



FIRST GLASS ROOFS

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Light Inspired Design



Here at First Glass Roofs Ltd, we are responsible for the design and manufacture of all the components that are used in our systems.

Designed by a team of some of the best system designers around, our products are manufactured in the UK at our east Hampshire headquarters.

First Glass Roofs Ltd are renowned for supplying our systems to some of the largest names in the aluminium glazing industry. We understand that when one of our systems is brought to the market, that testing is a key part of the products features. That's why all of our products are tested by government accredited test facilities, to ensure peace of mind for the end user when it comes to design and functionality, brought together for only the best performing products on the market.

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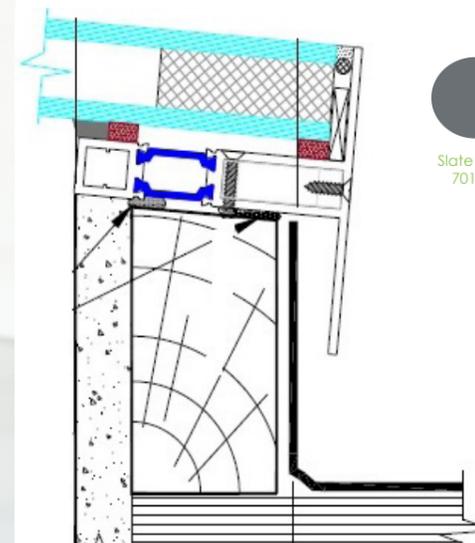
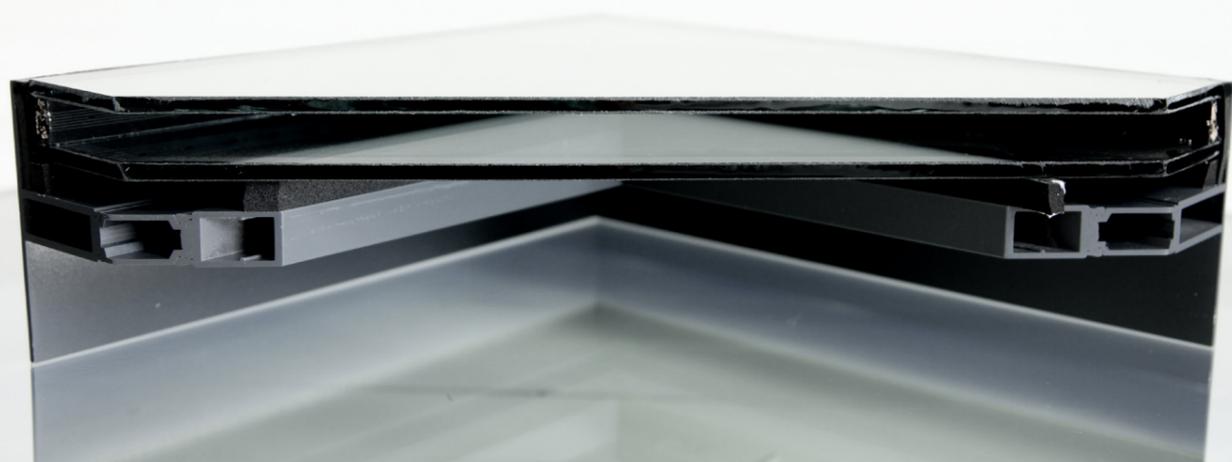


# Frameless Flat Rooflight

Our Flat Rooflight system was the first system designed by First Glass Roofs, boasting large thermal breaks for unrivalled truly tested U-Values. Keeping a minimalist aluminium structure is always key to our designs, while also being very versatile in its design construction allowing triple glazed and quadruple glazed yet remain flush with the frame, makes this system one preferred by installers across the UK.

Our Flat Rooflights are pitched at 5 degrees as an industry standard to ensure minimal pooling on the Rooflight. We only use top specification glass in the manufacture of the flat rooflight for product safety and longevity.

- Thermally broken aluminium comprising of 2 x 27mm polyamide inserts
- Finished in a tough and long lasting polyester powdercoated paint
- 48mm overhang for a better weather tight seal
- Extruded frame can accommodate 20mm- 44mm DGU plus Walk-On glass.
- Glass from 1.0 U value to 0.2
- Glass spec is subject to size
- Available in double glazed or triple glazed
- Product lead time 12-14 working days.



