



# MORE SKY LESS ROOF™

VISIBLE **ELEGANCE**  
**SUPREME** PERFORMANCE

**ATLAS**  
GLAZED ROOF SOLUTIONS

# THE BEST LOOKING ROOFLIGHTS & LANTERNS

Join a rapidly growing number of homeowners across the UK enjoying the beauty, elegance and performance of Atlas Roofing Solutions every day.



## The Ultimate Slim Roof Lantern

Atlas roofs are leading the way in rooflight, lantern and orangery design, giving you the ultimate and unrivalled view from your home and extension with supreme aerial views. This combined with its industry-leading thermal performance ensures you can use your conservatory/orangery/extension 365 days a year.





“

THE **BEST VIEW** YOU  
CAN IMAGINE IS EXACTLY  
WHAT YOU'LL GET.

”

## THINNER STRONGER LIGHTER

### Less is definitely more

No clunky bars or supports cluttering the ridge. No thick, chunky profiles dominating the glazing.

Atlas' unique system design is pure engineering magic. Super strong, light, 40mm aluminium frame rafters create slim, elegant roof profiles with excellent thermal performance. Compared to conventional roofs sold by competitors, Atlas slashes the visible width and sight lines of rafters by **30%** and the main internal feature ridge by **70%**.

This unique design creates a feeling of **MORE SKY – LESS ROOFTM** giving you visible elegance to your roof design and appearance, whether you choose an all aluminium structure or PVCu capping – less is definitely more.





## VISIBLE INTERNAL ELEGANCE

The slim thermally broken aluminium rafter sections have a sleek appearance that brings a stylish ambience and modern finish, while maximising the use of light and space within your home.





# SUBTLE & STYLISH

## Low sight lines externally

From the outside, Atlas' discreet design for rafter external caps and sleek ridge are a world apart from the chunky conventional T-bar caps and ridges used by competitors.



## Quality finish

By keeping sight lines low and unobtrusive, Atlas ensures even a large glazed roof structure won't over dominate a plot.

All aluminium exterior coloured profiles are quality finished with powder coat paint, which is guaranteed to last. Dual coloured roofs are also available as the exterior colour can be easily changed to achieve the exterior look you desire.





# UNRIVALLED AERIAL VIEWS

Atlas have combined good looks, outstanding strength and intelligent detailing, to create one of the finest looking products available for conservatory and orangery installations.

The versatility of the aluminium rafters and creative design solutions have removed the requirements for outdated bulky hood covers on lantern roofs and Edwardians.

### KEY BENEFITS

- The UK's most thermal efficient aluminium roof system\*
- The UK's strongest roof system\*
- Minimalist modern design with ultra-low sight lines
- Ideal for orangeries and lantern roofs
- Clean low sight lines externally
- Choice of PVCu or aluminium external caps
- Bevelled or flat external caps to suit building design
- Available in all RAL colours



\*Independent tests show that Atlas offers the best strength and performance in the UK domestic conservatory market (excluding the addition of bolster bars).

70%  
SLIMMER

40mm  
Clean sight lines internally  
and low sight lines  
externally More sky!

NO  
CHUNKY  
COVERS

TAKE  
A CLOSER  
LOOK

Sharp lines inside and  
low sight lines outside

**MORE SKY – LESS ROOF™.** Whether you're inside looking up, or outside looking enviously in, an Atlas roof puts any property in a class of its own. Step under an Atlas roof and prepare to be amazed. The glass panes simply seem to float in the sky. The clean, sharp lines with minimal intrusion are possible thanks to the super slim 40mm frame. Unless it's a Victorian style, there's even no need for a boss or hood.





## SMARTER DESIGN

Discreet tie bars for extra structural rigidity, without detracting from the sense of light and space.

Three Atlas roof construction options provide the perfect roof for any property or scheme.

Most competitors insist on a rod tie bar at eaves beam level, but not Atlas. A choice of a hidden or rafter tie bar provides the ultimate luxury and flexibility to create the roof you want.

NO TIE BAR



HIDDEN TIE BAR



RAFTER TIE BAR



## MAXIMUM IMPACT MINIMAL INTRUSION

### Unrivalled strength

Extra strong rafters mean the tie bars can be set higher, guaranteeing excellent headroom and no intrusion into the living area. Even in large buildings the roof structure remains remarkably minimal, creating a sense of clear, free space under the eaves.

Increased roof strength means the design aesthetics and clear sight lines achievable using the slim Atlas profiles remains unmatched by any other manufacturer, creating a roof that can suit any dwelling.



## CONTEMPORARY OR TRADITIONAL FEATURES

For a modern finish, flat roof rafter caps are available in PVCu or aluminium. Bevelled external caps create a more traditional look.



An example of a typical competitor's profile.

**1** Aluminium Rafter Flat Cap  
(example colour RAL 7016  
Anthracite Grey)



**2** Aluminium Rafter Decorative Cap  
(example colour RAL 9005 Black)



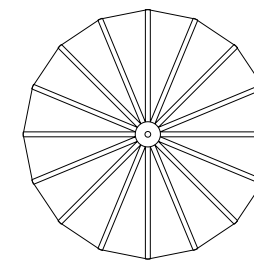
**3** Option 1 & 2 are available in all aluminium RAL colours as well as White, Rosewood and Oak PVCu options (example shows PVCu Rosewood)



The innovative versatility of an Atlas roof allows you to design a stylish roof to fit perfectly with your home.

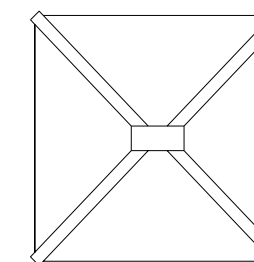
Talk to your retailer about the best option for your installation.

### CIRCULAR



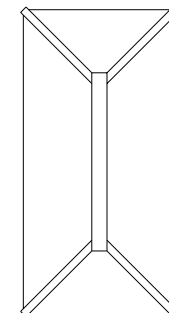
Maximum size = 4800mm

### PYRAMID



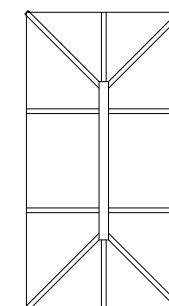
Maximum size **Contemporary Pyramid lantern** as per line drawing above = 2000mm x 2000mm. The **Regular Pyramid lantern** can go up to larger sizes with additional rafters.

### CONTEMPORARY



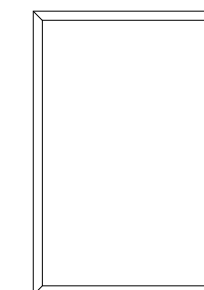
Maximum size  
= 1500mm x 3000mm

### REGULAR



Maximum size **Regular lantern** as per this rafter layout 3000mm x 4000mm – can go up to 5000mm x 10000mm with additional rafters.

### FLAT ROOFLIGHT



Maximum size 1200mm x 2500mm  
and 1400mm x 2000mm

Talk to your retailer about larger sizes.

## INNOVATION MEETS ARCHITECTURAL DESIGN

Over 200 long-lasting colours

Perhaps the most significant benefit for aluminium conservatories when compared with PVCu is the vast colour choice. Aluminium can be coated in any RAL colour using the most up-to-date powder coating processes. This ensures a much tougher finish than conventional spray painting used on timber or PVCu, whilst all powder coated components are colour guaranteed for ten years.





# COOLER IN SUMMER WARMER IN WINTER

**Why compromise excellent double or triple glazing performance?** Choose the best insulated rafters in the industry with Atlas roof profile\*.

The Atlas rafter is twice as thermally efficient as its nearest competitor. Upgrade to triple glazing to be 3 times as efficient.

