

DEAR TRADE PARTNER OR CONSERVATORY BUYER.

The Ultraframe roof is the market leader, having established itself in 1983 and having continuously serviced the conservatory industry for all that time. Through constant and consistent innovation, the Ultraframe Classic roof brand has led the way.



WEATHER TESTED

Watertight in winds up to 130mph

- Triple layer storm shield at radius end.
- Unique double skin top caps and adjustable speedlocks designed to optimise glazing bar compression.
- Sturdiest, most durable gaskets and glazing stops.



EASIEST

The simple and most intuitive to fit

- · Click-fit speedlocks and top-caps.
- Loaded with features for a **fast fit, first time,** every time.
- · No cutting or drilling on site.
- · Comprehensive installation guides and videos.



VERSATILE

The most configurable roofing system available

- Low pitch eaves beam and variable ridges for pitches from 2.5 to 40.9°.
- Advanced software to instantly validate structural requirements of any large shape and complex designs.
- Integrated structural solutions for large spans of bifolding doors.



TRUSTED

The original and most loved glazed roof

- Over 1.5 millions roofs installed.
- The first roofing system to be approved by BBA.
- Made in Britain for over 35 years.



SAFEST

The only roof engineered to postcode

- NASA satellite data used to calculate the maximum wind AND snow load requirements.
- Specialist software engineers every critical element of the roof for optimum deflection, compression and tension.
- Super strong eaves beam, ridge, valley and jack rafter.



CUSTOMISABLE

Unbeatable range of design options

- Add shape and elegance externally with a choice of 4 unique Cornices.
- Create thermally efficient, cosy and stylish rooms with insulated pelmets and columns.
- Bespoke colours in painted aluminium or foiled.
- Finishings and crestings to suit all tastes and budgets.

OUR DESIGN PHILOSOPHY

For over 30 years Ultraframe has been dedicated to designing and manufacturing conservatory roofs. In that time we have supplied approaching 1½ million roofs, not only to all corners of the UK, but to countries with even more extreme climates like Russia and the USA.



But there is more to Ultraframe than just our superbly performing roofs. There is the quality marketing support and promotional materials that only the market leader can deliver. On this and the next few pages are just a few examples of the items that make using and choosing the Ultraframe brand a truly positive experience.



STRUCTURAL DESIGN GUIDELINES

Ultraframe – as the market leading brand – wants to ensure that its customers and users are working to the best codes/design standards. Most domestic conservatories are exempt from Building Regulations and so most of the time a conservatory didn't need to comply with BS6399 but Ultraframe's brand positioning was that each roof was designed to a postcode and was more than fit for purpose (peace of mind). BS6399 has now been superseded by Eurocodes and Ultraframe is now working to these.

By updating to Eurocodes we are ensuring the roof stay ahead of competitors and continues to be well positioned should for example CE Marking become mandatory on the roof in the future

Ultraframe uses software called U-Design inside which is an electronic rule book of structural guidelines called eSDG. The eSDG has been updated to include;

- Eurocodes now in place of BS 6399 which is obsolete.
- BreVe (which supplies the weather data inside eSDG) has finally fully adopted the Eurocodes and therefore the wind and snow loading they provide into U-Design has also been updated.
- The wind and snow loads in Eurocode are calculated differently and have also been revised with more updated average wind and ground snow loads in the UK. Previously BS6399 used a General Design approach which meant looking at the maximum wind speeds over a large area around the site which meant that the loads could be larger than necessary. Eurocode uses a directional approach based on the average mean wind speed and probability factor of exceeding this. The calculated wind load using this method is lower. We have looked at a number of different postcodes around the UK (a mixture of city centre, town outskirt, countryside and coastal locations) and have looked at the current output on the SDG and compared this with the new outputs. In all instances the wind load has reduced.

CERTIFICATE OF AUTHENTICITY

Conservatory roofs are sent to site with a registration form that the fitter passes to the homeowner, who then registers with Ultraframe and in return receives a 'Certificate of Authenticity', confirming that they have had the genuine Ultraframe product installed. They also receive a FREE conservatory maintenance manual with hints and tips on how to care for the new conservatory.



We rigorously tested our roof and alternatives - ask for the DVD of the aero engine at the Wintech Test Centre

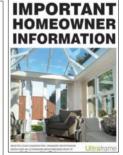


BreVe has also changed how they locate postcode data.
 Previously they used information from Ordnance Survey and now they are obtaining this from NASA. In addition they have improved the way they pinpoint this information making the information more accurate. This means that some altitudes will change which affects the snow load calculations.

ADDITIONAL NOTES:

- 1. This means that roof projects are now more accurately specified for loads than before - this does not mean that we were wrong before just that we have improved the way the loads are calculated based on the latest information available.
- 2. As with BS6399, the software is looking at the loadings and the specification of the roof only, not the whole structure.
- 3. There is a distinct possibility that a roof MAY have a lower cost now based on Eurocodes than previously.





AS PART OF OUR PHILOSOPHY...

We want to make trading between our trade partners and us, easy and error free. That's why our vision is to receive orders electronically from our trade partners. In fact, we encourage our partners to design a conservatory in the home or showroom, structurally prove it and 'fire it' through for computerised manufacturing, virtually untouched by human hands!

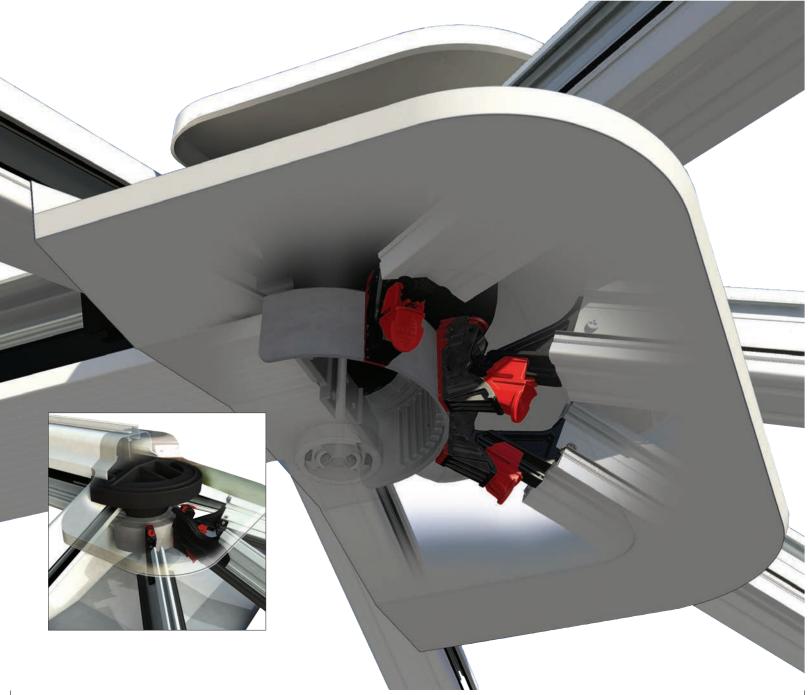
THE CLASSIC SYSTEM - RIDGE

The Classic main ridge can accommodate a pitch range of between 15-40° and 45° on gable designs, it is ventilated as standard through the ridge or wallplate. (see page 21 for further details)