Slate Grey  
7015M



Anthracite Grey  
7016M



Jet Black  
9005M



Dual Colour  
Anthracite Grey 7016M External  
White 9910M Internal



Dual Colour  
Jet Black 9005M External  
White 9910M Internal

## Glass Specification

Solar Control Self Cleaning Glass  
DOW 3362 Structural Grade Sealed Double Glazed Unit  
Black Thermal Spacer Bar  
Argon Gas Filled  
Soft Coat  
Toughened  
Polished  
Arrised Edges

# Walk-On Units

Introducing our walk-on glass rooflight boasting thermal breaks of 27mm and a glass specification of 33mm component laminate, makes our Walk-on rooflight safer and more thermally efficient than most available on the market. Walk-on glass can open up new design possibilities and feature to any property it's situated in .

- Thermally broken aluminium comprising of 2 x 27mm polyamide inserts
- Finished in a tough and long lasting polyester powdercoated paint
- 33mm Component Laminated Glass
- Clear Glass or Privacy/Frosted Anit Slip Glass available
- Product lead time 21-25 working days.



Slate Grey  
7015M



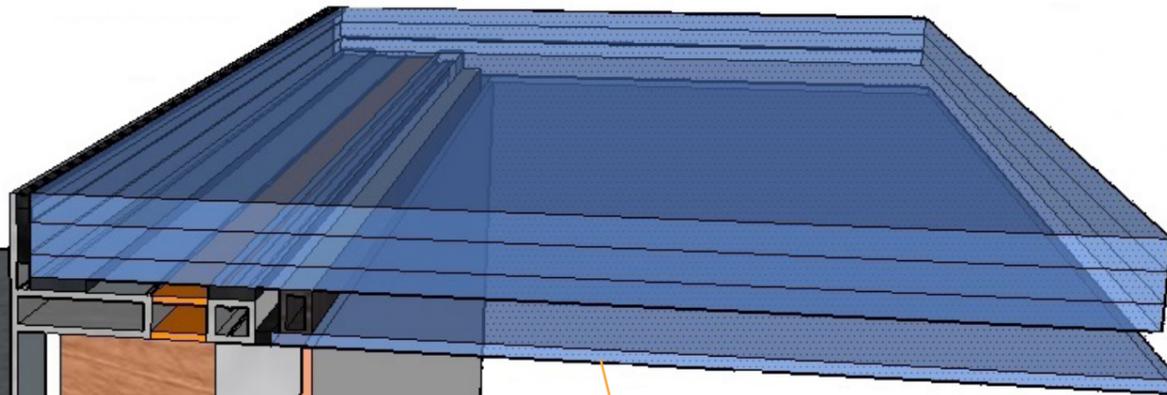
Anthracite Grey  
7016M



Jet Black  
9005M

## Glass Specification

33mm Component Laminate (minimum)  
Stepped Unit for external use  
DOW 3362 Structural Grade Sealed Double  
Glazed Unit  
Black Thermal Spacer Bar  
Argon Gas Filled  
Soft Coat  
Toughened  
Polished  
Arrised Edges



6mm or 8mm stepped unit when the Walk On Rooflight is used for external use for structural purposes.



## Walk-On Units

for internal and external use



Triple Seal Gasket System  
for industry leading water tightness

# Frameless Opening Rooflight

Introducing our new Frameless Opening Rooflight in electric or manually operated versions, boasting market leading U-values along with industry leading water tightness using our own triple seal system. A first of its kind which is fully frameless internally, allowing more sky and less frame, and externally keeping framework to a minimum to achieve the slimline appearance which aesthetically compliments the range of our fixed Rooflights. This, together with our Fix-Glaze Rooflight, boasts only the best in high end components for safe working and product longevity. As usual, our Opening Rooflight comes with Solar Reflective Self-Cleaning Glass as standard on all our Rooflights. With a glass U-value of just 1.0, this is unrivalled in its design and performance.

- 4 x 35mm Polyamide inserts
- Triple Seal Gasket System
- Finished in a tough and long lasting polyester powder coated paint
- Glass Specs - 6/18/6 or 6/20/4
- Double Glazed or Triple Glazed option
- Thermally Broken Aluminium
- Product lead time 3 weeks.



