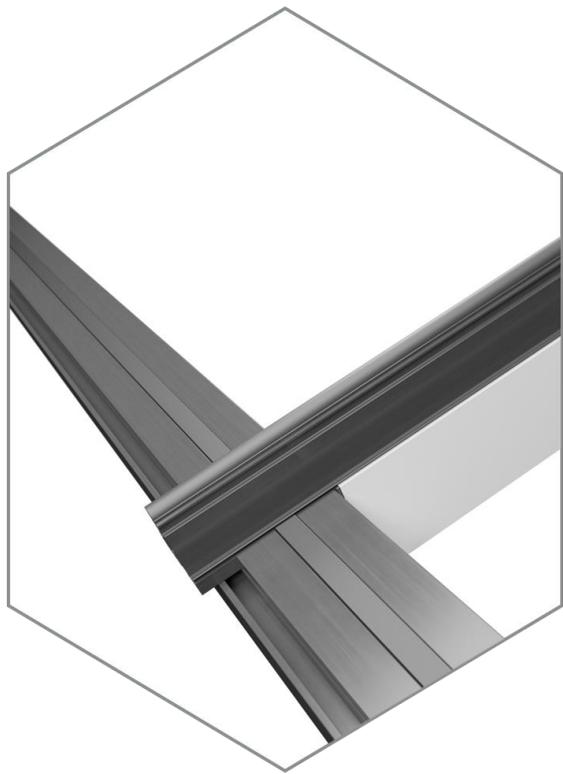




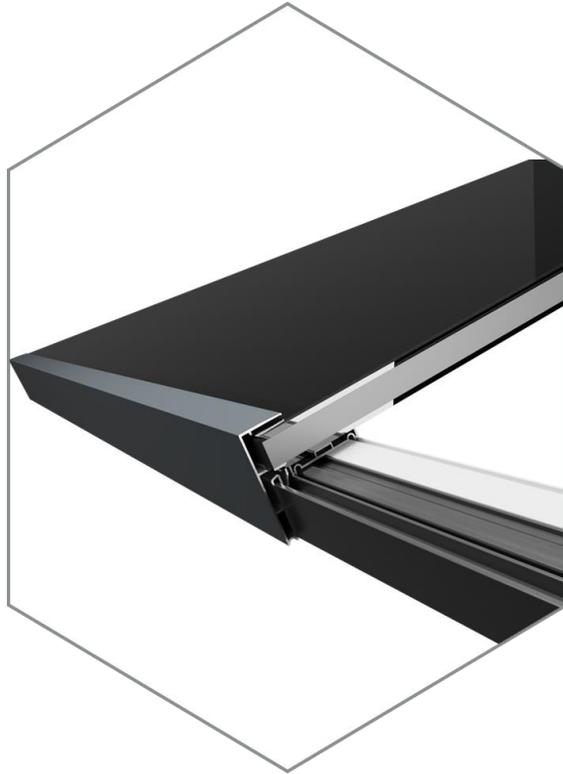
# SECURITY FEATURES:



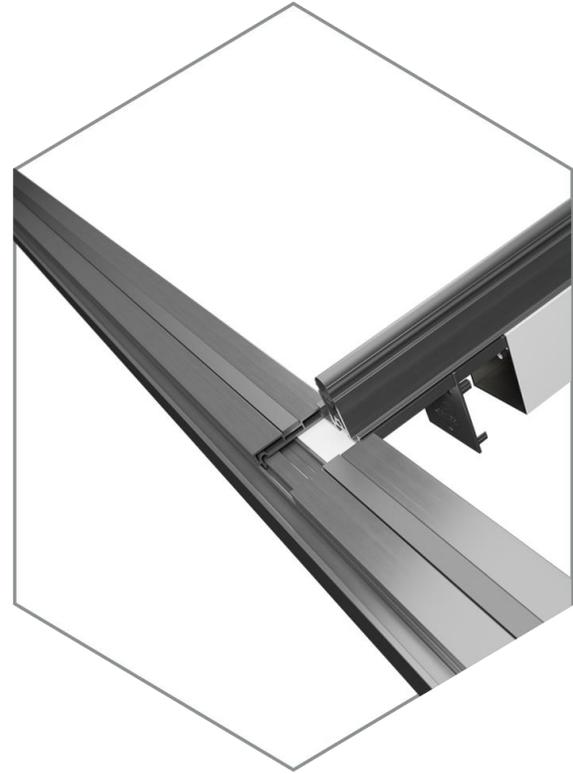
High performance glazing tape adds a layer of security



Integral gaskets prevent top caps from slipping



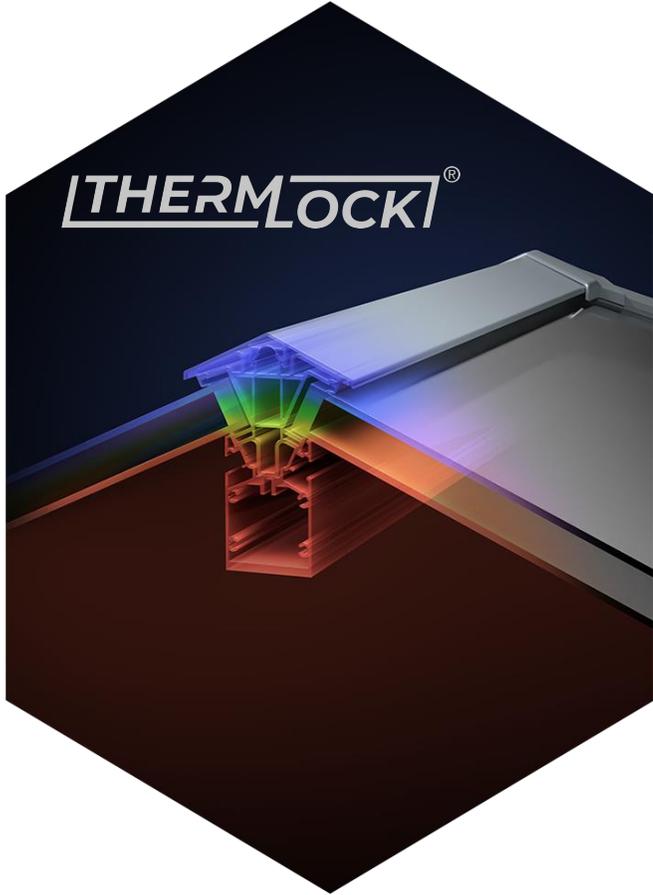
Design encapsulates glass with a unique patent pending glass lock