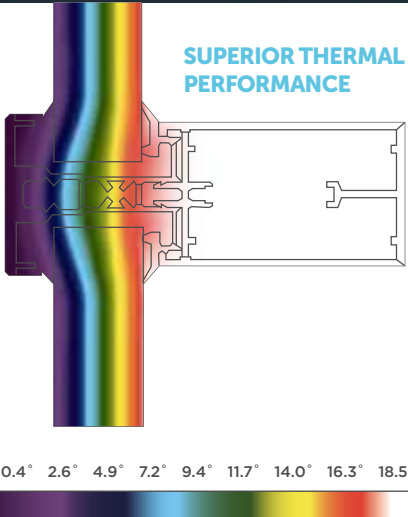
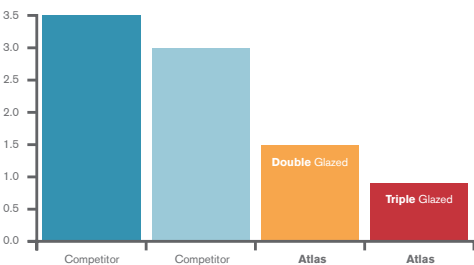
Overall U Value can be as low as 0.7 when triple glazed or 1.2 when double glazed.

Units incorporate argon gas, a safe and inert gas that improves insulation, and warm edge spacer bar technology that reduces 'cold spots' and condensation, avoiding formation of unsightly mould while improving thermal insulation.

A combination of low emissivity inner glass and argon gas filling means the Atlas solar control glass gives twice the insulation of ordinary double glazing, which reduces energy costs and keeps your conservatory warmer in winter.

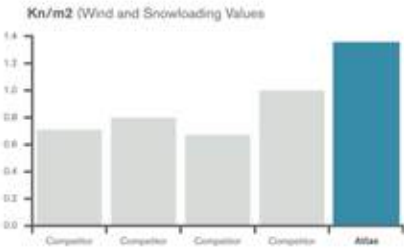
## TWICE AS EFFICIENT

U Values of Rafters of Leading Manufacturers



## CHOOSE AN ATLAS ROOF AND BENEFIT FROM SUPREME STRENGTH:

- Ability to withstand 33% greater 'live loads' such as snow or wind than other roofs
- Larger span roofs are reinforced internally meaning no unsightly 'bolster bars'
- Peace of mind with the investment in a roof you can admire for many years



## + KEY BENEFITS

With thermal insulation performance that's twice as good as the competition, you can enjoy:

- Comfortable, year-round room use
- Reduced risk of condensation
- Lower heating and air conditioning bills

*\*Independent tests show that Atlas offers the best thermal and strength performance available in the UK domestic conservatory market.*





**MORE SKY**  
**LESS ROOF™**



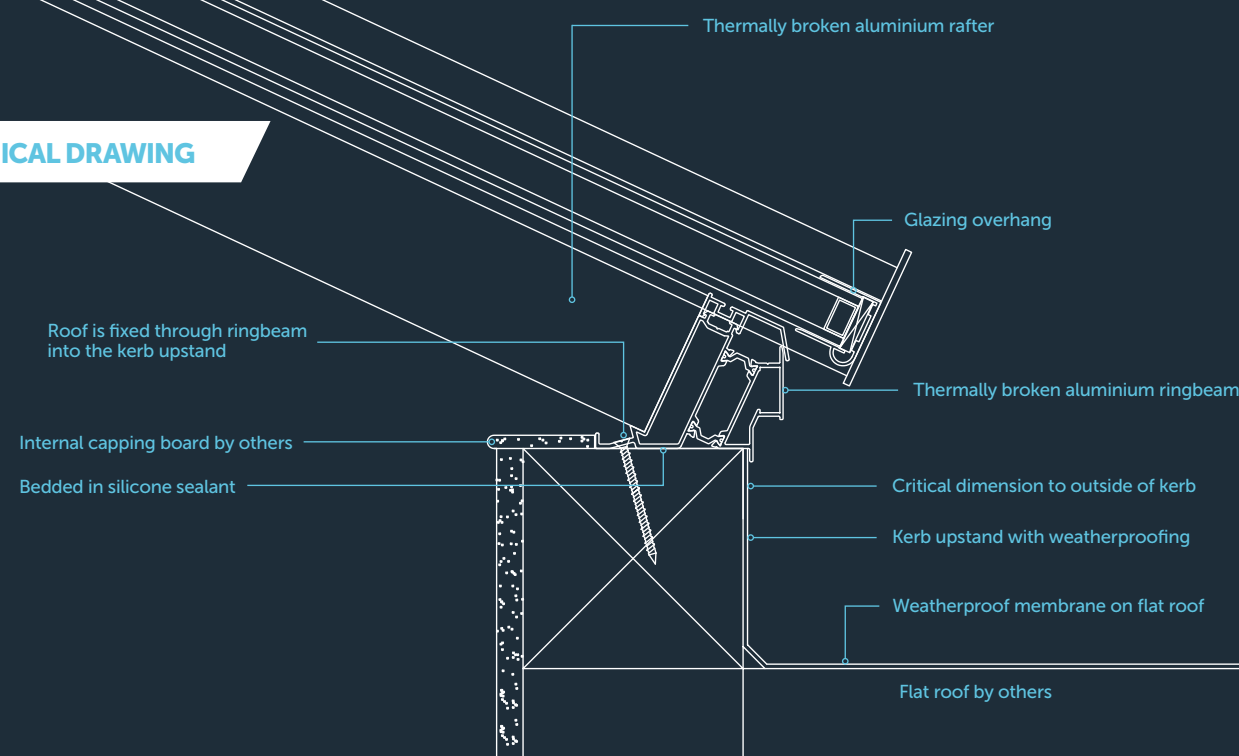
We can create anything you desire with the versatile Atlas roof.

The combination of good design and precision engineering means that Atlas roofs can be fitted in almost every conceivable setting.





## TECHNICAL DRAWING



## IT'S ALL IN THE DETAIL

## ROOF VENTS

Designed to integrate.

Single bay roof vents have been designed to match the roof's slim appearance and are ideally positioned for ventilation.

To retain thermal efficiency and reduce condensation, Atlas roof vents are made up of an aluminium outer frame and PVCu inner frame as standard. A fully aluminium roof vent is also available.

Double roof vents are more commonly seen on older traditional conservatories. The roof vent is capable of spanning up to 1600mm wide.

Choose either a manual or electronic opening roof vent.

### ALUMINIUM ROOF VENT



### PVCu ROOF VENT

## GLASS

### Making your room an all-year-round living space

As standard, your Atlas roof glass will be specified to combine heat reflection and thermal insulation with reduced rainfall and traffic noise.

Low-E and Solar control combination coating, with an argon filled cavity, controls the amount of visible light, UV and heat that passes through the glazed unit. Destructive UV rays are reduced by up to 94%, thus offering protection for furniture and fabrics from sun damage.

With self-cleaning technology as standard, your glass will require less maintenance.

#### Solar control glass

This intelligent glass reflects over 60% of the sun's solar energy, so your new conservatory won't become unbearably hot in summer. Solar glare is reduced too, creating a beautifully ambient environment.

A combination of low emissivity inner glass and argon gas filling means the Atlas solar control glass gives twice the insulation of ordinary double glazing, which reduces energy costs and keeps your conservatory warmer in winter.

Available in neutral, blue and green.

#### Self-cleaning glass

You'll appreciate the special self-clean coating with a microscopic film which helps daylight and rainwater break-down and wash away dirt and grime.

The self-cleaning technology uses both rain and UV light from the sun to efficiently combat dirt and grime that accumulates on the outside of the window. Therefore resulting in the need for manual cleaning being significantly reduced, providing the ideal solution to cleaning those hard to reach or dangerous areas, leaving you with more time to relax and enjoy your conservatory.

### Celsius Elite

The ultimate in performance glass.

Celsius Elite brings the best performance glazing you can get for your roof. With its blue tint and premium abilities, Celsius Elite is our ultimate performance glazing.