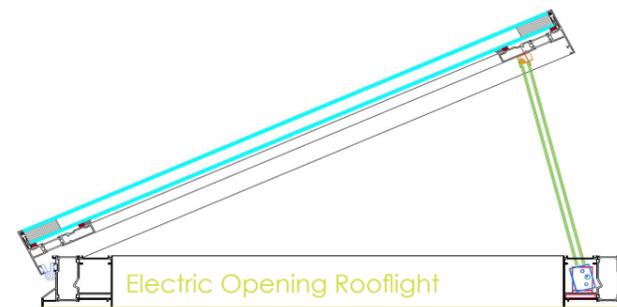
Slate Grey  
7015M



Anthracite Grey  
7016M



Jet Black  
9005M

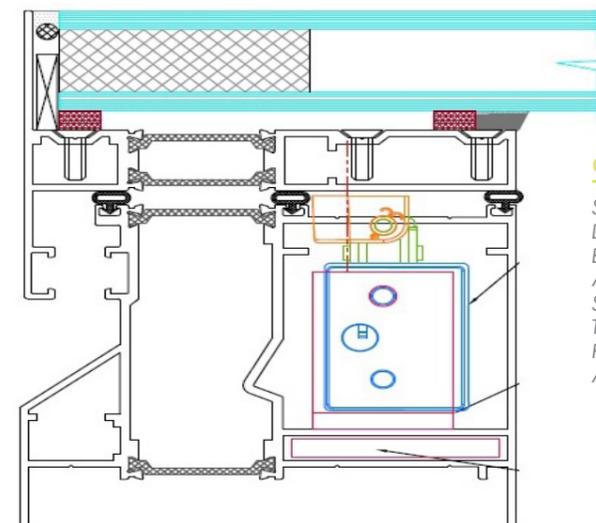


Electric Opening Rooflight

Manually Opening Rooflight (Maintenance Hatch)

- Electric Opening of 400mm
- Includes wireless remote
- Rain sensor available
- Wind & rain sensor available
- Rocker switch available
- 230 volt motors

- 90 degree opening
- Stainless Steel T handle
- This is generally used for maintenance
- Double lock security latches
- Steel strengthened frame
- Gas strut assisted



## Glass Specification

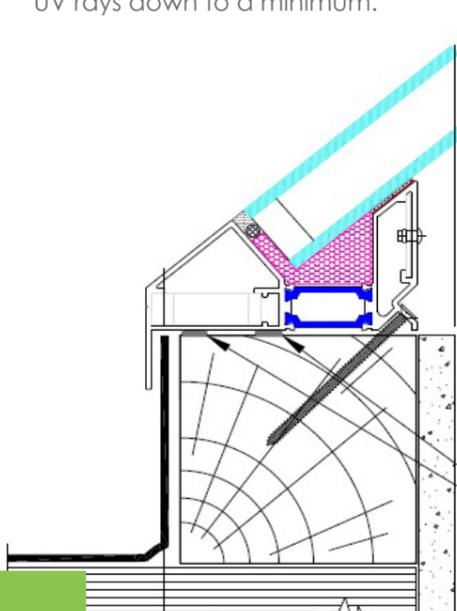
Solar Control Self Cleaning Glass  
DOW 3362 Structural Grade Sealed Double Glazed Unit  
Black Thermal Spacer Bar  
Argon Gas Filled  
Soft Coat  
Toughened  
Polished  
Arrised Edges



## Frameless Lantern/Pyramid

Our Ultra-modern Roof Pyramid / Lantern is one of the slimmest designs on the market today, providing more light transmittance than most. Traditionally, other companies use bars which makes them bulky and obtrusive and U values are also effected, making ours more efficient and aesthetically pleasing. Consisting of glass to glass joins with thermal foam barrier using a glass of just 1.0 U value the product will keep you warm even in the harshest of conditions. Along with Solar reflective self cleaning glass, it keeps the suns UV rays down to a minimum.

- Thermally broken comprising of 2 x 32mm polyamide inserts
- Finished in a tough and long lasting polyester powdercoated paint
- 23mm overhang for a better weather tight seal
- Glass U value 1.0
- Glass spec is 4 / 22 / 4 Solar control toughened glass
- Structural glass to glass joins internally & externally
- Product lead time 12-14 working days.