FEATURES

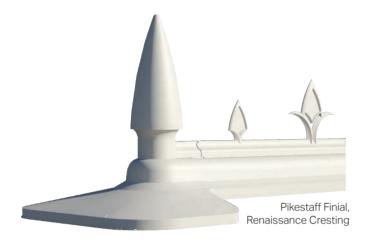
At the intersection with the host wall, the Classic system features an integrated flashing trim to ensure rain water is shed away from this area. At the other end of the ridge, it features a geometrically correct 'hub' arrangement, which allows placement of glazing bars to create perfect alignment of the glazing material. Second generation speedloks take care of the engagement of the bars into the die cast aluminium hub. A weatherproof secondary 'tray' sits over the die cast hub and fits snugly under the PVCu end cover.





PVCU CRESTINGS AND FINIALS

A choice of five different PVCu finials and six crestings allows you to personalise the conservatory. Whichever style of cresting and finial combination chosen, rest assured the Ultraframe roof will be stylish and weatherproof.









Classic Finial*, Classic Cresting

Classic Finial*, Baroque Cresting

Coronet Finial*, Tudor Cresting







Sceptre Finial*, Elizabethan Cresting

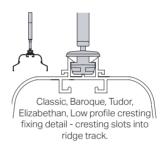
Ball Finial, Low Profile Cresting

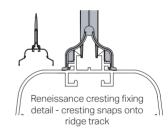
Low Profile Ridge / Cresting

The Pikestaff finial and Renaissance cresting feature additional benefits over the other PVCu finial/cresting options:

- EASY RUN A streamlined body shape to help rainwater run off
- EASY FITTING The cresting simply snaps over the existing track on the extruded ridge body, making it easier to fit.
- EASY CLEAN PVCu which stays clean longer and makes cleaning easier.
- Whichever of the options you choose, they are included in the roof price.

TECHNICAL SPECIFICATION





VENTILATED HALF RIDGE ASSEMBLY

This option is always specified on complex shaped roofs like 'P' or 'T' shapes. It can be specified for standard lean to roofs. (Upgrade option)



WALL PLATE ASSEMBLY

Selected as standard (ventilated) for basic lean to specification.



Unventilated low rise wall plate for certain situations



THE CLASSIC SYSTEM - GLAZING BARS

Glazing bars exist as 'suites' - with different shaped bars for differing applications. The wineglass aluminium profile is designed for maximum torsional rigidity and to resist both compression and wind uplift forces. Light and heavy versions of the aluminium exist.



A twin bolt slides into the captivated bolt slot in the eaves beam, prior to the glazing bar being tightened down.



Vic/Transom glazing bars come in heavy, medium and light versions

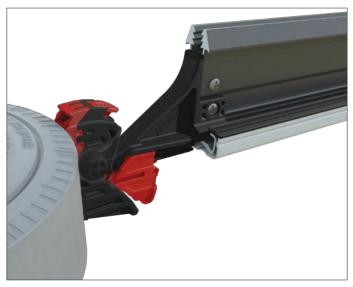
SPECIFICATION

Glazing bars attach to the die cast aluminium ridge hub using Speedloks - click lock devices that allow speedy yet secure attachment.

The hub end can accommodate a maximum number of bars before the configuration software triggers the substitution of inter-rafters (see page 11).

Onto the aluminium glazing bars are attached PVCu chambered external top caps - the Classic roof also has a range of powder coated aluminium external claddings - see p30/31.

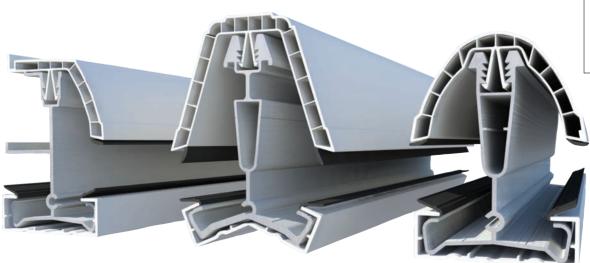
The chambered top caps are more insulated than alternative suppliers standard single wall variants and are more resistant to the warping and twisting effect of solar heat gain, particularly when the roof is supplied in a dark colour.



Bar with speedlok attachment - ensures perfect glazing alignment.

GLAZING BAR TYPES - PVCU CHAMBERED TOP CAPS

See p30 - 31 for powder coated aluminium top caps

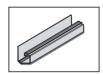


Starter - Chambered Capping

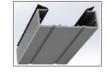
Georgian - Chambered Capping

Vic/Transom - Chambered Capping - main picture features Dome, bevelled version also available see inset.



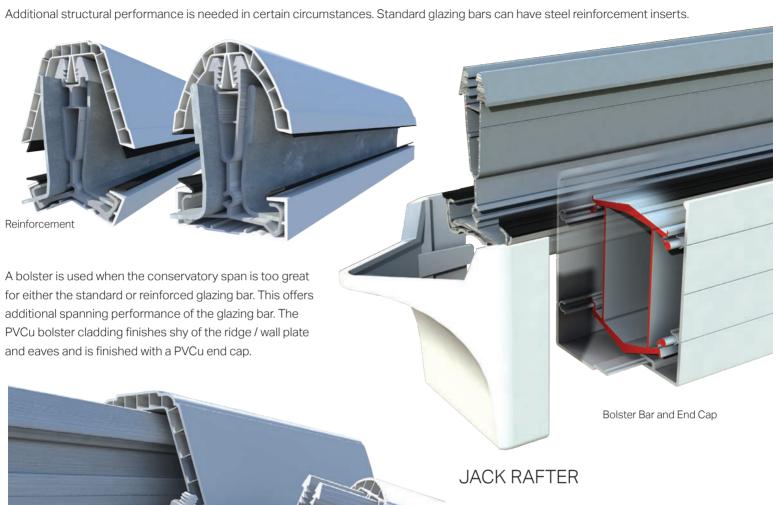


Optional soaker sits in starter bar - see p22



Since Feb 2016, the standard/default under cladding is DSBC

RE - INFORCED BARS AND BOLSTERS



A key component in the long term performance of a Classic roof. Triple fixing of sleeved tenon provides robust performance. Joint design resists both positive and negative loadings.