### Technical Specification

High technology solutions for today's roofs.

All Atlas roof double glazed units incorporate toughened safety glass and are manufactured to the highest British and European Standards, accredited to BS EN 1279 parts 2 & 3 and BS EN 12150.

	Celsius Elite Glass	Triple Glazing	Double Glazing
U Value	0.9	0.6	1.2
Solar Factor	22%	34%	39%
Visible Light Transmission	34%	46%	52%
Heat Reflection	78%	66%	61%
UV Protection	94%	92%	88%
Easy Clean Coating	Inc	Inc	Inc
Cavity Fill	Argon	Argon	Argon
Blue Tint	Inc	Inc	Inc

Additional glass options are available on request eg acoustic glass and privacy glass



# FLAT ROOFLIGHT

Bring style to your home

Give your home extension more light with the Atlas Flat Rooflight.



## Minimal Sightlines

The minimalistic contemporary external design with flush glazing gives a sleek, modern appearance and is a stunning addition to any home extension.



## Ultimate Performance

Thermal performance is at the forefront of homeowners minds. With an unrivalled double glazing overall U Value (roof and glass) of 1.3 w/m2k the Atlas Flat Rooflight outperforms many of its rivals.

## Maximum Light

The unique aluminium external and internal capping and bespoke structural PVCu internal core make the Atlas Flat Rooflight the ultimate glazed flat rooflight.

Sitting flush with the internal plaster line, the fixed flat rooflight appears frameless from the interior of the home, creating the illusion of an open roof space.



# CONSERVATORIES

## Less is more

Atlas conservatory roofs offer an ultra slim frame, minimalist internal design and superb thermal performance, making Atlas an unrivalled choice for all homes.

Manufactured to your exact specifications the Atlas conservatory roof will change the way you look at conservatory roofs.



“NO CHUNKY HOODS OR LOW SUPPORT BARS –  
**SHEER GENIUS**”



Unlike traditional conservatory roofs which can be cluttered by low hanging bars, oversized ridges and obtrusive ridge ends, and poor thermal efficiency, the Atlas roof benefits from a 70% slimmer ridge with the hidden or subtle bars – more glass, less roof and unrivalled thermal efficiency.

Your retailer will have the knowledge and expertise to help you decide which style and specification will suit your home and budget.

By offering **MORE SKY – LESS ROOFTM** with a thinner, lighter, and stronger structure, the Atlas roof is a fantastic solution for upgrading your conservatory.





# LEAN-TO



## Changing the shape of conservatories

A lean-to is an ideal alternative to a traditional conservatory and adds a sleek and modern design to any home.



“ A MODERN TAKE ON THE CONSERVATORY ”



Perfect for creating additional space, the single sloped Atlas lean-to can be any width and can project into your garden for up to about four metres. The Atlas lean-to can be installed just about anywhere.

It is the perfect style for bi-fold doors so you can dramatically open up your home to your garden. The variable roof pitch gives you a huge choice of looks, from fitting it under the first floor window ledges or right up to the eaves. Clean lines and minimal fuss.



# VERANDAS

## Outdoor Lifestyle & Luxury

Add a whole new living space that transforms the outside of your property and, combined with bi-folding or sliding doors, extends your living space into your garden area with a stylish Atlas veranda.



“  
OPEN UP  
YOUR LIVING  
SPACE INTO  
THE GARDEN  
WITH AN **ATLAS**  
**VERANDA**”



This versatile covered space allows you to enjoy the outdoors all year round, bringing al fresco living to your lifestyle and adding value to your home

- A flexible outdoor living space
- A permanent cover for your patio area
- Perfect for al fresco dining and entertaining
- Custom built to your specification



# SKYROOM



## THE NEXT GENERATION OF ORANGERY LIVING

The Skyroom cleverly bridges the gap between a conservatory and a high-end orangery and is at the height of innovative contemporary design.

The look of an orangery with no imitation features to detract from its good looks and its ultra-slim roof allows you to see **MORE SKY – LESS ROOF™**.





# SKYROOM

The experienced engineers at Atlas have cleverly created a roof which acts as a traditional conservatory but looks like an opulent orangery.

An orangery has a number of features which make it more luxurious than a traditional conservatory. The secret to the Skyroom's realistic internal appearance is the solid internal pelmet which instantly changes the look of the room, and with spotlights added you can create the perfect evening lighting. Second to this is the appearance of the roof sitting on the pelmet (much like a lantern roof on an orangery).

The accurate orangery features make the Skyroom the ultimate choice in modern living. Its 300mm high aluminium contemporary fascia gives the Skyroom the realistic appearance of a contemporary ultra slim orangery lantern both inside and out.

With no unsightly low rod bars or bulky joint covers cluttering the roof, the Skyroom guarantees excellent headroom and no intrusion into the room.

Thanks to a Atlas's signature 70% slimmer ridge and 30% slimmer rafter, the Skyroom blends design aesthetics, outstanding strength and unrivalled thermal performance – all under one orangery style roof.

The Skyroom is a unique product and nothing else on the market looks quite like it.



“

COMBINING  
**LUXURIOUS  
STYLE** AND  
UNIQUE MODERN  
AESTHETICS WITH  
SUPERIOR AERIAL  
VIEWS. ”