Slate Grey  
7015M



Anthracite Grey  
7016M



Jet Black  
9005M



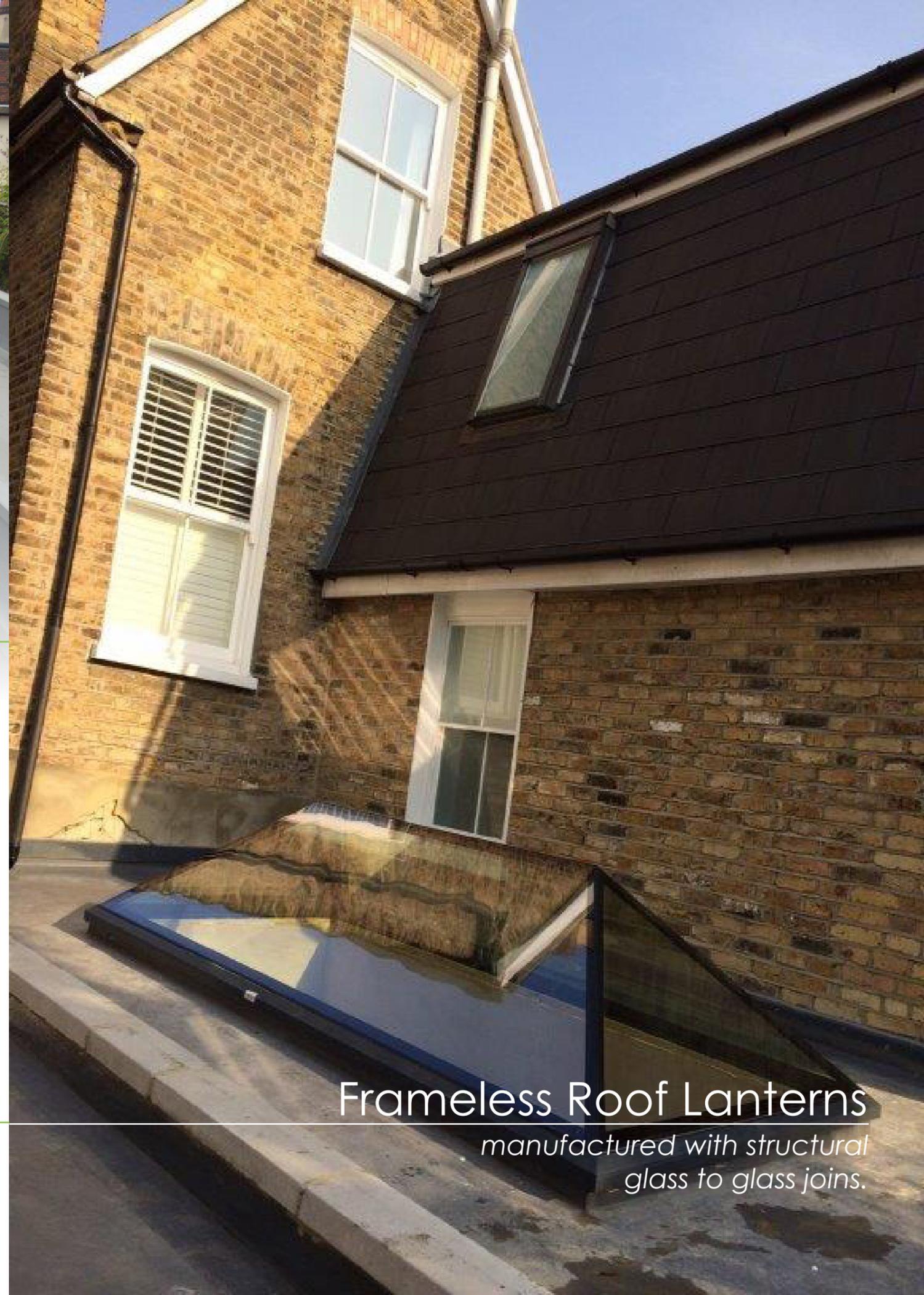
Dual Colour  
Anthracite 7016M External  
White 9910M Internal



Dual Colour  
Jet Black 9005M External  
White 9910M Internal

### Glass Specification

Solar Control Glass  
DOW 3362 Structural Grade Sealed Double Glazed Unit  
Black Thermal Spacer Bar  
Argon Gas Filled  
Soft Coat  
Toughened  
Polished  
Arrised Edges



## Frameless Roof Lanterns

manufactured with structural  
glass to glass joins.



## 2018 New Products

launching in the summer

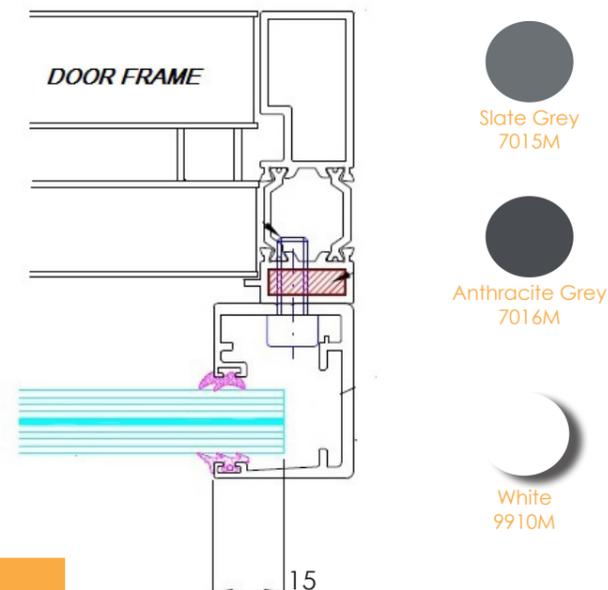
# Frameless Glass Balustrade

Inter-Glaze is a revolutionary new design of fully integrated frameless glass balustrade system which is thermally broken and is fully integrated to fit bi-fold, sliding French doors and tilt and turn window systems, it has been designed by First Glass Roofs and has been tested to BS6180 and surpassed current regulations. This will be a choice for architects and for people who have specific design requirements, not to mention this has never been achieved in the industry until now. We believe this is one of the safest balustrade systems, using 16.8mm laminated glass with the very latest laminate technology.