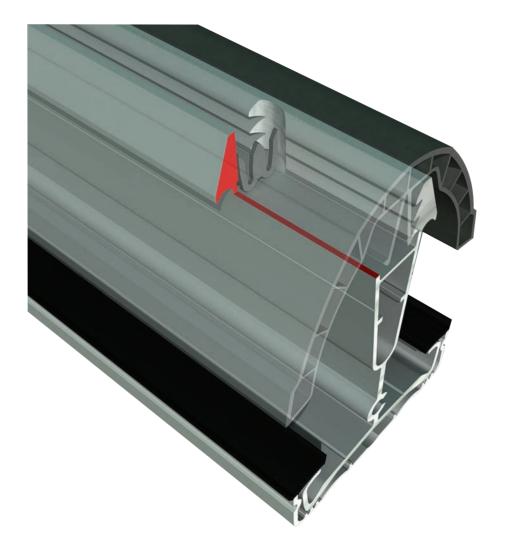
INTER - RAFTER

When the roof design calls for a large number of bars to terminate at the ridge, the inter - rafter is the solution.

The inter-rafter is a glazing bar that terminates shy of the ridge end, taking its support from two adjacent bars

THE CLASSIC SYSTEM - GLAZING BARS

A natural characteristic of a roof consisting of an aluminium core with PVCu top caps is that these materials expand and contract by differing amounts. The anchor clip controls the point at which movement occurs to maintain the critical weather tight seal at the upslope (ridge) end to move at the bottom of the roof, in the gutter zone.





Whilst all roofing systems have this issue, Ultraframe are the only company to provide its customers with a tried, tested and patented solution to give long term peace of mind.

The Anchor Clip can be used with all of Ultraframe's suites of PVCu top caps.

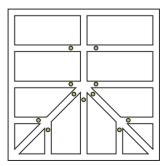
ANCHOR CLIP SPECIFICATION

Anchor Clips are specified as standard and work in tandem with Ultraframe's existing product technology. Glazing bars are prepped at the ridge end of the slope by the factory insertion of a hole through the teeth in the aluminium bar into which is inserted a clip. The anchor clip grabs the barbs of the PVCu top cap. Jack rafters are also fitted with anchor clips.



Factory inserted routed hole

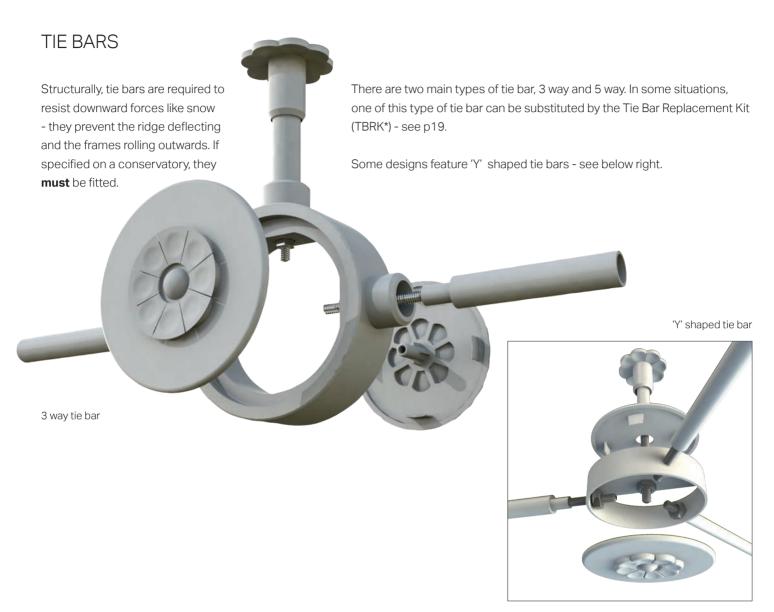
Factory inserted Anchor Clip



Typical anchor clip positions

Section 4

THE CLASSIC SYSTEM - GLAZING BARS



GLAZING RETENTION CLIPS

Whether polycarbonate or 24mm sealed units, retention clips are automatically specified to ensure that the chance of glazing panel slip is eliminated.





Sealed Unit Retention Kits



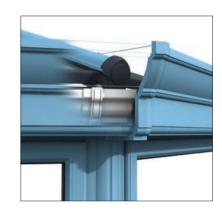
THE CLASSIC SYSTEM - STANDARD EAVES

The standard eaves beam for the Classic System is a high strength one piece aluminium extrusion. It can accommodate pitches between 5° - 45°. See page 15 for a super duty version and page 16 for a version that can be used between 2½° - 5° pitch.



CURVED CORNICE

The Ultraframe Classic Aluminium suite is the only aluminium suite on the market which offers a decorative aluminium Cornice option using the existing gutter as a hidden 'liner'. Cornice includes a die cast 135 and 90 degree corner cover and straight jointers, which will help fitters achieve a consistent fit and finish at critical junctions.



The system can be used with window frames sizes starting from 58mm and the frames can be timber, aluminium or PVCu.

To clad off the aluminium eaves beam is a standard 'V' groove fascia which provides clean and simple lines - or upgrade to the Ultraselect fascia and choose from a decorative insert (white only) - see below.

The Classic system uses an 'ogee' profiled gutter along with proprietory clip fit gutter/eaves brackets. Square or round rain water down pipes can be chosen.

For those who want the ultimate in aesthetic options, the aluminium Cornice is available and hides the PVCu gutter and glazing bar end caps.





A special eaves beam is specified on lantern roofs or when requested, for timber kerbed roof lights / atriums.

FASCIA BOARD OPTIONS

Standard



Standard default fascia on built up Classic Roofs – White, woodgrain and foils (includes standard colours e.g. grey, cream).

Optional upgrades



SFI003 Tapestry insert is only available in white & deeplas.



The DFT one piece fascia is available in white and woodgrains.

Section 5

THE CLASSIC SYSTEM - SUPER DUTY EAVES

The Super Duty Eaves Beam should be specified where additional spanning performance is needed, allowing confident specification of folding/sliding doors (or indeed any type of opening such as in-line sliders).



Internal Frame/Setout

38mm

25mm

Standard Eaves Beam illustrated with Ultraframe's recommended means of installation, the Vic fixing kit (optional extra).

Section 1

Super Duty Eaves Beam - Vic fixing kit is not suitable in this application.

Super Duty Eaves Beam Charts - Refer to page 5 of the Super Duty Eave Beam & Aluminium folding/sliding doors Technology Guide for spanning performance.

TECHNICAL SPECIFICATION SUPER DUTY EAVES BEAM

- Structural 'beefier' aluminium profile that uses existing
 PVCu components to clad and cap for optimum performance
- Sits 38mm taller than the standard eaves beam (remember this when calculating overall ridge heights).
- Needs to be specified all the way round the nominated conservatory and NOT simply on the facet into which the doors are to be fitted.
- Readily interfaces with box gutters and Gable Support Beam, to offer maximum integration and configurability
- Ultraframe's span charts need to be studied carefully BEFORE conservatory selling and design starts... the elevation into which the doors are to be fitted, the style of conservatory and the 'span onto' dimension all affect the maximum allowable width of opening when using the Super Duty Eaves Beam.
- If a conservatory design requires an opening width greater than that which
 can be offered with the Super Duty Eaves beam, then a portal/goalpost
 arrangement will be needed Ultraframe can provide a custom solution.