**MORE SKY**  
**LESS ROOF™**





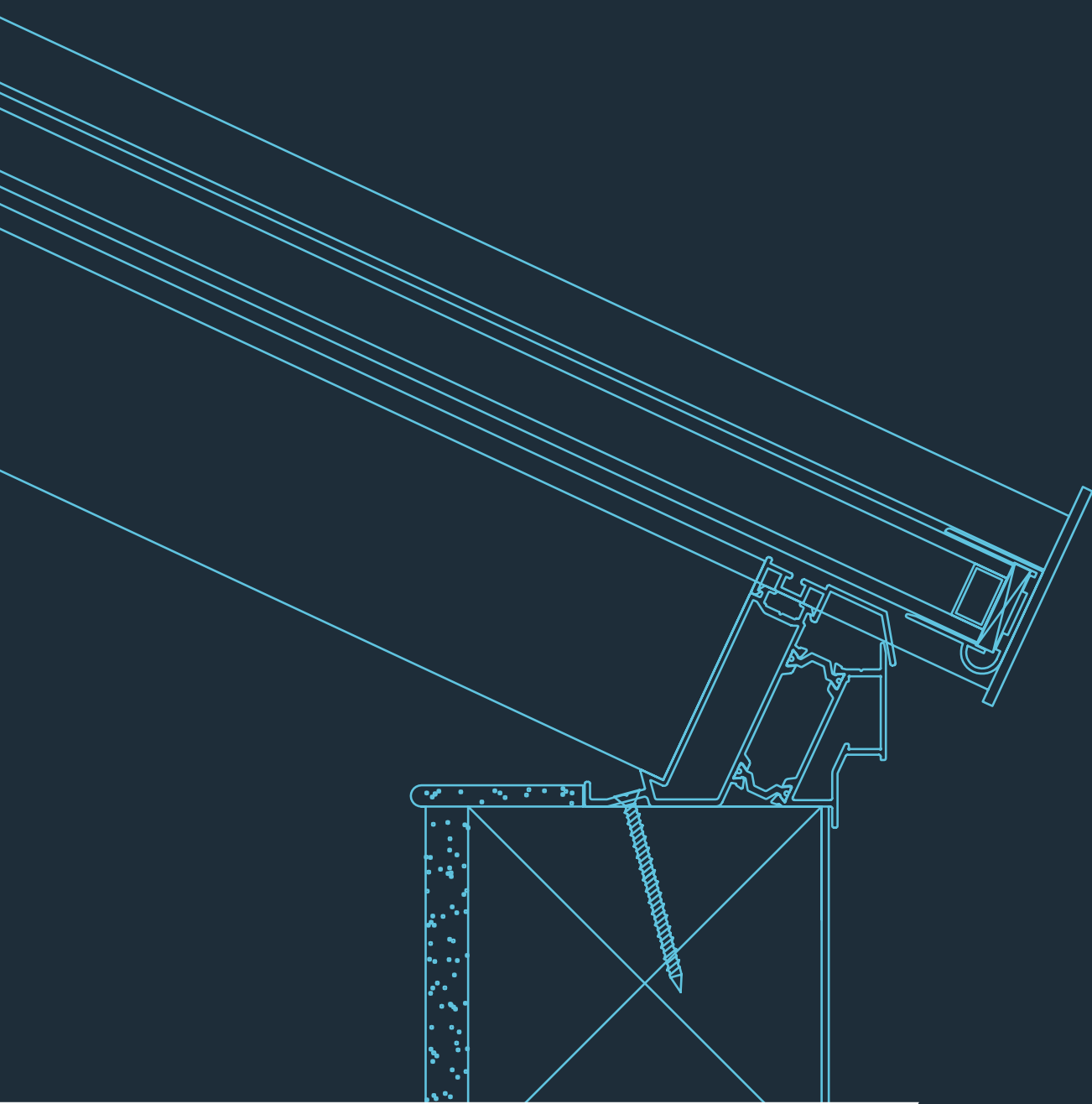


# ATLAS

**MORE SKY LESS ROOF™**

[WWW.ATLASROOFSOLUTIONS.CO.UK](http://WWW.ATLASROOFSOLUTIONS.CO.UK)





# ATLAS LANTERN INSTALLATION GUIDE

**ATLAS**  
MORE SKY LESS ROOF™






WELCOME TO THE  
ATLAS LANTERN  
INSTALLATION GUIDE


This installation guide will ensure the quick and easy assembly of your Atlas lantern. It takes you through each stage of installation step by step, with sections on general installation, roof vent installation, bell rafter installation and hidden tie bar installation.

We recommend you spend a little time reading through this guide before you start, to give you an understanding of the roof structure, then follow each step carefully to avoid complications later.


TOOLS YOU'LL NEED:




Sealant




Battery Driver




Rubber Mallet



Tape Measure



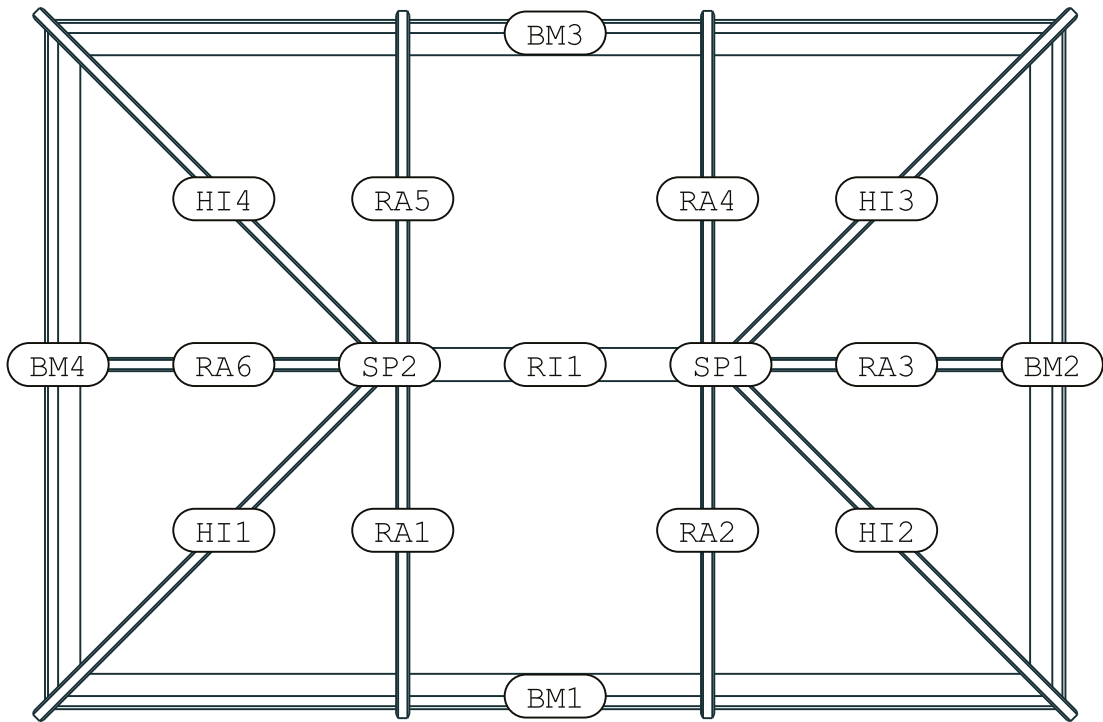
Star Head Screw Bit

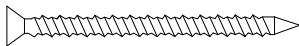





5 & 6mm Drill Bit

LANTERN  
ILLUSTRATION

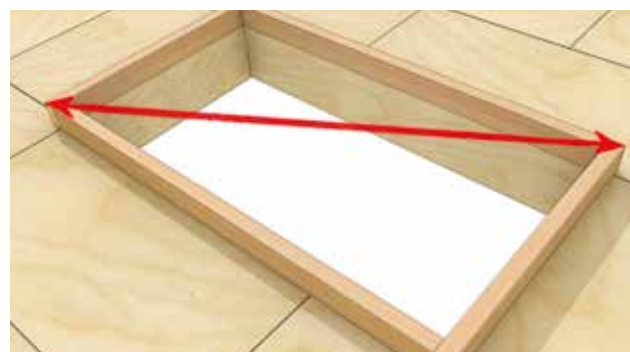
To help with installation, the main lantern components have been numbered and lettered. These correspond with the drawings found in your kit instructions, and will look like the image below. Please take care to follow the image in your kit, not the image below.



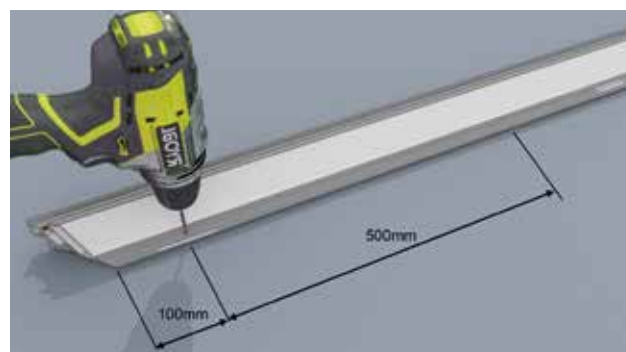
Screw Description	Location
 REF 4.2 X 45mm	Screws for fixing pressure plates
 REF 4.8 x 19mm	Screws are fixed through the ringbeam to join the ringbeams together at the corners
 REF 4.8 x 50mm	Screws to fix the bottom of transom rafters to the ringbeam
 REF 4.2 x 25mm	Screws to fix top and bottom of hip rafters



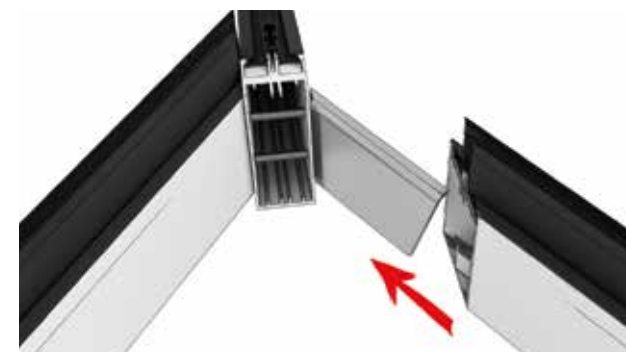
# INSTRUCTION DETAIL



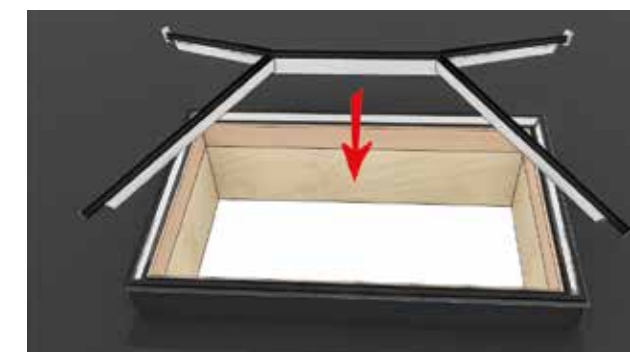
**1** Ensure that the kerb upstand by others is square by checking the diagonals.