- Thermally broken aluminium frames
- Finished in a tough and long lasting polyester powder coated paint
- Fully tested to **BS6180**
- No top or bottom rails obstructing the view
- System fixed into the main structure of the building
- Product lead time 3 weeks

### Glass Specification

16.8mm Soteria Crystal Clear  
 New glass laminate for strength  
 100% clear glass  
 23% thinner glass than conventional glass balustrades  
 Enealed  
 Polished



! Doors should be ordered to 'Aperture Size' minus **48mm** to allow for upright sections.

# Frameless Glass Box

Launching summer 2018, our Frameless glass box incorporates the latest in glass bonding and structural glass, incorporated into a seamless glass box structure, fully integrated into the building making a feature of any location its situated in. Blending high quality components into a remarkable ultra slim edge design, this product also benefits from polyamide thermal breaks and maximising glass for better U values.

- Thermally Broken Aluminium
- Structural Glass to glass joins both internally and externally
- Supplied fully bonded or kit form (subject to size)
- Can be retro fitted into existing openings
- Supplied in Jet Black RAL 9005m
- Lead time 4-5 weeks

## Standard Sizes:

(External Manufacturing Sizes)

Height: 1500mm	Height: 1800mm	Height: 2100mm
Width: 1500mm	Width: 1800mm	Width: 2100mm
Depth: 400mm	Depth: 400mm	Depth: 400mm