If the loading conditions are more onerous than the Super Duty Eaves Beam can cater for, a goalpost arrangement is then specified.

THE CLASSIC SYSTEM - LOW PITCH EAVES

if the Classic roof is required between 2.5 - 5° pitch, then in place of the standard Classic eaves beam it uses one that sits lower. It features a simple 'flowline' gutter too in place of the standard 'ogee' gutter.

TECHNICAL SPECIFICATION LOW PITCH EAVES BEAM

- For use between 2.5° to 5°- can be specified up to 10°
- Structural firrings at 2.5° and 5° are available
- Suitable for raked frames too





Section 5

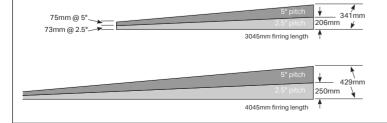
THESE ITEMS RELATE SPECIFICALLY TO THE LOW PITCH CLASSIC:

STRUCTURAL FIRRINGS

Ultraframe have gone one step further with these ready assembled interlocking profiles that not only fill the 'hole' between the side frames and the roof but which add substantial support to the whole structure particularly when doors are in the end elevations.



- Available at 2.5° and 5° pitch in 3045mm and 4045mm lengths - these need to be cut to length on site.*
- The firrings consist of a series of inter connected/locking PVCu profiles that are supplied pre-fabricated.
- Firrings are supplied in different 'conditions' to suit various projections and applications.
- The 'flowline' guttering can be clipped to the firring allowing
 the guttering to run along the front and sides of the
 conservatory. This can save the need for a soakaway as the
 guttering can be routed back to the house and rain water
 dispersed down the dwelling's existing fall pipes.



BOX GUTTER SPECIFICATION

When there is insufficient height under the bungalow soffit it may necessary to utilise a box gutter with an extended leg and flange to gain extra height.

In these situations, the box gutter MUST be supported by brick piers or gallows brackets.

Always speak to the Ultraframe Technical Support Team about the correct design/specification in this area - the box gutter and structural gallows bracket are priced on a project by project basis.



BOX GUTTERS

When a conservatory roof slopes backwards towards the existing building a box gutter is required. Ultraframe offers a choice of three main options:- 165mm standard, 265mm standard or custom design. The latter option is used when the design is particularly bespoke, with Ultraframe using evey ounce of its design and fabrication expertise.



Top: 165mm Standard. Above: 265mm Standard



Gutter Strap Assembly



Boxgutter with 'V' Groove Fascia



Boxgutter with Ultraselect Fascia into which can be fitted SF1003 white infill



Boxgutter Adapter which comes with a measured 'shot' of Gutterbond sealant



Raised Back Boxgutter - custom design

SUPPORT SPECIFICATION

It is vital when box gutters are specified that - even at sales stage - the issue of providing adequate support is considered. Attachment to timber fascias alone is NOT sufficient and brick piers, gallows brackets and other hangers must be considered.

All of Ultraframe's box gutters are insulated to minimise condensation risk. Where box gutters are jointed, they are sleeved

and bolted. Injection moulded adapters are used to ensure seamless and watertight jointing between the Classic PVCu gutter and the aluminium box gutter.

Each adapter comes complete with its own dry jointing gasket and measured 'shot' of Gutterbond proprietory sealant to ensure rapid completion even in the inclement weather typically found in the U.K.



Custom gallows brackets also available.



Gallows Bracket - off the shelf. Suitable for 165 or 265 boxgutters.



Hanger Bracket - alternative support for 165 box gutters.



The Gable conservatory is ever more popular as it has a square front to maximise floor space for the homeowner whilst it has an interesting large infill window, into which feature designs like 'sunbursts' can be installed.

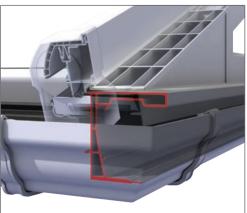
When doors are placed beneath a gable frame, additional structural support is needed to ensure frame wobble/deflection is eliminated.

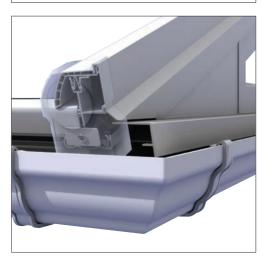
The Ultraframe Gable Support beam interfaces with the standard Classic Eaves Beam to create one holistic structural 'collar'. It comes complete with 'cheese wedge' infills to ensure neat detailing.

Ultraframe strongly recommends this upgrade option to be used on gable designs.





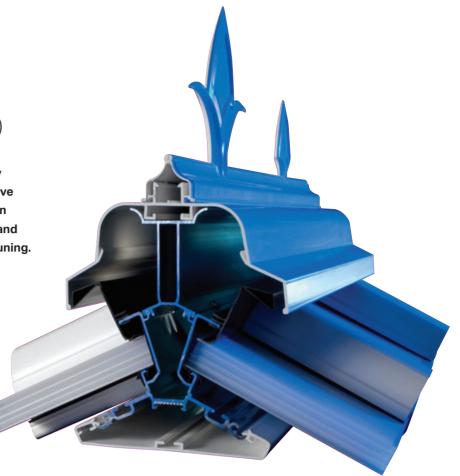




TIE BAR REPLACEMENT KIT (TBRK)

The Tie Bar Replacement Kit (TBRK) is the UK's only effective solution to traditional tie bars. Tie bars have been an essential part of a conservatory installation since Victorian times and conservatory designers and installers are well versed in their fitment and fine-tuning.

The TBRK features new state-of-the-art technology. To replace a tie bar* (some larger conservatory designs feature more than one tie bar - TBRK can only ever replace one) five special product measures are additionally specified by Ultraframe at the time of ordering.





An aluminium bolster beam extends along the entire length of the ridge and acts as one with the existing aluminium ridge body to virtually eliminate deflection.



Cast aluminium 'end stop' on the eaves beam featuring integral slots for two anchor bolts to hold the conservatory to the host wall even more securely.



This short piece of reinforcement in each starter bar ensures that three anchor bolts are drilled into the host wall, when the reinforcement prevents the aluminium bar being crushed under excessive torque. It also ensures that additional reinforcement is offered where the bar intersects the eaves beam.



end of the aluminium ridge body where it joins the house wall - this distributes compression forces across the host wall and allows installers to assemble and suspend the starter bars prior to attaching the main ridge body.