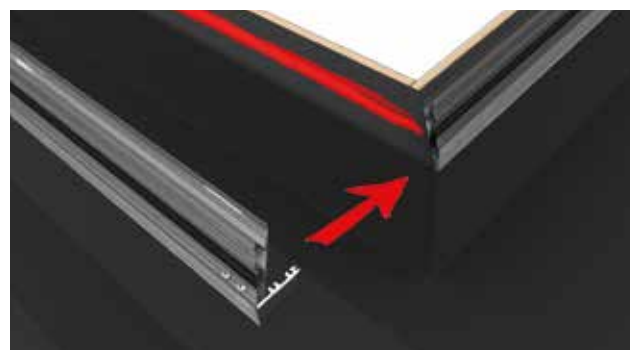
**2** Pre-drill the ringbeam as shown, 100mm from the corners and then at 500mm centres.



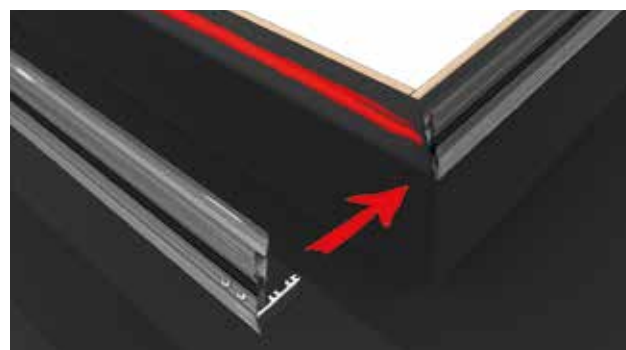
**7** Slide the hip rafters over the pre-fitted hip brackets as shown. If a central bell rafter is specified, hip brackets will not be installed and instead the ridge will be slotted. See 'Bell rafter installation' prior to continuing.



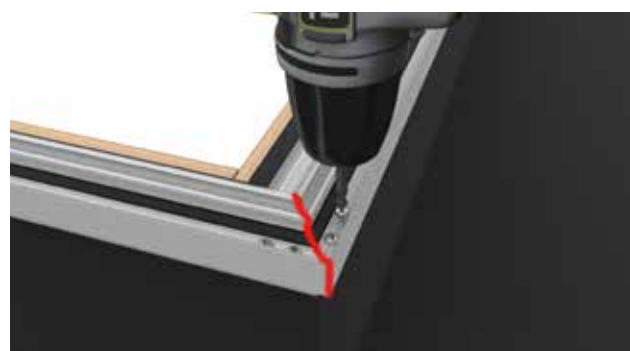
**8** Position assembled frame onto ringbeam, pushing the hips down into place.



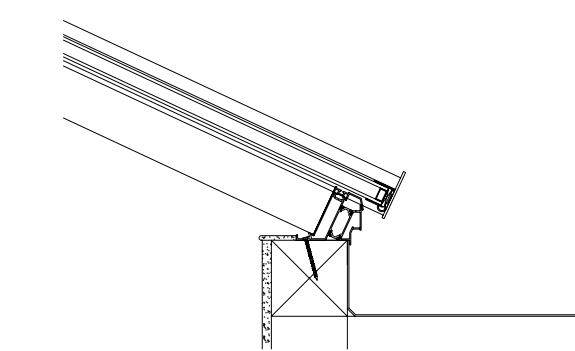
**3** Apply a generous bead of sealant to the top of the kerb upstand.



**4** Lay the ringbeam out in accordance with the lengths of the kerb upstand and locate the adjacent cleat into the mating ringbeam. Apply sealant to the cut ends of the ringbeam.



**5** Using the 4.8 x 19mm screws provided, screw through the pre-drilled holes into the cleat to secure.



**6** Fix down the ringbeam through the pre-drilled holes using an appropriate fixing (recommended minimum of Ø6mm x 50mm).

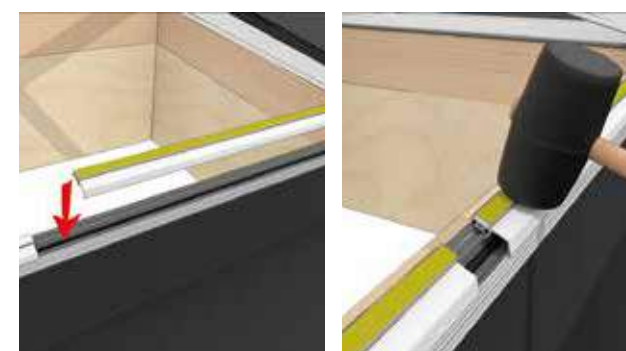
Note: fixing screws not provided



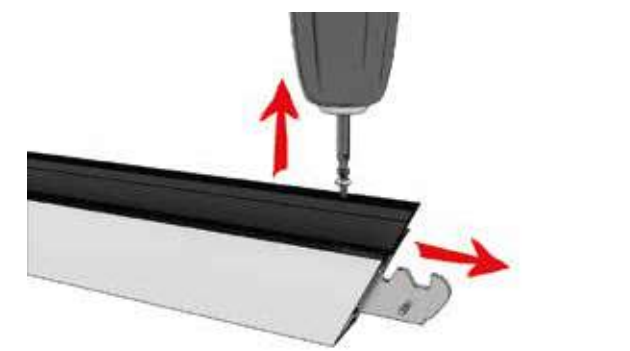
**9** Push the joint tight against the ridge and fix down through the rafter with the screw approximately 25mm from the top 4.2 x 25mm screw. Repeat on the opposite side.



**10** Fix hips into the ringbeam using the 4.2 x 25mm screws on either side of the rafter as shown.

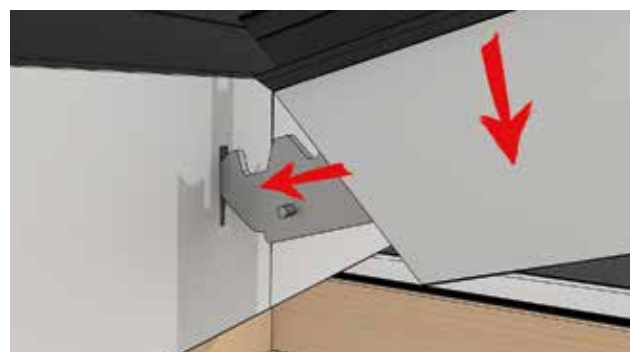


**11** Fit supplied glazing support trim. If central transom rafters are specified, push the trim up against the hip which will set the position of the transom.



**12** Slightly unscrew the fixing in the transom rafter to release the connection bracket.





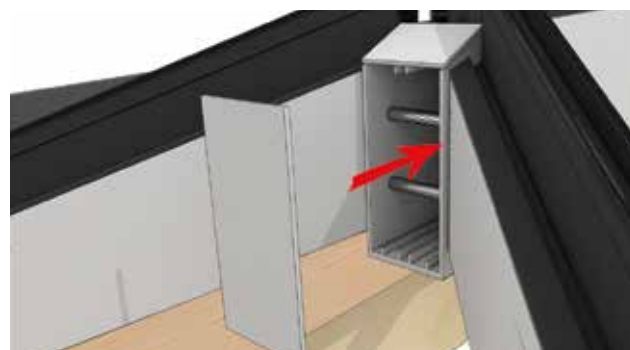
**13** Lift transom rafter and offer the bracket up to the slot in the ridge at an angle. Insert the bracket and then rotate the rafter into position at the ringbeam.