Bespoke sizes also available

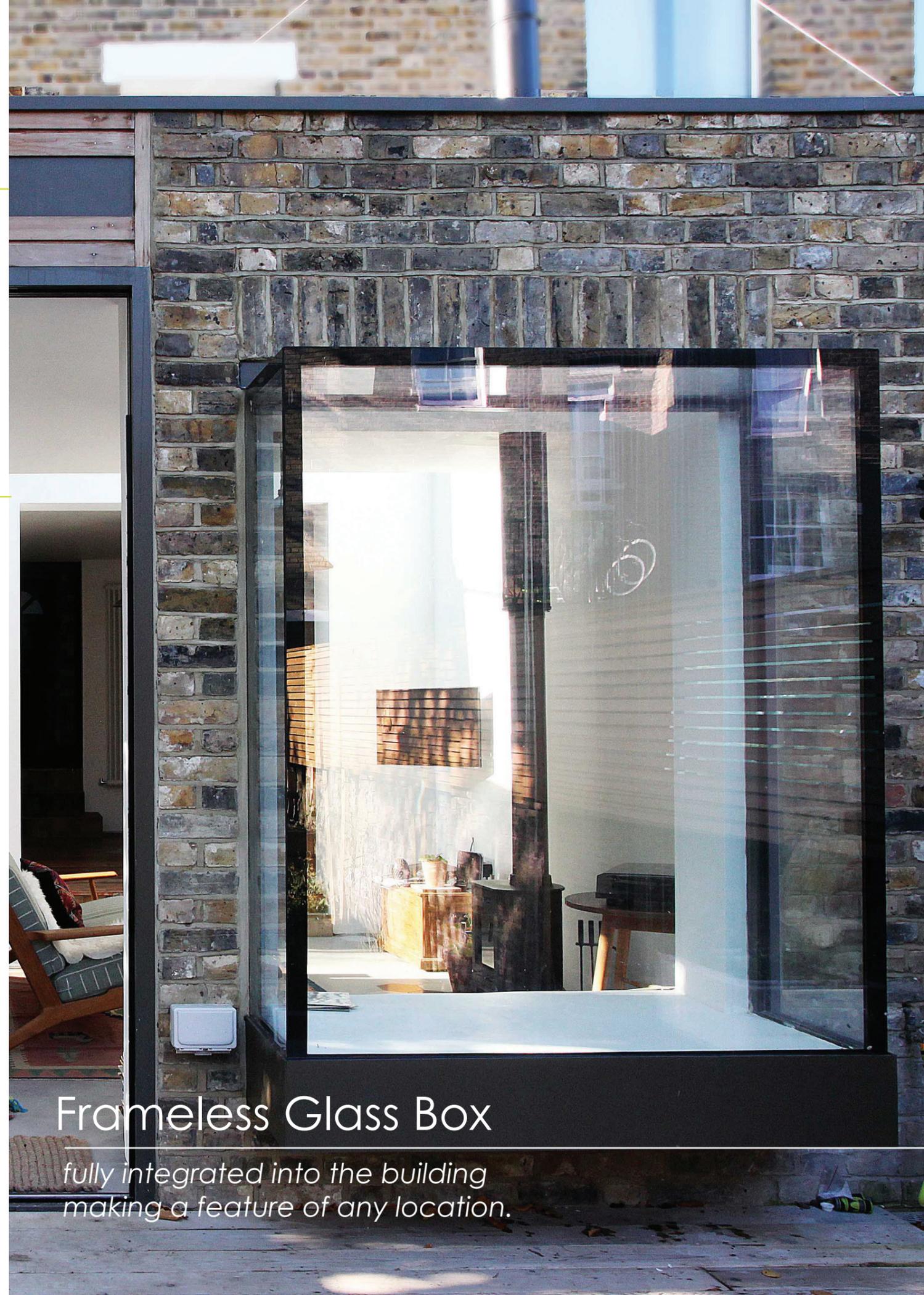
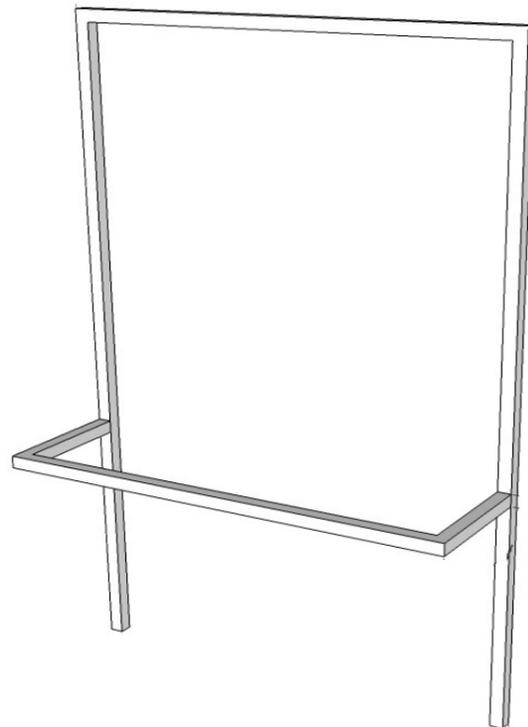
## Glass Specification

Solar Control Glass  
DOW 3362 Structural Grade 28mm Sealed Double Glazed Unit  
Black Thermal Spacer Bar  
Argon Gas Filled  
Soft Coat  
Toughened  
Polished

Steel frame by others

To ensure safety and strength, our Frameless Glass Box requires a steel frame securely bolted into the structure of the building.

This is subject to your structural engineers design.



## Frameless Glass Box

fully integrated into the building  
making a feature of any location.

# Frameless Fixed Window

Introducing our new Frameless Fixed Window in 2018. This will be another great performing system with larger thermal breaks than most, to achieve unrivalled U-values. Mainly used for larger applications of fixed window, it will be document Q tested for safety. Not to mention its ultra slim frame of only a 35mm sight line, we think this will be a hit for architects and for people with specific design requirements.

- Thermally Broken Aluminium
- Double Glazed or Triple Glazed
- 1 pane option or multipane option with no mullion
- Supplied in kit form
- Can be retro fitted into existing openings
- Lead time 12-14 working days

## Recommended Glass Specification

28mm, 34mm or 48mm Silicone Sealed Unit  
DOW 3362 Structural Grade Sealed Double Glazed Unit  
Black Thermal Spacer Bar  
Argon Gas Filled  
Soft Coat  
Toughened

All sizes are made to measure



Internal View

External View



Light Inspired Designs

designed & manufactured in Great Britain



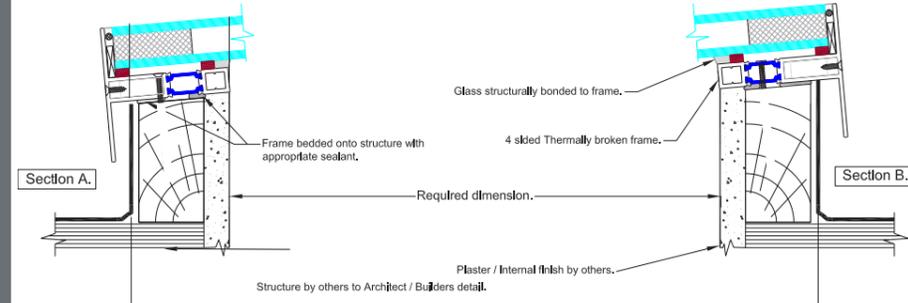
**BESPOKE**  
 Bespoke designs also available, just send us your specification.