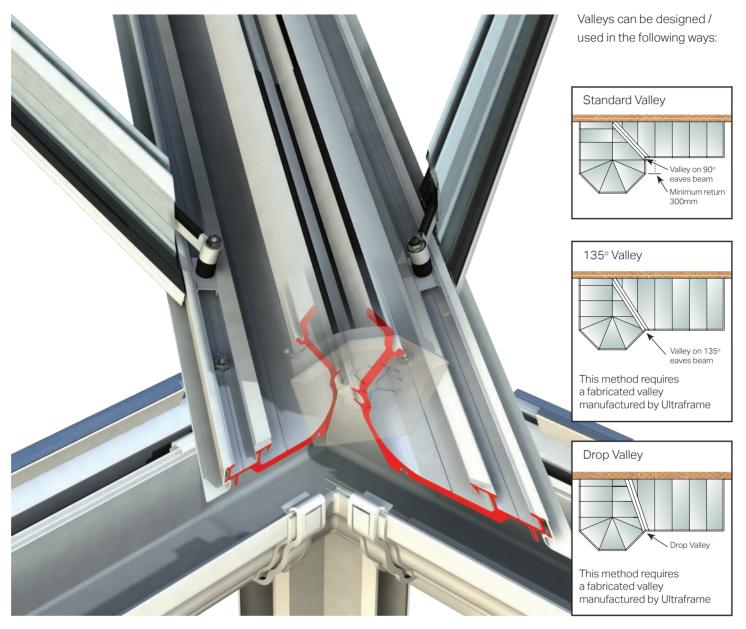


A 'Ridge Compression Plate' sits at the An additional cleat is inserted in the eaves *TBRK cannot replace tie bars in these whilst this is backed up by a further butterfly tie bars - where they terminate on valleys. cleat (illustrated).

beam corners (making two cleats in total) situations - gable fronted designs 'Y' shaped

Section 6

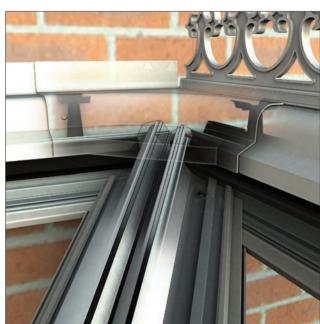
OTHER ITEMS - STRUCTURAL



The Valley is a heavy weight structural component that drains two adjacent glazed roof slopes and connects to the eaves beam and the ridge/half ridge.

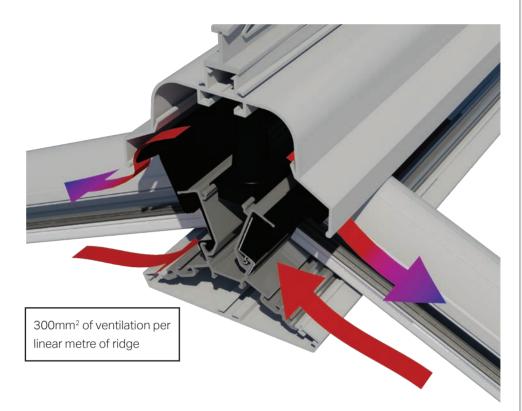
When glazing bars connect to the valley they use sleeved tenons to create strong joints - construction detail is the same as the jack rafter on p11.

Triple fixing of sleeved tenon provides robust performance. Joint design resists both positive and negative loadings.



OTHER ITEMS - VENTILATION

It is vital to the maintenance of a comfortable environment - ventilation is often overlooked by both consumers and manufacturers, but not Ultraframe, who are still the only conservatory roof brand to offer in built trickle ventilation as standard.



TRICKLE VENTILATION SYSTEM IN THE RIDGE

Harnesses natural upward movement of warm air to carry stale, moist air to the roof apex for venting outside. This is standard in all duo pitch (Victorian, Georgian, Gable etc) Classic roofs. A version of this feature is included in the wallplate in lean to designs.

OPENING ROOF VENTS

Roof vents can be specified with a pole operated screw jack mechanism or you can opt for a full climate control package of rain sensor and thermostat.



Pole operated screw jack mechanism

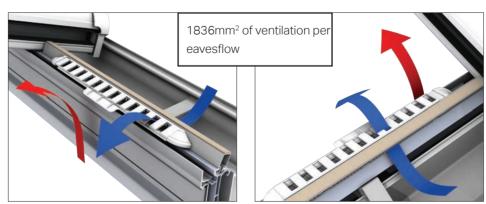


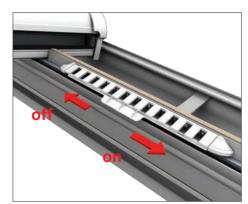


A climate control package is available to automate the roof vent.

EAVESFLOW

This is an upgrade option (but standard on rosewood and light oak woodgrain foils). Eavesflow sits within the eaves beam, introducing clean fresh air to replace the warm moist air that exits through the ridge. (Eavesflow can be specified with the non - ventilated wallplate as an upgrade option.)





• The glazing support trim is punched and into this clips Eavesflow ventilation to provide an additional source of fresh air and complements the unique built-in ridge or wallplate ventilation system with slider controller for on/off regulation.

OTHER ITEMS - CONSERVAFLASH

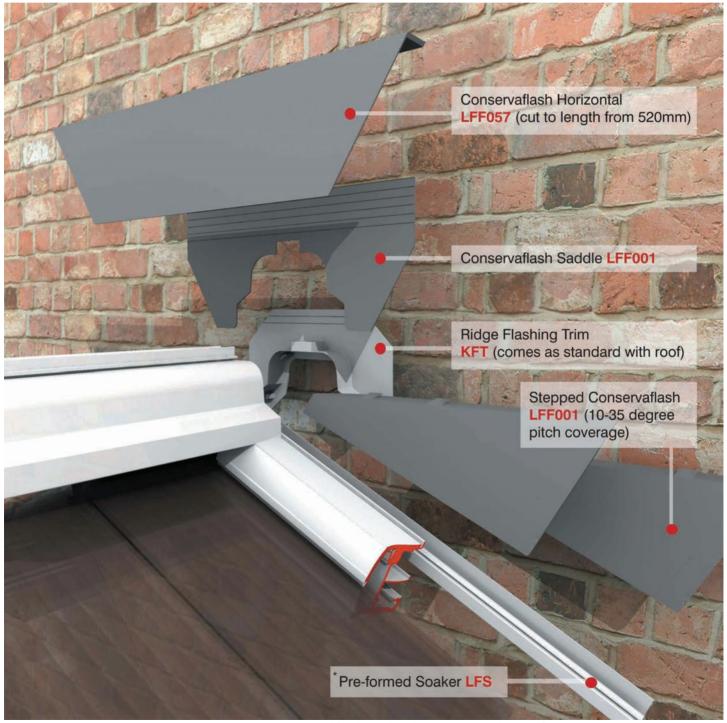
Conservaflash™ is a pre-formed PVCu flashing system that will change the way you install.

ConservaflashTM is an engineered product offering professional results - in a flash! It is also covered within Ultraframe's BBA Certificate. ConservaflashTM can be specified when a roof is ordered and a pre-configured flashing pack will be delivered with the roof. Ultraframe ConservaflashTM can be specified when the host wall is of brick construction.