Aluminium finishes at eaves beam helps reduce cold-bridging and condensation



# SUSTAINABILITY FEATURES:

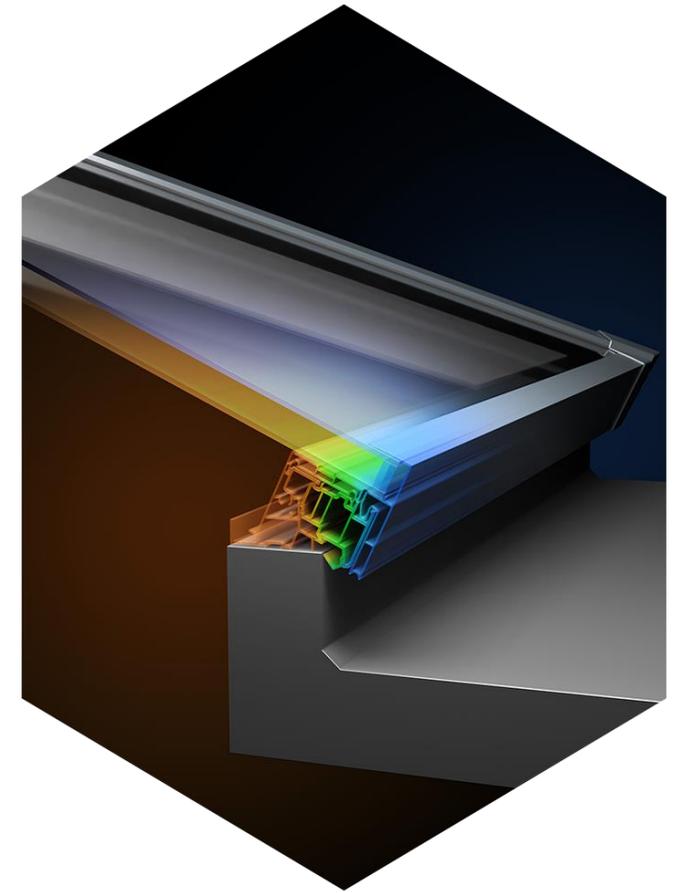


Thermlock® technology in all profiles keep heating bills low



Provides truly exceptional thermal performance

\* Subject to specification



Thermally efficient eaves beam assembly ensures aluminium remains internal

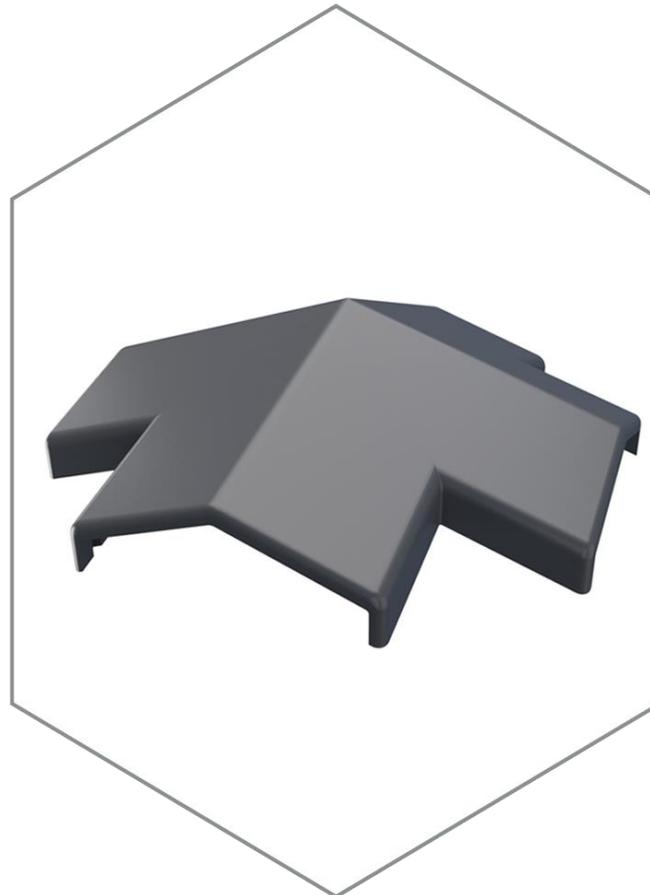
Load tested for a snow load of 1.2 KN/m<sup>2</sup>. Covering the whole of the UK up to 200m altitude.



# STYLISH FEATURES:



Integrated LED light strip channels in both the eaves beam & ridge



2-way and 4-way roof options available



Clean lines and discrete external aesthetics create an exceptional looking roof

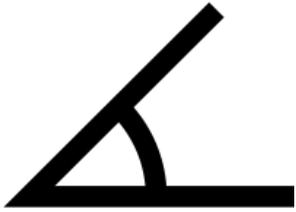
# STYLISH FEATURES:

- Slim, consistent 50mm rafter, hip and ridge sightlines maximise the light flooding into customer's homes
- Deep internal rafter and ridge bars create a high end architectural aesthetic
- Corner and rafter end caps run seamlessly in line with the perimeter of the lantern
- Creates the perfect balance of understated refinement, contemporary looks and exacting quality standards





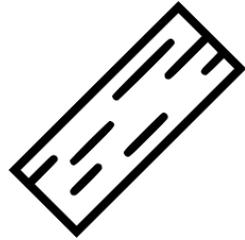
# TECHNICAL SPECIFICATION:



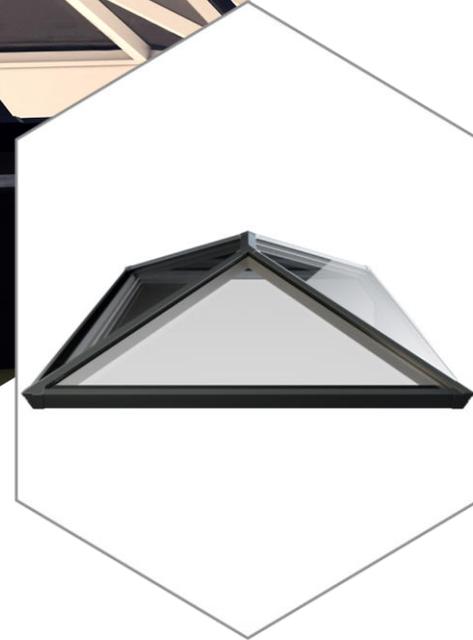
Fixed  
25°  
roof pitch



28mm  
glazing in  
all Lanterns



Minimum  
upstand to be  
75mm x 150mm





# TECHNICAL SPECIFICATION:



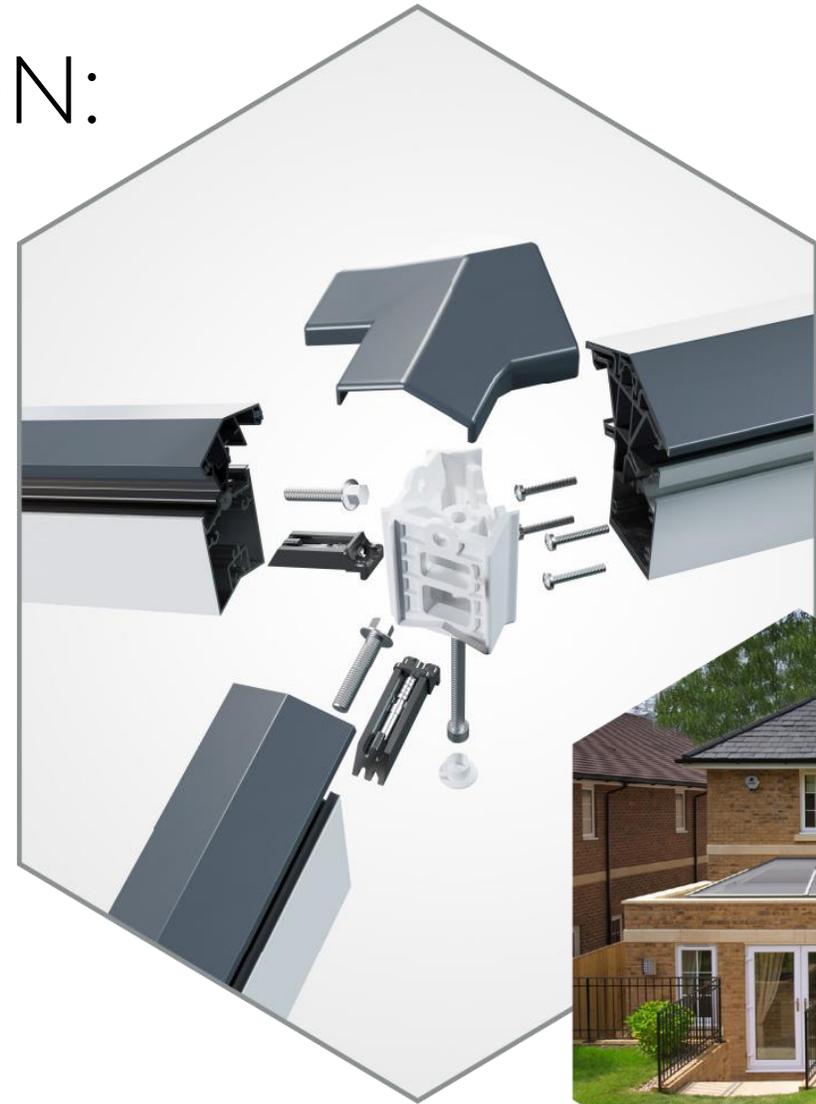
RAL9005,  
RAL9010 &  
RAL7016  
stocked colours