# Upstand Information

## Frameless Flat Rooflight

Recommended Timber Upstand size:  
70mm - 75mm

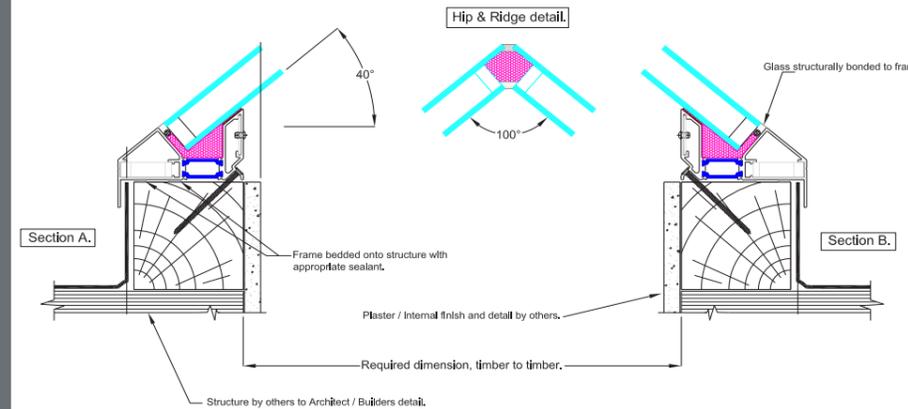
Minimum fall: 5 degrees  
Maximum fall: 45 degrees



## Roof Lantern/Pyramid

Recommended Timber Upstand size:  
70mm - 80mm

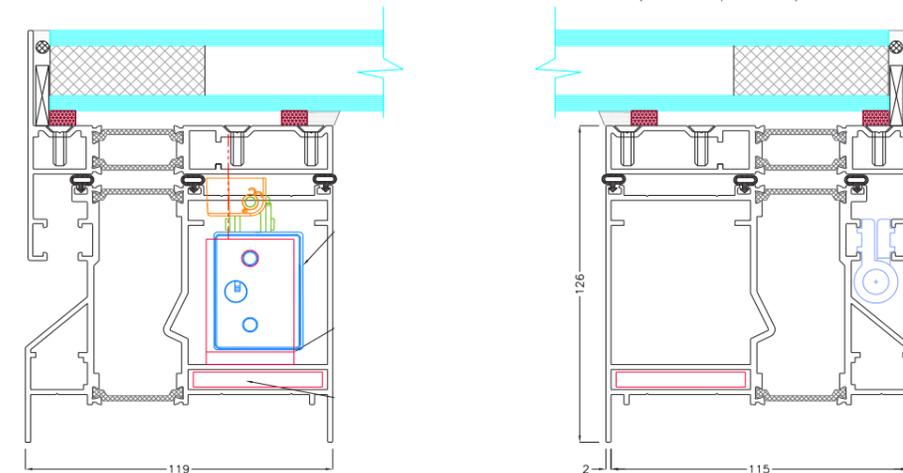
Must be installed on a flat roof  
0 degrees



## Opening Rooflight

Recommended Timber Upstand size:  
95mm-105mm

Minimum fall: 5 degrees  
Maximum fall: 15 degrees



There's always a grey area concerning upstands. Please check below the specifics, for each systems required Upstand.



# frequently asked QUESTIONS

## What is 'External Manufacturing' Size?

This is your External Kerb Size plus 30mm. This gives leeway to ensure the Rooflight fits the timber upstand perfectly.

## "Thermally Broken" explained

Thermal breaks are polyamide strips to ensure that the aluminium is thermally efficient, this is done by rolling the two aluminium extrusions together with the polyamide- this will stop condensation and heat loss. A lot of systems out there are just made of a single piece of aluminium, these cannot be classed as 'systems' and have no test results as they are not thermally efficient in any way by design.

## What's the difference between fully tested and a 'calculation'?

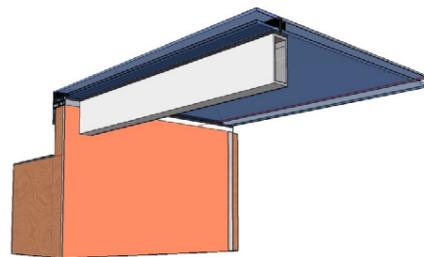
Calculations can estimate the U-value but are not accurate and can be manipulated to your favour. Having this done through a government accredited testing facility gives real accurate U-values with no manipulation just true test results.