SPECIFICATION

Conservaflash™ is manufactured from PVCu and comprises:

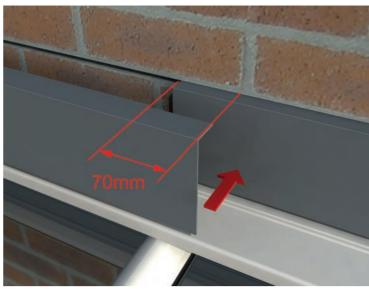
- Extruded soaker that is pre-clipped into the starter bar.
- Stepped flashings, incorporating weather bars, for 5 different pitch ranges
- Universal horizontal flashing for lean-to's and aprons on duo-pitch roofs.



*Can be ordered on its own or with a roof

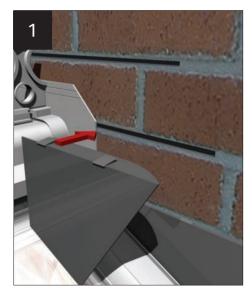
FEATURES & BENEFITS

- Save money when compared to buying lead.
- Save at least an hour on each installation.
- An engineered solution each and every time.
- No waste precise amount supplied.
- Comes with the roof an integrated solution.
- Convenient, pre-packed with no environmental risks.
- Suitable for duo pitch and lean to 'gable to gable' designs.

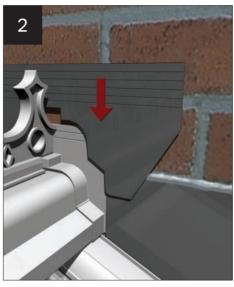


Lean-to installation

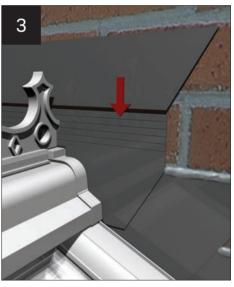
INSTALLATION OVERVIEW



Apply 2 beads of silicone to integral weatherbars - insert into 35mm slot.

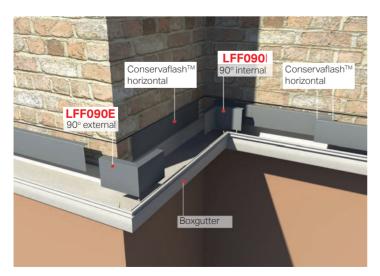


'Butter' with silicone and fit pre-cut saddle trim.



Offer up the horizontal flashing and cut ends as appropriate.

HORIZONTAL FLASHING OPTIONS



90° external/internal corners for boxgutters

GLAZING

When designing your conservatory, the choice of a glass or polycarbonate roof is an important one. To enable you to use your conservatory all year round, you need a glazing material that deflects heat from the sun in the Summer and retains the warmth from heating appliances in the Winter. You may also want a material that allows maximum light into your home.

ULTRAFRAME POLYCARBONATE

Available in a wide range of specifications, colours and thicknesses, to suit your budget, your chosen conservatory colour and the position and orientation of the conservatory, polycarbonate is a lower cost alternative to glass and it can be treated to offer excellent solar protection and thermal properties, but this is at the cost of light transmission.

PROPERTIES

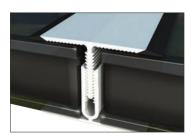
Polycarbonate is a very popular glazing material for conservatory roofs as it is lightweight, durable and exceptionally strong – up to 200 times stronger than glass and virtually shatterproof. All polycarbonates work to lessen the glare and heat from the sun to ensure that your conservatory can be as comfortable as possible all year round.

The standard range of polycarbonate thicknesses is 25mm or 35mm, with a colour choice of clear, bronze, opal, bronze/opal and solarguard. All are designed to reduce glare and minimise solar heat gain. Bronze/Opal gives a bright internal appearance even on a dull day, reduces solar heat gain and provides privacy. Solarguard limits the potential for heat build-up within the conservatory, whilst allowing light to enter the roof, deflecting solar radiation and reducing solar heat gain by up to 50%, when compared with conventional polycarbonates.

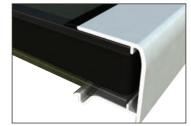
BENEFITS OF THE RANGE

- Testing to Class 1 Spread of Flame Protection
- 10 year warranty for light transmission & breakage
- Superb thermal efficiency and strength due to the multi-wall construction

DETAILS - Common to polycarbonate and sealed units

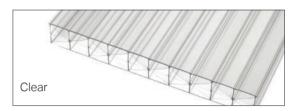


PVCu Muntin Bar - joins long sealed units together

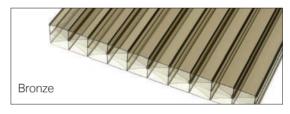


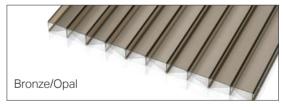
PVCu End Closure Detail - creates additional protection at the gutter end of the glazing panel

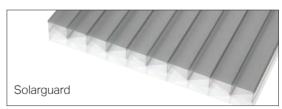
COLOUR OPTIONS













Glazing Material Retention Clips -See page 13 for further information



Sealed Units or Polycarbonate

GLAZING PERFORMANCE













To enable a conservatory to be used all year round, a glazing material must be selected that deflects heat from the sun in the Summer and retains the warmth from heating appliances in the Winter. Also needed is a material that allows maximum light into your home.

- Our sealed units offer a range of performance attributes perfect for roofs
- All roof units are toughened safety glass: 4mm glass 16 mm Argon filled cavity -4 mm glass with black warm edge spacer as standard.
- All roof units are manufactured in specialist roof glass factories and are guaranteed for 10 years.
- All specifications are true 'self cleaning' and offer a range of solar control properties.

CONSERVAGLASS SEALED UNIT SPECIFICATION (4-16-4)

* Neutral coating gives a slightly grey appearance.

Spec Tier	Tier 4	Tier 3	Tier 2			Tier 1				
Code	SMG	SMG	SMG	SMG	SMG	SMG	SMG	SMG	SMG	SMG
Glass Specification	ULTRA83 Blue	Ultimate Blue	4S Blue	4S Neutral*	4S Aqua	4S Bronze	Blue	Neutral*	Aqua	Bronze
'U' value	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2
Solar Rejection %	83	80	72	71	78	66	60	60	72	51
Light Transmission %	25	27	41	37	32	42	52	45	39	52
UV Protection/Rejection %	90	90	86	82	90	89	83	78	92	86
Self Cleaning	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Black Warm Edge Spacer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gas (Argon)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24mm (4-16-4)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10yr Guarantee	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Spec Tier: Tier 1 = lowest, Tier 4 = highest

ULTRAFRAME POLYCARBONATE

Polycarboate Sheet	Light Transmission		Solar Transmission		U Value Wm ⁻² K ⁻¹		Shading Efficiency	
Size	25mm	35mm	25mm	35mm	25mm	35mm	25mm	35mm
Clear	65%	51%	63%	55%	1.7	1.3	73%	72%
Opal	31%	29%	37%	35%	1.7	1.3	42%	41%
Bronze	24%	11%	26%	14%	1.7	1.3	30%	27%
Bronze / Opal	11%	18%	16%	22%	1.7	1.3	18%	17%
Solarguard	5%	8%	8%	8%	1.7	1.3	9%	9%

Light Transmission - Percentage of light transmitted through the unit / polycarbonate sheet.