10 different  
roof styles  
including  
pyramids

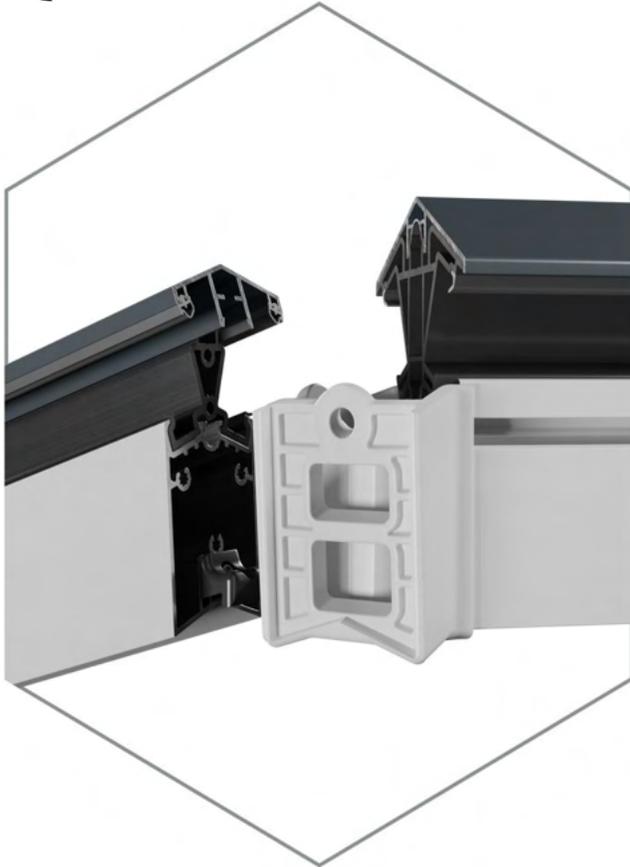


Maximum  
6000mm  
x 3200mm with  
no tie bars

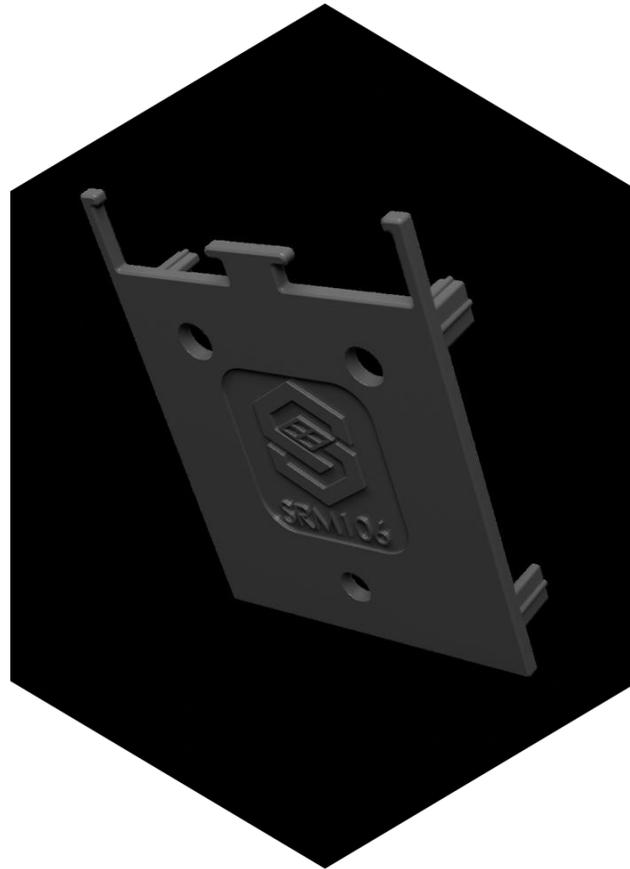




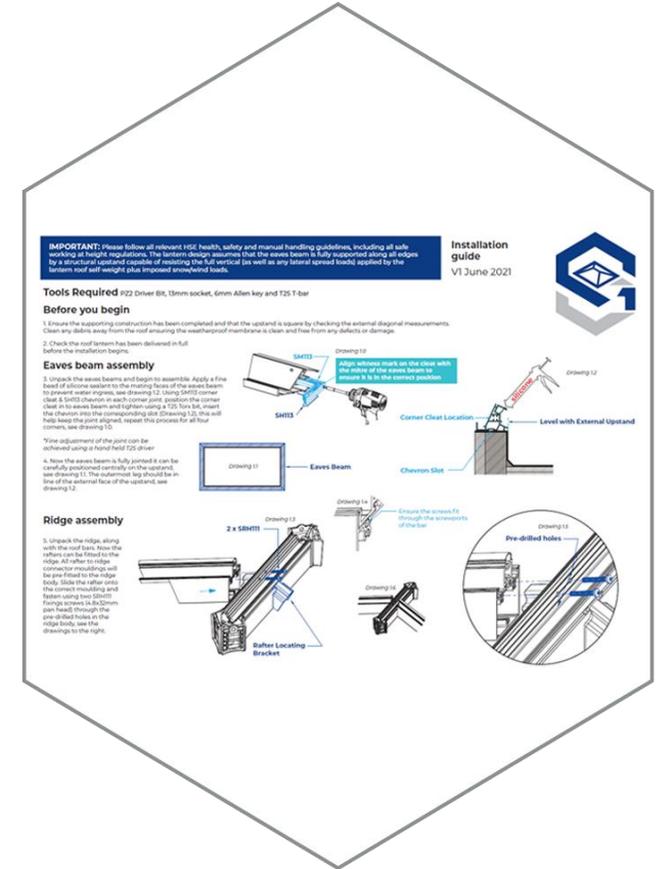
# INSTALLATION BENEFITS:



Unique hook brackets support the hip rafters during construction, simplifying fitting on site and speeding up installation



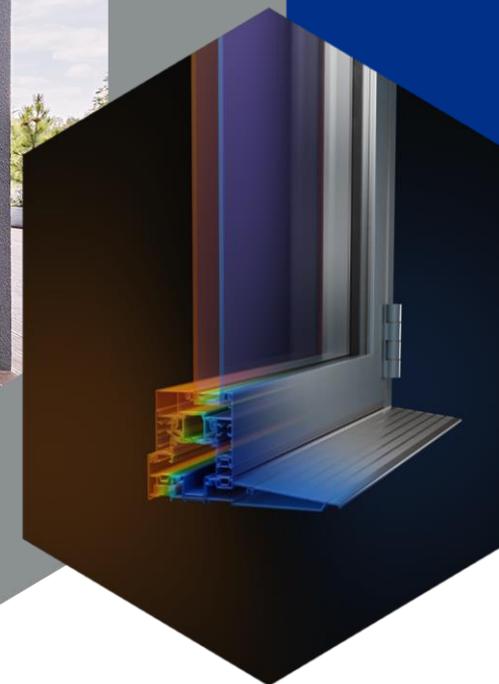
Internal rafter end caps prevent bars marking the eaves beam and ridge, eliminating the risk of damage during fitting