**14** Re-tighten the screw in the top of the transom rafter which will pull the joint together and secure.



**15** Check that the rafter is square to the ringbeam. Fix the 4.8 x 50mm screw supplied centrally through the bottom of the transom rafter as shown to secure the rafter.



**16** Using a small bead of sealant, apply to the rear of the ridge end closer plate and secure to the cut end of the ridge as shown.



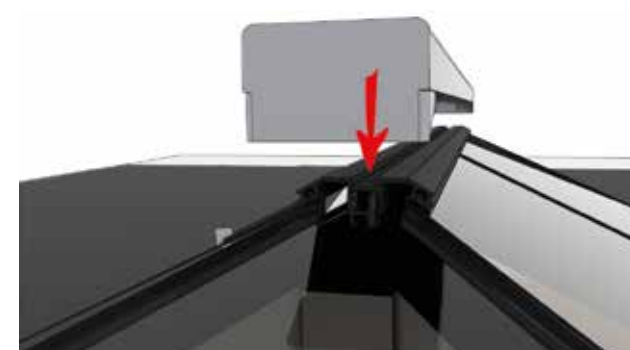
**17** Apply a bead of sealant to glazing end closer and fit centrally to glass units.



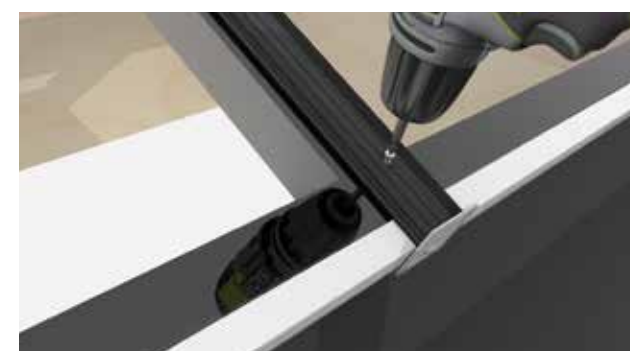
**18** Peel back the corner of the glazing tape and remove.



**19** Fit glazing around the roof following the roof plan and sit against the lower endcaps. If a roof vent has been specified, follow roof vent installation. Apply pressure to the adhesive of the glazing tape to secure the glass.

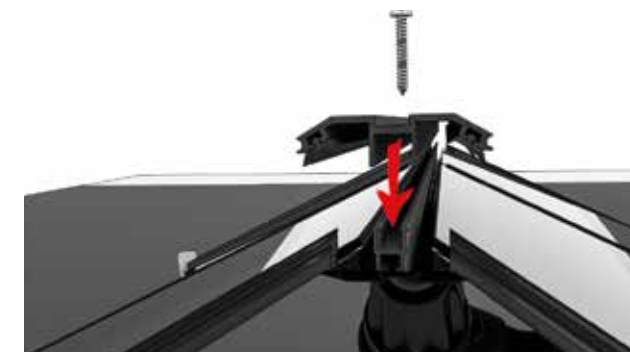


**21** Fit the ridge top cap in place by centralising and applying pressure from one end to the other. A rubber mallet may be required.

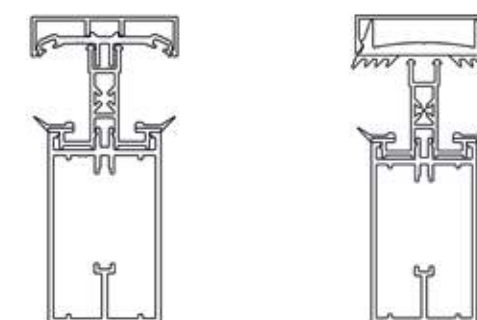


**23** Screw down into the rafter through the pre-drilled holes in the pressure plates using the 4.2 x 45mm screws. Repeat for all the rafters.

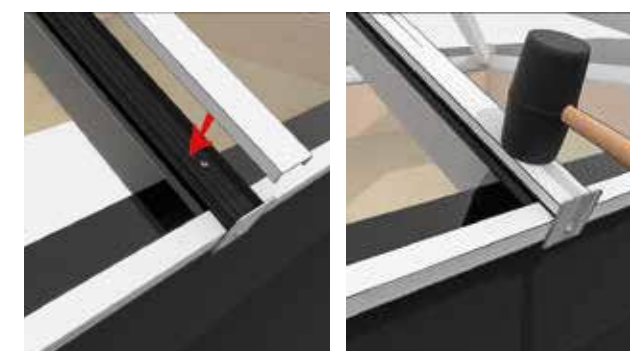
Note: Drill an additional 5mm hole and add a pressure plate screw. Always add a pressure plate screw through the pressure plate in line with the double-sided tape to help compress the glass to the tape.



**20** Fit the ridge pressure plate by centralising on the ridge and then screwing down using the 4.2 x 45mm screws through the pre-drilled holes.



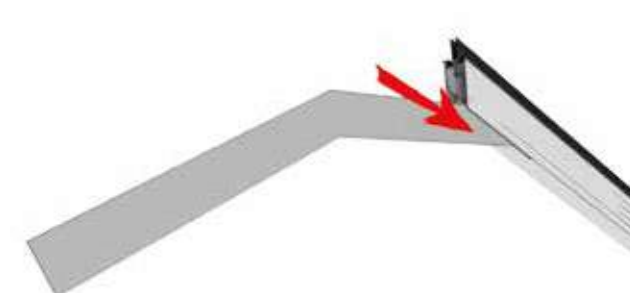
**22** Fit hip and transom pressure plates **centrally on the rafter** (hips will locate into the central channel on the rafter). Ensure that pressure plates are pushed up against the side of the ridge topcap.



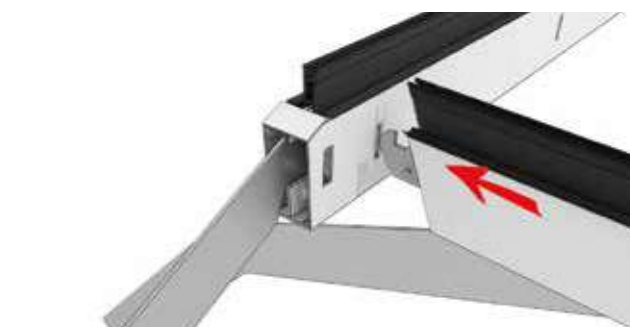
**24** Fit all the rafter topcaps according to the correct cut length and roof plan position. Locate over the top of the pressure plate and push down. A rubber mallet may be required.



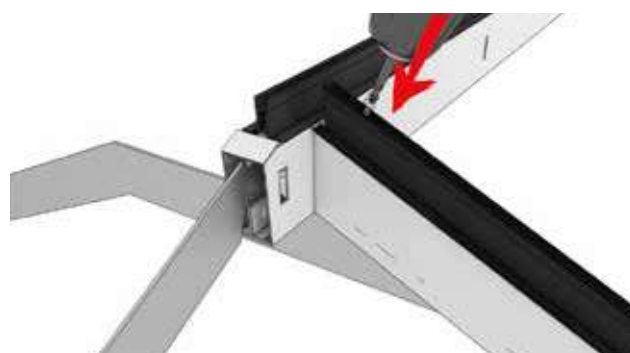
## HIDDEN TIE BAR INSTALLATION



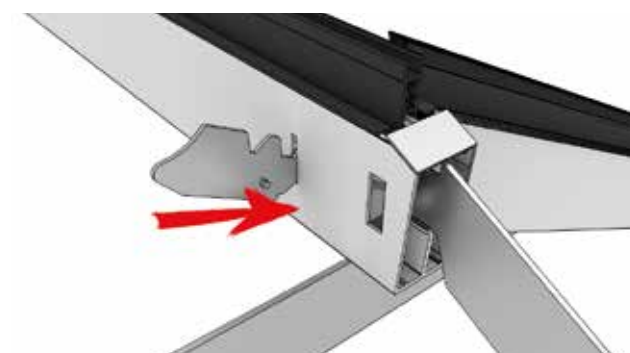
**1** Insert tie bar bracket into the side of one of the central rafters.