Solar Rejection - The proportion of the sun's energy that is rejected. The higher the percentage the better it is.

Solar Transmission - The proportion of the sun's energy that is transmitted through the sheet. The lower the percentage the better it is.

U Value W/m² °K - A measure of how good the material is at preventing heat loss to the outside. The lower the figure, the more thermally efficient it is.

UV Protection - The higher the % the lower the possibility of furniture and fabrics fading.#

Shading Efficiency - The lower the figure the more shade is created.

COLOURS / FINISHES - PVCu ROOFS

Colour applied correctly has a profound positive effect on your wellbeing. It strongly influences how we interact with each other and our surroundings... so do you stick to conventional conservatory colours and finishes or do you choose something different?









Coloured Foil Roofs are available in the following colours:



White
Paint matching:
RAL9003



Cream
Paint matching:
RAL9001



Sage Green
Paint matching:
BS14C35



Grey
Paint matching:
RAL7016



Ebony Black
Paint matching:
RAL8022



Irish Oak
Paint matching:
RAL1011

COLOUR OPTIONS

These PVCu conservatory roofs feature major parts that are actually foil laminated, with only a minority of parts actually painted.

The foil laminated products used on major items in the PVCu roof and on the PVCu side frames, have a real woodgrain texture to add a further dose of character. The products can be coloured one side or both, with the possibility to mix colours between the outside and the inside.

- · Many major parts are coloured foils.
- · A viable alternative to powder coated aluminium
- Matching PVCu side frames in the same foil colours are widely available in the market
- The perfect complement to painted side frames on timber conservatories
- Can't see the colour you want?
 Ask for a bespoke colour and we'll paint the roof.
- For full specification on which items are foiled / painted, please see overleaf.

COLOURED FOILED PRODUCT CHART



Item	Supplied Foiled*	Supplied Sprayed
Glazing Bar	Top Cappings	
	Internal Claddings	
	Bolster Covers	
	Lean-to Cloaking Trim	
	Muntin Bars	
	Glazing End Channel	
	End Caps	
Eaves Beam	Internal Cladding (PFTB)	Polysupport - To Internal Colour
	End Channel	Under Gutter Trim (White on white roofs & black on other
		colours)
		Internal Fascia Corners
Ridge	Undercladding and internal radius end	Pikestaff Finial
	Internal Half Ridge Undercladding	Low Profile Finial
	Vented Wallplate Internal	Low Profile Cresting
Vented Wallplate E	xternalRenaissance Cresting	
	External Ridge Capping* and radius ends	Ball Finial
	Internal Radius Ends	External Half Ridge Capping
	External Radius Ends	Flashing Trim
	Low Profile Cresting (CUD)	Half Ridge External Radius Ends
		Half Ridge and Vented Wallplate End Caps
		Gable End Cappings
Gutter		White Marley Classic Gutter on white roofs
		Black** Marley Classic Gutter on other standard colours
		Coloured Marley Classic Gutter (Supplied at Additional Cost)
Valleys	Internal Claddings	External Cladding
Box Gutter	Undercladding	Multiboard - Raised Back Box Gutters
		Adaptors
Roof Vents	N/A	Sprayed. Motors are white on white roofs and black on
		other coloured roofs.

Specification/notes

Dome chambered cappings supplied as standard.

Choose from low profile, Renaissance cresting and Pikestaff or Ball finial. Suitable for 24mm glazing.

A chrome tie bar is specified on internally coloured roofs.

White tie bars are used on white foiled roofs.

A coloured conservatory consists of foiled and painted parts. Every effort is made to ensure gloss levels are within reasonable tolerance. RAL and BS colour references are made in good faith - always give a sample swatch to your supplier when ordering any other parts (frames, cills etc) to match.

- * On a white foiled roof, the only parts available foiled are glazing bar top caps, undercladdings, PFTB internal cladding, ridge undercladding, valley internals, box gutter undercladding, vented wallplate undercladding, half ridge undercladding, end channel, muntin bars and lean-to cloak trim. Reminder is standard body colour white.
- ** Black Marley is RAL9005

Carefully chosen colours create a space that works best for you and your home. Consider this...

Black: powerful, sophisticated, elegance White/cream: calm, clean, sophisticated Green: harmony, balance, renewal Grey: calm, secure, reliable Brown: stable, comforting, enduring



OTHER CONSERVATORY DESIGNS

The Ultraframe roof system is truely configurable, thats why we can undertake more shapes and styles than any other system - in fact, its why we are market leader.

PAGODA

By having an intermediate beam at right angles to the roof slope, we can create a stunning design and allow the use of differing glazing materials 'North and South' of the beam. The beam allows the roof to be used on even bigger conservatories before a portal frame is needed to give additional support.









WOKS

Why the weird name for this style? Because the ridge end caps look like the large pans used to cook chinese food! There can be full woks (360°), half woks or quarter woks. A further demonstration of the configurability of the Classic roof.



Full Wok













Similar to a Pagoda, where a roof slope is split in two, but with an extra row of windows mid slope. Stunning on certain period homes.

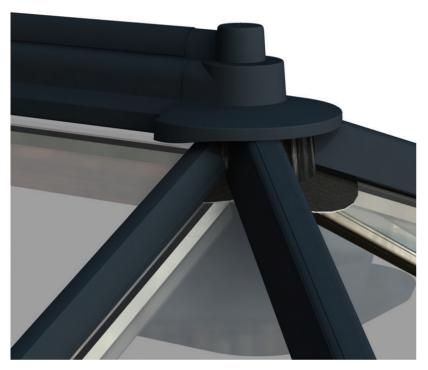






LINKED TECHNOLOGIES - ALUMINIUM

Further enhancing the proven technology used in Ultraframe's Classic roof, the Ultraframe Classic Aluminium suite combines state-of-the-art ideas and design technologies with elegant, contemporary profiles to provide a strong, rigid yet lightweight system that can be configured into virtually any roof design.



BASE OFFER

- Aluminium glazing bar top caps.
- Aluminium ridge body and aluminium low profile cresting.
- Aluminium cast ridge end, integral brush and weathering flashing (or downgrade to PVCu radius end).

UPGRADE OPTIONS

- Aluminium cresting.
- Aluminium muntin.*
- Aluminium glazing end profile.*
- Aluminium decorative Cornice with die cast aluminium corner covers in 135° and 90° angles (Straight jointers too).
- Aluminium vent available.
- * When Cornice is specified, these items are supplied in grey RAL 7016. This applies also to glazing bar end caps.

TRANSOM TOP CAPS

When selling the Ultraframe Classic aluminium roof, retailers have the choice between two different shaped transom top caps; a contemporary and a traditional option.