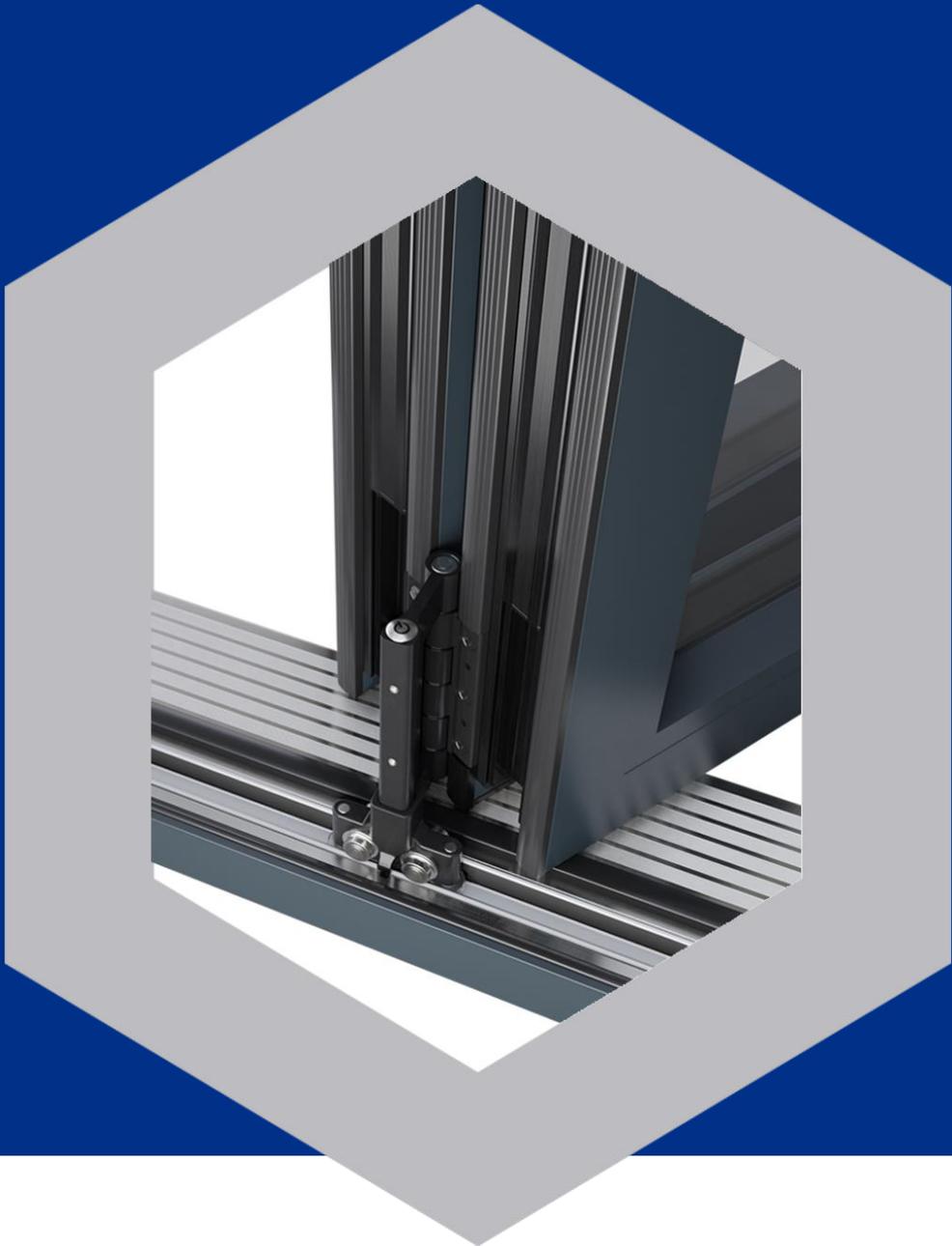


Easy to use, step-by-step installation guide available

# Prestige bi-folds

INNOVATIVE, NEXT GENERATION  
ALUMINIUM BI-FOLD DOORS





INTRODUCING

*Prestige  
bi-folds*



EXCEPTIONAL THERMAL PERFORMANCE



FLAWLESS OPERATION

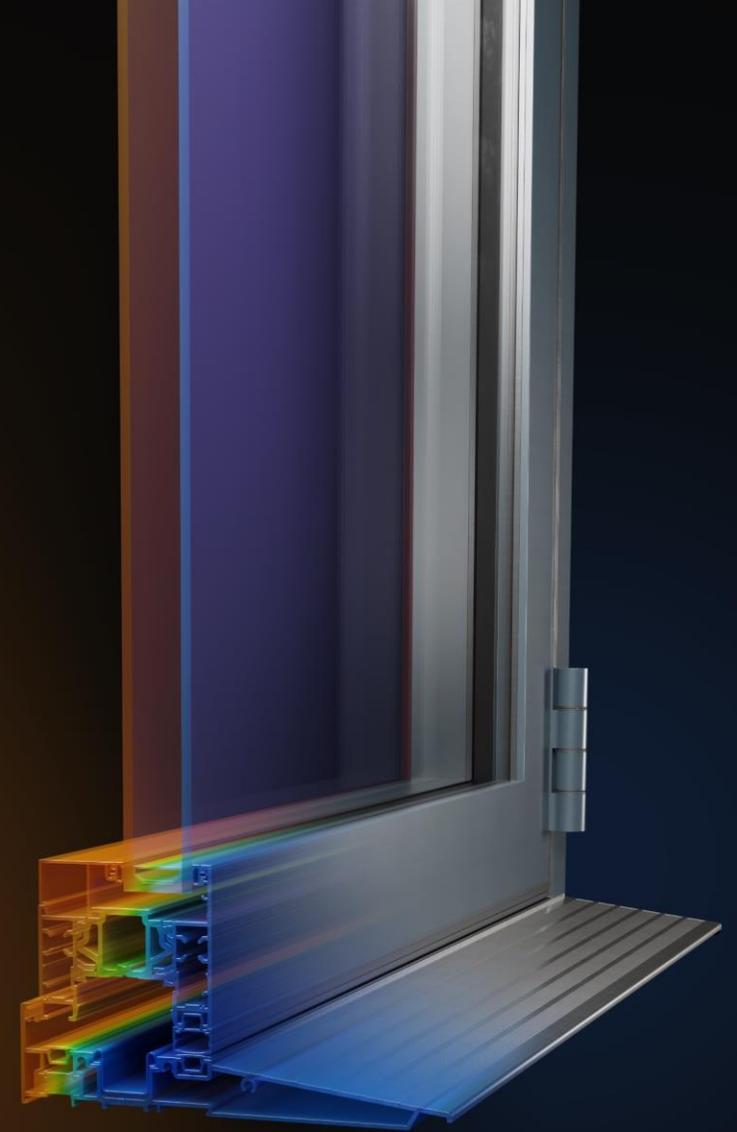


AESTHETICALLY BALANCED



# EXCEPTIONAL THERMAL PERFORMANCE:

- Thermlock® technology in all profiles
- 40mm multi-chambered Thermlock® thermal breaks give much greater thermal performance than equivalent polyamide designs
- Designed and manufactured in-house drastically reduces supply chain shortage issues

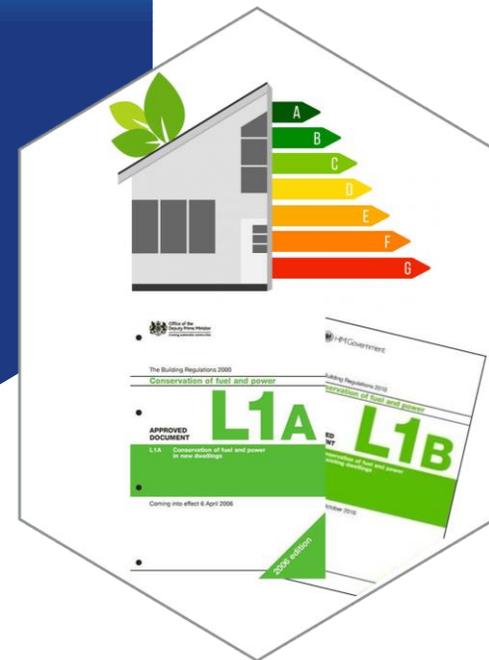
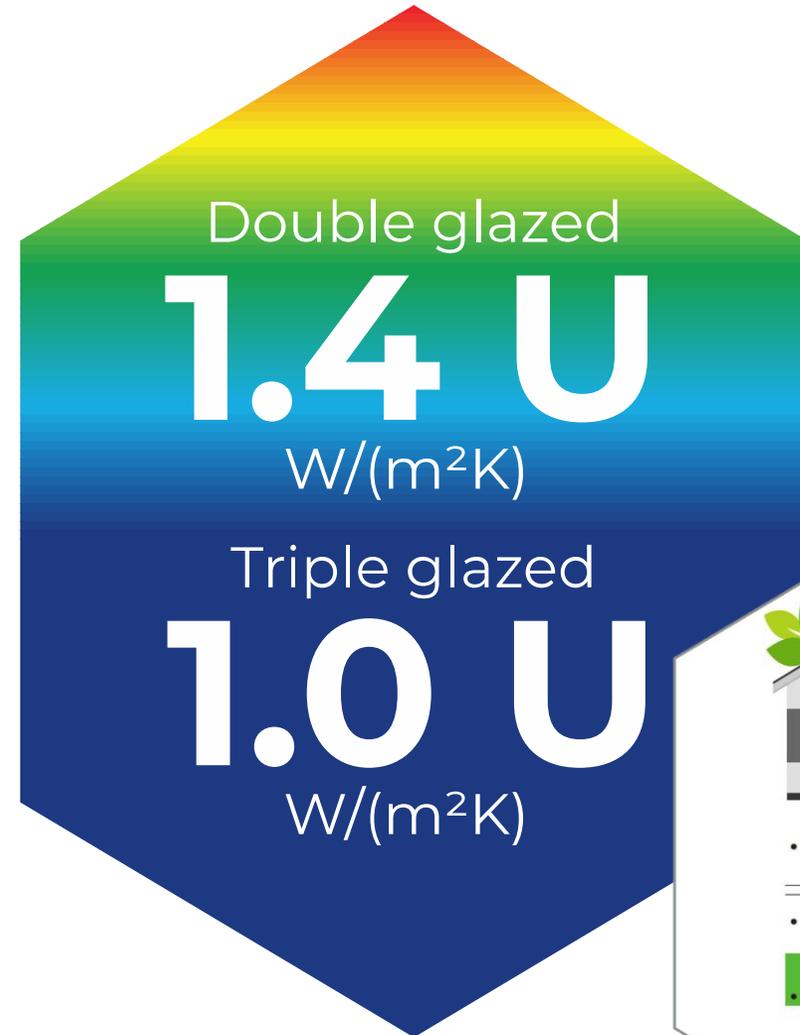