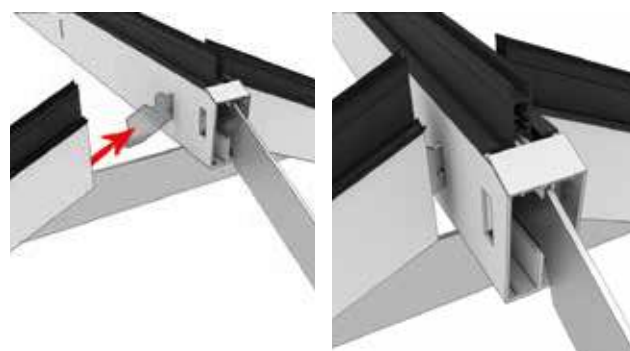
**2** Loosen retaining screw from transom connection bracket so that it can move freely and insert transom bracket into slot in the ridge.



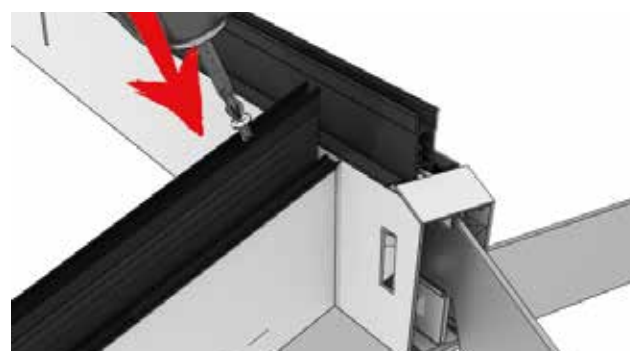
**3** Re-tighten bracket retention screw to pull the joint tight.



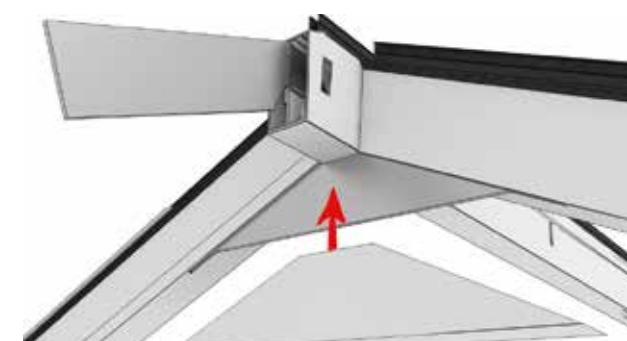
**4** Insert the transom connection bracket into the slot in the opposite side of the ridge.



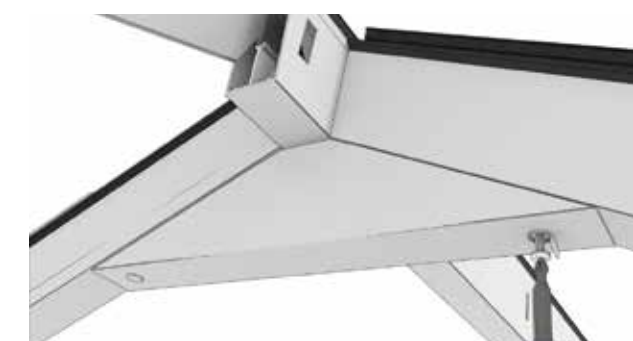
**5** Slide the opposite transom rafter over the bracket and push against the ridge.



**6** Secure with the retention screw as per the opposite side.

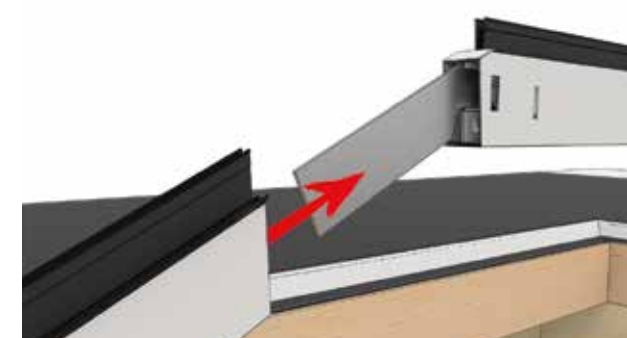


**7** Locate the gusset plate over the tie bar.



**8** Secure in pre-drilled holes with supplied 5 x 70mm screws and fit cap covers.

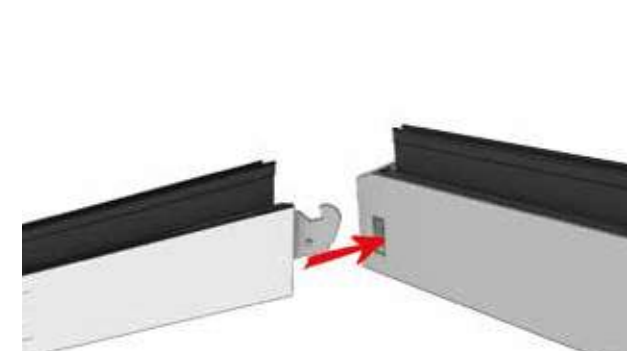
## BELL RAFTER INSTALLATION



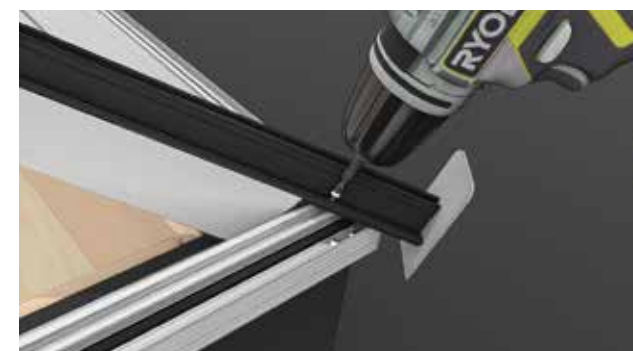
**1** Slide central bell rafter over the factory-fitted bracket.



**2** Secure the bell rafter using the pre-fitted retention screw.



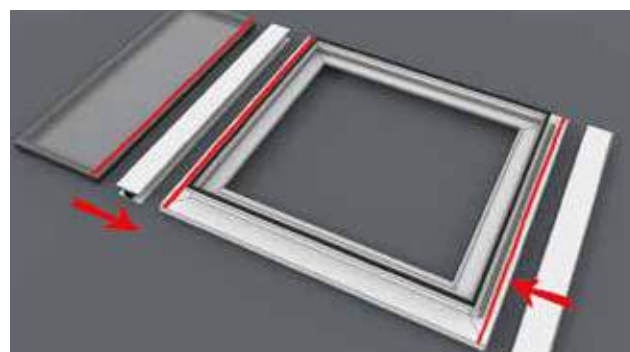
**3** Loosen retention screws in hips and insert the connection brackets into the wider machined slots in the side of the ridge. Return to step 8, fitting the framework into the ringbeam, pushing down the hips to tighten the joints. Tighten retention screws.