## What's the difference between Silicone Sealed Units & Hot Melt Units?

Overtime UV rays breakdown hot melt sealed units, so we use only silicone sealed units as they do not degrade under UV rays. Silicone sealing is expensive but lasts longer and out performs hot melt. You will find silicone sealed units are mostly used in structural glass applications such as skyscrapers etc.

## What if the Flat Rooflight is too large for one pane of glass?

The glass can be split into smaller sections with the design of a glass beam or a structural beam that the glass is bonded to. This allows you to make much larger rooflights with the ease of transportation and installation without the need for costly lifting equipment. For narrower Rooflights, we can use a structural glass to glass join for a more 'Frameless' look.



## What's the difference between glass to glass joins and the usual bars you find in standard Roof Lanterns?

Replacing bars with structural glass to glass joins means we can achieve better U-values, keep the Lantern more thermally efficient yet still maximise light with much thinner hips and ridge. Overall, accomplishing a more aesthetically pleasing and neater product by design.

## What's the maximum size glass unit thickness that can be used in our systems?

Flat Rooflight..... up to a 54mm unit  
Roof Lantern..... 30mm unit only  
Opening Rooflight..... up to a 36mm unit  
Balustrade.....16.8mm Soteria only

## Do I need planning permission for a Frameless Glass Box?

I would run the design through, just in case there would happen to be a problem this can be rectified by design.

## Do we install?

No, we are purely a systems company that design & manufacture for supply only. However, depending on your location we can pass you through to one of our distributors for your installation needs.

## We already have a glass supplier, can I purchase just the frame?

Yes- our Flat Rooflight, Roof Lantern & Opening Rooflight systems are available to purchase as a 'manufactured frame only'. However, our Balustrade system will have to be supplied with our 16.8mm Soteria Crystal Clear Glass included.

## Can I install your Rooflights onto any roofing substrate?

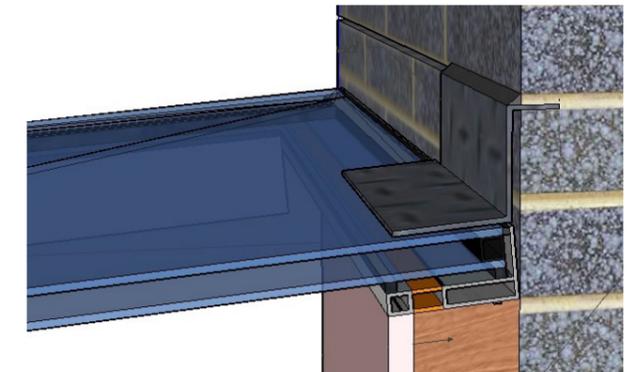
Yes, this is no problem. However you must make sure the correct sealant is applied depending on the substrate.

## What's the minimum and maximum pitch for your Rooflights?

Flat Rooflight..... 5 - 45 degrees  
Opening Rooflight..... 5 - 15 degrees  
Roof Lantern..... 0 degrees only

## What if the Rooflight needs to be installed against a wall?

This is not a problem, we can manufacture the Rooflight to suit the wall abutment detail.



For any other information you require on our systems, please do not hesitate to get in touch with our Sales team.



## Why choose First Glass Roofs Ltd systems?

We have an amazing hard working team dedicated to perfecting our products as well as confidently providing customer satisfaction.

- Fully tested products by government accredited facility
- Powder coated by the founders of powder coating technology
- Designed & Manufactured in the UK
- Superior sub system integration
- Easy product installation
- Industry leading U-values
- Best in bespoke options
- Energy efficient compliant with building regulations
- Achieve unsupported roof spans of 1550mm
- Glass concealed in the system to ensure safety
- Severe weather rated and snow loading rated
- Solar control glass including as a standard
- Low maintenance products
- No external fixings
- Fully tested glass-glass joins
- Ultra low thermal-conductivity



**FIRST GLASS ROOFS**  
LIGHT INSPIRED DESIGN

**First Glass Roofs Ltd Head Office**

Unit 2E Blacknest Industrial Estate  
Blacknest, Alton  
Hampshire, GU34 4PX

**Opening Times**

Monday - Friday 8.30am-5.30pm

**Factory Address**

Unit 5G Blacknest Industrial Estate  
Blacknest, Alton  
Hampshire, GU34 4PX

**Opening Times**

Monday - Friday 8.30am-5.30pm  
Saturday - 8.30am - 12.00pm

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