**THERMLOCK**®



# EXCEPTIONAL THERMAL PERFORMANCE:

- Class leading U-values of:
  - 1.4 W/m<sup>2</sup>K for double glazed doors
  - 1.0 W/m<sup>2</sup>K for triple\* glazed doors
- Future proofed against the proposed tightening of building regulations



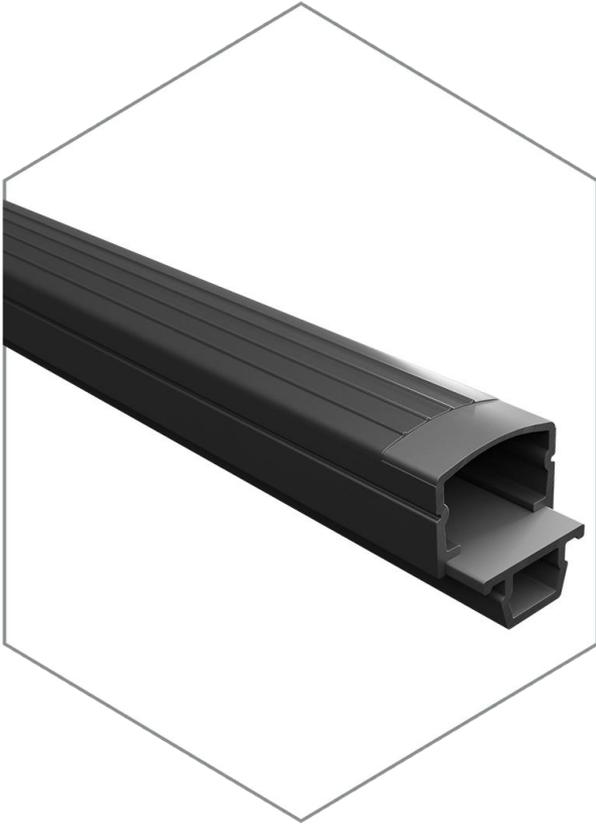
\*1.1 for triple glazed stepped sashes

# FLAWLESS OPERATION:

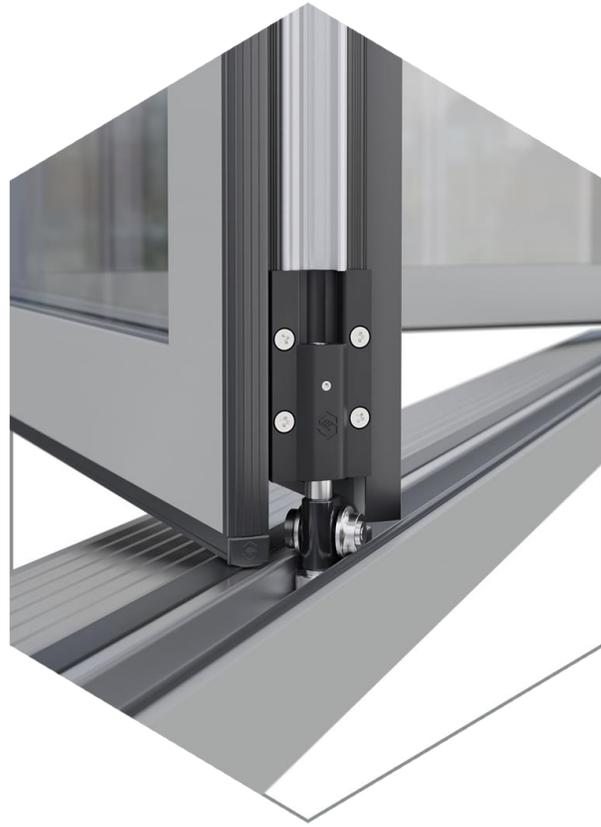
- One piece stainless steel track to head and threshold (with integral drainage) for smooth and reliable rolling
- French passive doors include an integral finger pull lock eliminating the need for a second handle. A mishandling device also ensures the doors are locked in the correct order
- Bepoke Winkhaus locks and one piece keeps, proven VBH hardware



# FLAWLESS OPERATION:



Unique tri-material gaskets with low-friction coating for smooth performance



Eliminating the need for corner gasket mouldings

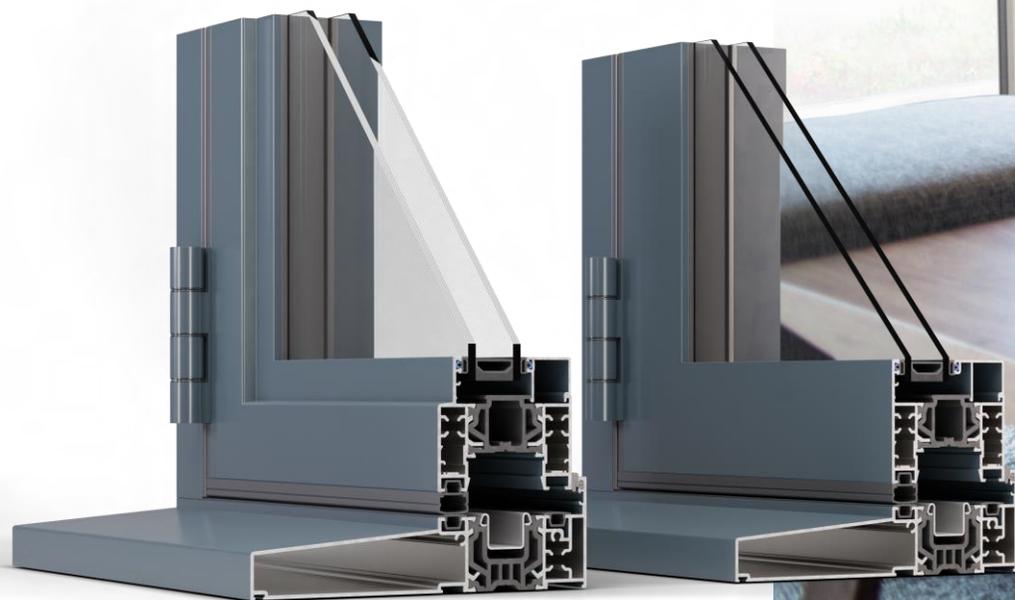


Fully weather-sealed rebate ensures all doors remain weathertight, eliminating over-centring issues



# AESTHETICALLY BALANCED

- Slim 138mm sash-to-sash sightlines, standard across all styles
- A choice of stepped and contemporary sashes perfectly match the rest of the Sheerline range





# AESTHETICALLY BALANCED

Four threshold options available, all with fully weather-sealed rebates:



## Integral cill option

*available in the standard colour range*

## Part M compliant ramped low threshold in anodised silver

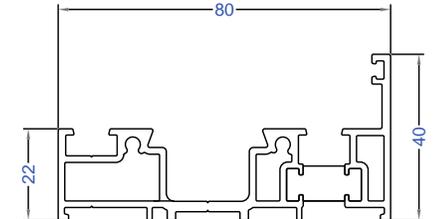
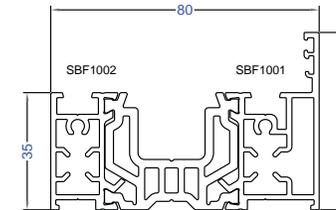
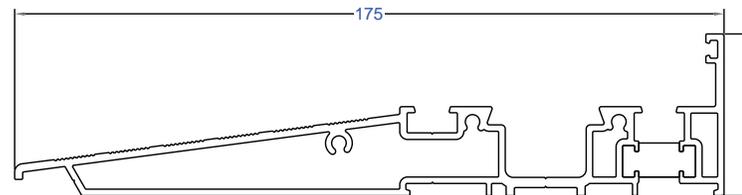
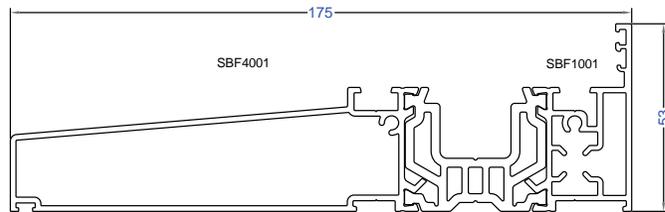
*external openings only. Awaiting testing.*

## Standard outer frame

*compatible with standard cills*

## Low threshold in anodised silver

*compatible with standard cills*

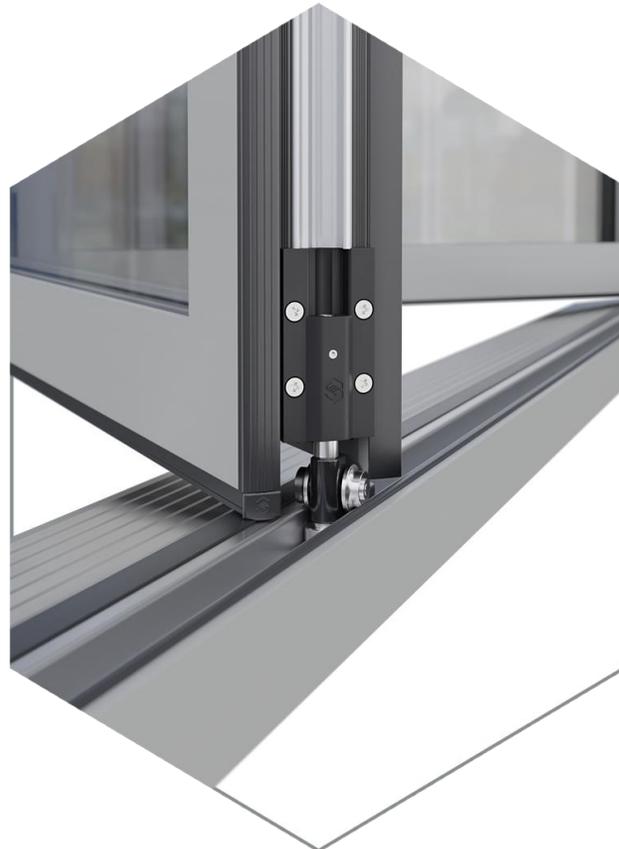




# AESTHETICALLY BALANCED



Up to 7 pane configurations,  
plus single and French  
doors



Bespoke single roller available -  
eliminating the need for  
floating mullions

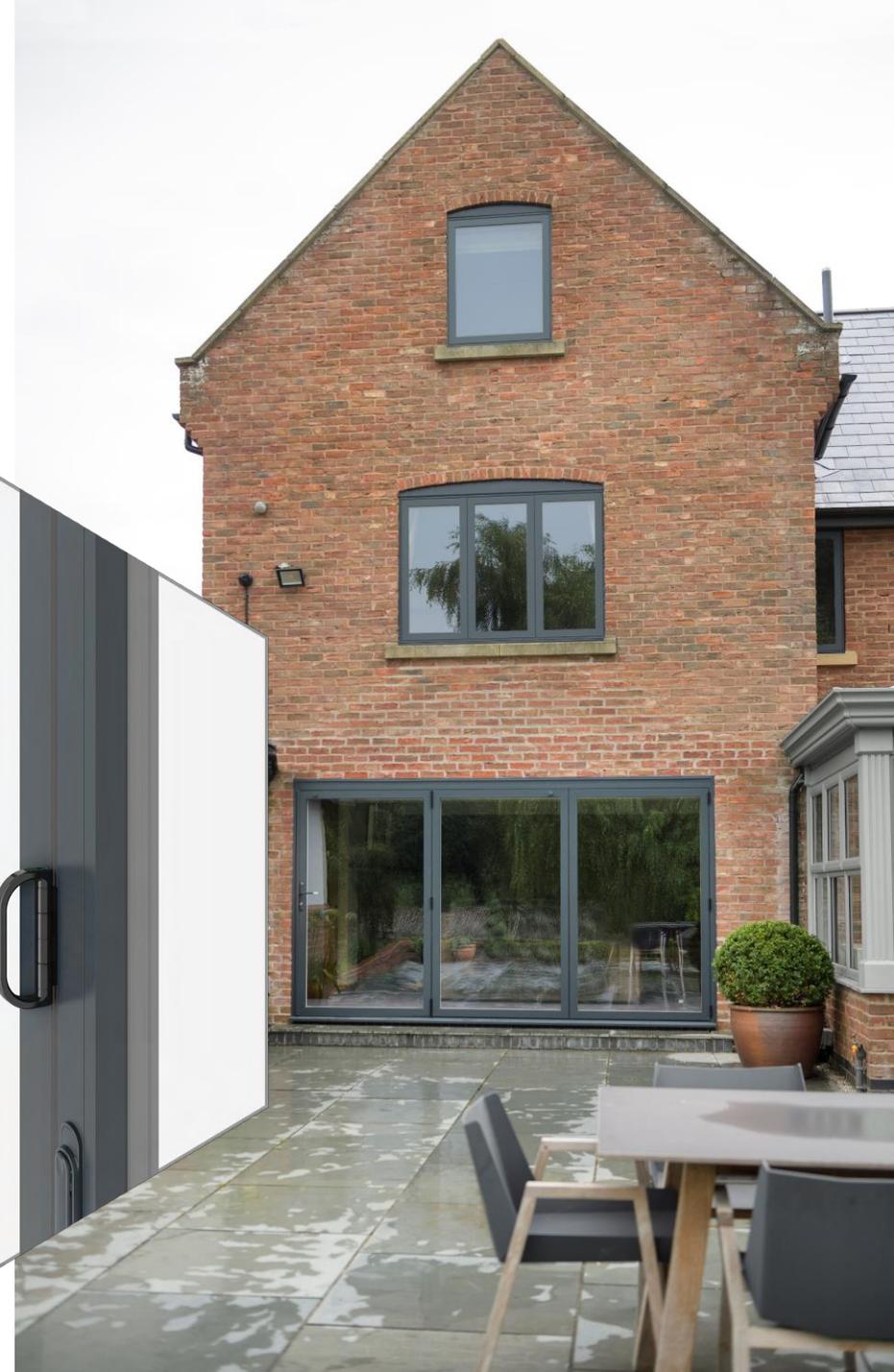


Passive French doors include  
integral finger-pull lock for  
uncluttered single handle look