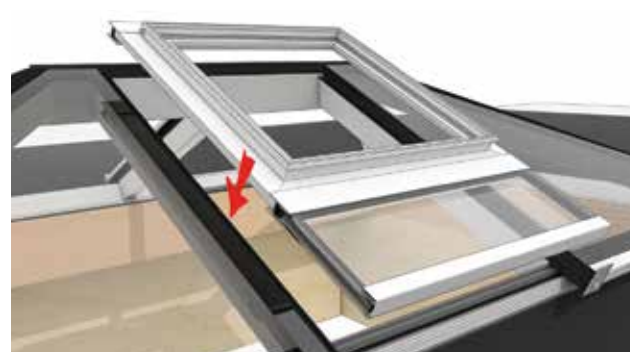
**4** Fix hips into ringbeam using the provided 4.2 x 25mm fixings on either side of the rafter as shown.



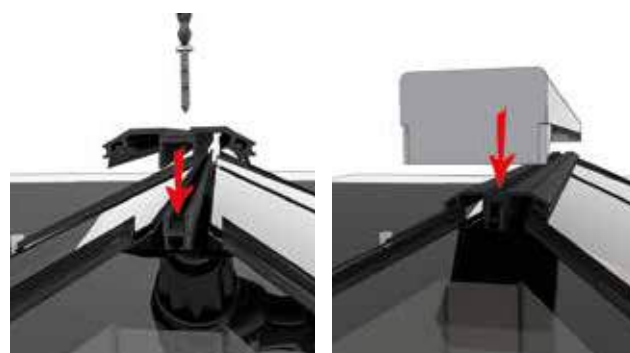
# ROOF VENT INSTALLATION



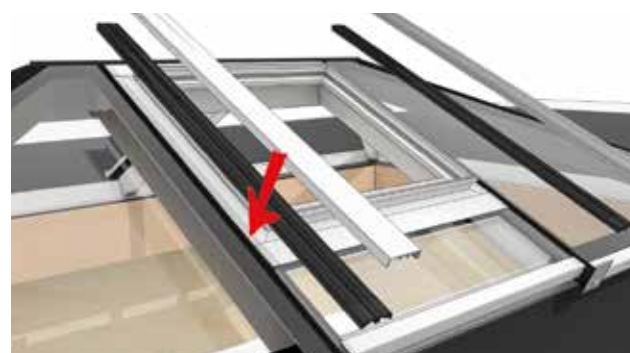
**1** Apply sealant to upper face of both the glazed unit and vent and assemble to the muntin profiles as shown.



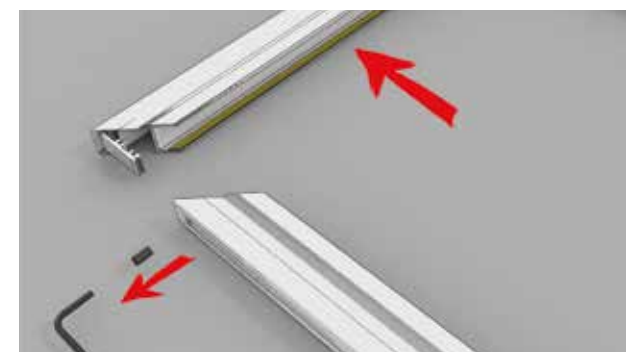
**2** Install the assembled vent base and glazed units between the transom rafters behind the rafter endcaps.



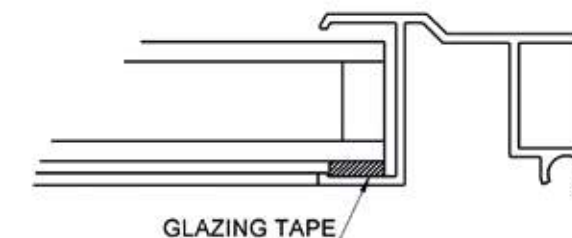
**3** Fit ridge pressure plate and topcap.



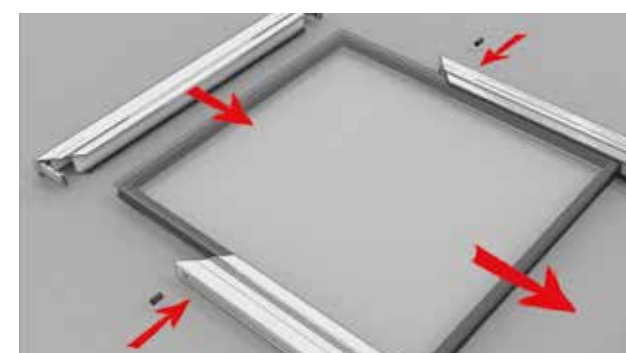
**4** Fit transom pressure plates, screwing into place through the pre-drilled holes. Fit rafter topcaps.



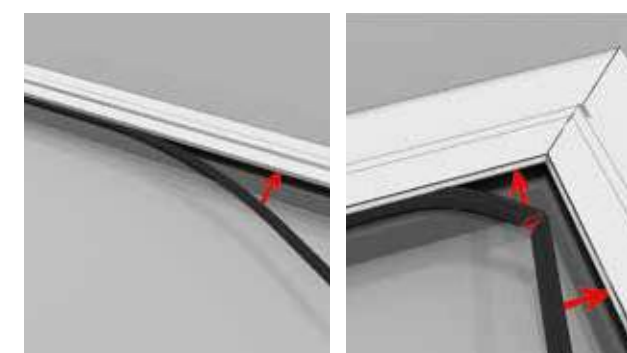
**5** Remove grub screws from the sides of the vent sash and remove one side as shown.



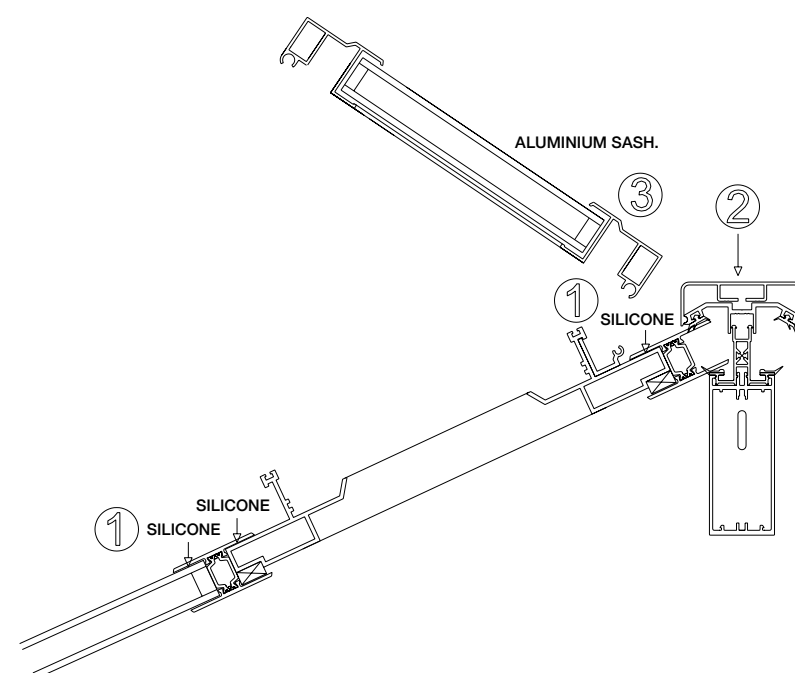
**6** Remove protective film from the glazing tape on the sash profile.



**7** Fit glazed unit into the sash frame and re-fit the removed side of the sash framework, securing with the grub screws.



**8** Starting from a corner, apply the wedge gasket to the opposite side of the vent sash (to the glazing tape), notching the corners to allow the gasket to fit tight into the corners of the framework.



**9** Fit vent sash to the vent base by locating the channel in the sash profile into the 2 pivot profiles on either end of the vent base as shown. The sash should be offered at approximately 60° to engage correctly.

**10** Locate and install the spindle or actuator, securing in place with the supplied fixings.





# ATLAS LANTERN

## INSTALLATION GUIDE

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