# AESTHETICALLY BALANCED

- Concealed drainage slots remove the need for unsightly drainage covers
- Slimline internal handle and D ring
- Flush styling for external opening doors, perfect for using alongside Classic and Prestige flush windows
- No brush pile, and no unsightly and unreliable corner gasket mouldings





# SECURITY FEATURES

- A full length high-security interlock on applicable styles for increased security
- Bespoke VBH hardware based on proven designs
- Bespoke Winkhaus 'Thunderbolt' locks and one piece keeps for reliable 5-point with double deadbolts
- Unique Brisant Ultion folding key and lock combination
- All hardware is covered by suppliers 10-year guarantees\*

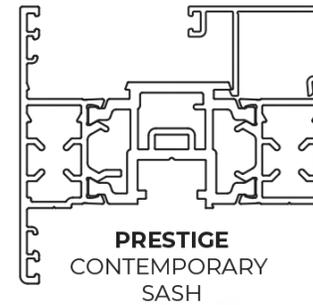
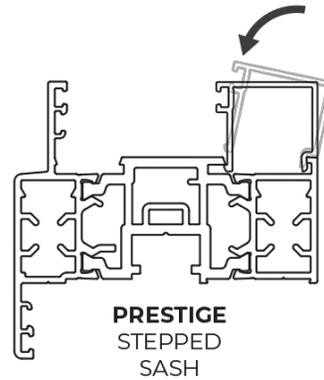
*\*Component suppliers own guarantees covering mechanical operation subject to T&C's*





# INSTALLATION BENEFITS:

- Proven clip-in beads from the Prestige range:
  - 28/36/44mm glazing for contemporary sash
  - 28/36mm for stepped sashes
- Bespoke high compression gaskets means overcamming doors don't crack internal plaster-lines\*



\* 2/2/0, 4/4/0 and 6/6/0 styles



# INSTALLATION BENEFITS:

- Unique one piece 'factory sealed' end cap also acts as a frame jointer. Incorporates concealed drainage within the integral cill and ramped thresholds
- Tolerance friendly manufacture and installation with 5mm of vertical adjustment
- Uses standard Prestige cills, frame extensions, butt joints and ancillaries



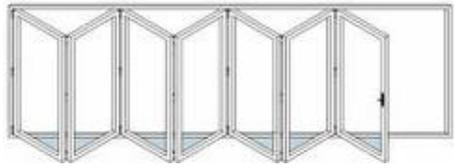


# INSTALLATION BENEFITS:

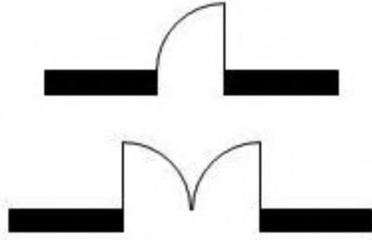
- Outer frames can be supplied to site 'flat packed' for on-site assembly, solving many site access issues
- Flat bottoms on all thresholds allow for easy installation, manoeuvrability and storage
- Bespoke Winkhaus door locks provide extra clearance between sashes



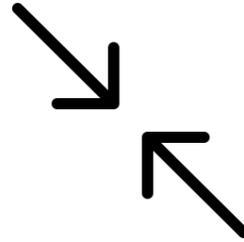
# PRODUCT SPECIFICATION:



Up to 7 pane configurations including 4/2/2



Plus single and French doors

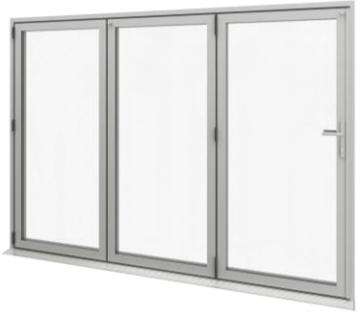


Inward and external options available





# PRODUCT SPECIFICATION:



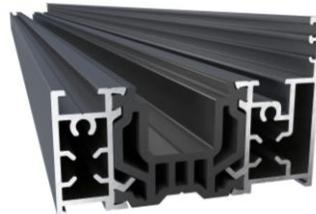
Outer Frame:  
Max width 6.5m  
Max height 2.6m



Sash:  
Max width 1.2m  
Max height 2.5m



Max sash  
weight 120kg



80mm outer frame  
with 72mm deep sash



# PRODUCT SPECIFICATION:



Available in 9 powder coated colours & 3 anodised finishes



Bespoke VBH hardware in:  
RAL9005, RAL9010 &  
RAL7016



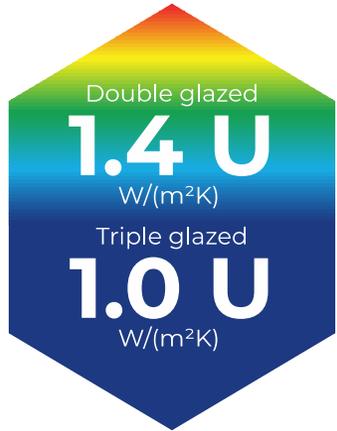
Unique Ultion  
folding key and lock



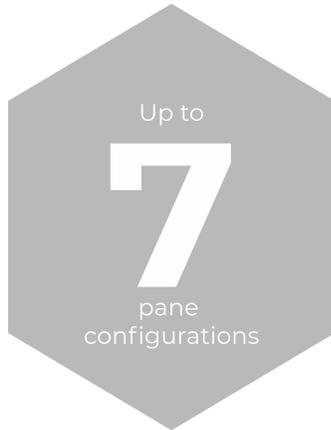
Bespoke Winkhaus  
locking system



# KEY FEATURES



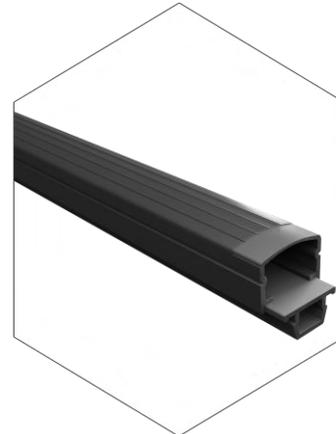
Class leading U-values



with no floating mullions, plus single and French doors



4 threshold options including an integral cill,



Unique tri-material gaskets with low-friction coating for smooth performance



Bespoke VBH hardware based on proven designs



Bespoke 'Thunderbolt' locking with one piece keeps and integral finger-pull passive door lock



Prestige components reduce stockholding complexity



**Thanks for  
your time.**