All Ultraframe top caps in the range utilise innovative Schlegel Q-lon gaskets which are inserted into the glazing bar top cap slots. Due to their unique design shape, when under compression, these gaskets create a double weatherseal, remaining operational and elastic even in the worst of weather conditions, without any loss in seal.



COLOUR OPTIONS

The Ultraframe Classic aluminium roof is available painted in a wide range of RAL specified colours. Choose a traditional white colour or break the mould with a contemporary grey or black roof. Virtually any other colour you can imagine can be matched using the RAL colour system.















TOP CAP CLIPS

The Ultraframe Classic aluminium roof also takes a different approach to top cap retention.

To ensure that there is a constant thermal break and that no fixings puncture the primary weatherproofing, Classic roof uses injection moulded polycarbonate clip which is simply 'zipped' into the aluminium top cap whilst the roof is being built.

These clip security devices are then deployed at the top and bottom ends of the glazing bars and at 500mm centres and with no more than the heel of the hand - the top cap is finally secured.



CORNICE

A decorative cornice adds shape and style to any roofline, concealing gutters and rafter ends. Best of all there are 4 styles to choose from. Design the width of your internal pelmet to suit your new room from 300mm to 1200m. The added insulation in the pelmet will ensure your new orangery or extension is always warm, welcoming and cosy.

Curved Cornice includes a die cast 135° and 90° corner cover as well as straight jointers, which will help fitters achieve a consistent fit and finish at critical junctions. 1, 2 & 3 tier Cornice ONLY 90° corners and straight jointers available.









INSULATED INTERNAL PELMET

Insulated internal pelmet is the best of both worlds, combining the light and sky of a conservatory with the walls and ceiling of an extension.

Insulated internal pelmet is truly multi-functional, creating a pleasant and relaxing space for meditation or it can be a 'full on' family room. Insulated internal pelmet offers more, lots more than either a conservatory or an extension. Consider these benefits when choosing Ultraframe's Insulated internal pelmet which features the Classic roofing technology.

- Enjoy the light from a conservatory with the feel of an extension -providing greater overall value and the best of all worlds.
- Creates a whole new dynamic to the space a 'real room/living room' feel.
- You can maintain light and space by using windows all round, have brick piers to give a greater sense of solidity or now specify super-insulated columns.
- Better thermal efficiency when compared to a standard conservatory - pelmet can be filled with insulation quilt for even better thermal performance.
- This real room/living room feel means more styling and furnishing options and the perimeter ceiling is perfect for down lighters.
- Variable pelmet depth, 300 1200mm.







Super-insulated column - replaces brick piers. See seperate brochure for more information.



Illustration shows below fascia option

(not supplied)

VERANDA GLASS EXTENSION

Conservatories have always been an excellent way for consumers to blur the margin between home and garden, but Ultraframe is taking the idea to a new level with its Veranda glass extension.

The light, bright and airy interior will add a new dimension to your home and provide a seamless link between your home and garden.





SYSTEM ELEMENTS

At the core of the Veranda is the Classic roof. At the intersection between internal and external space is the Super Duty Eaves Beam*, clad internally with the PFTB planked fascia and externally with a powder coated aluminium fascia.

The main Veranda beam is constructed from powder coated aluminium and acts as an integral gutter and support beam. Posts are part of the structural support package. There are two types of post - aluminium or oak. The oak post comes complete with gasketed stopends and splice plates to connect to the base.

An alternative to the oak post is the aluminium support post - this can mutually fulfill 2 functions when fabricated, as rain water pipe and post.

* On certain Veranda designs and on very wide openings, a 'goal post' support arrangement will be necessary and of course Ultraframe can design and manufacture this.



Rain Gutter detail

COMPARE THE ULTRAFRAME CLASSIC WITH SOME ALTERNATIVES

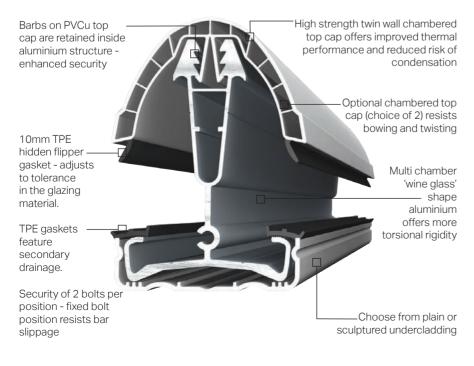
Having read this guide to the Classic Roof technology, you will have some idea why it is not only the best on the market, but why it is the most popular amongst the trade and satisfied homeowners too - after all, 1,500,000 satisfied customers can't be wrong, can they?!

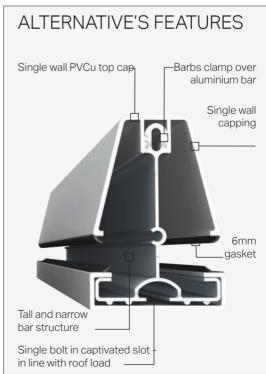
Reasons to choose Ultraframe... outlining the Classic features and benefits

FEATURE	BENEFIT
Over 1 and a half million Classic conservatory roofs installed to date.	Tried, tested and trusted. The ultimate in peace of mind as you know the roofs are performing day in day out in all that the UK climate can throw at it.
The first conservatory roof to be BBA approved.	In 1996 we were the first to submit roofs for independent 3rd party accreditation.
Classic regarded as the most versatile system on the market	A sales team have the confidence that whatever design/style/shape they sell Classic can accommodate it.
Unique ridge ventilation as standard	Helps the homeowner to control internal air movement and internal temperatures.
Eavesbeam ventilation is optional	Combine ridge trickle ventilation with Eavesflow and you have the perfect combination of cross flow and convection working in tandem - effective minimisation of condensation.
PVCu twinwall glazing bar top cappings	Excellent thermal performance makes the conservatory warmer in winter - shape options for more choice.
The most thermally efficient 'traditional' roof on the market	No other 'traditional' roof comes close: 4 deg C (40%) warmer than competitors top caps.
Speedy glazing bar attachment at the ridge with speedloks	Proven technique using space age materials - speedy attachment on site
Revolutionary effective Tie Bar Replacement Kit	Remove unsightly tie bars with confidence
Reliable Classic gable frame support system	Eliminate frame wobble, particularly under double doors and remove the need for extra soak aways - saves money on site and looks good. Use on gable fronted and lean-to's
Wide range of customer options	From interior pelmets to external Cornice Classic it is all highly configurable
Conservaflash - Unique lead free flashing kit	Further speed up installation with the combined soaker and stepped PVCu flashing - save time and money over lead
Engineered structurally proven jack rafter connecting kits	Whether it's wind uplift or heavy snow load, the connection point is strong and waterproof
Classic offers the widest selection of finials and crestings	With Classic, you are not stuck with one choice - Easyclean versions also
Fully insulated boxgutters to suit all possible applications	Reduces the chance of condensation
Extensive choice of optional glazing materials	From basic to high performance, there are options for all budgets which means that homeowners with varying budgets can access our technology

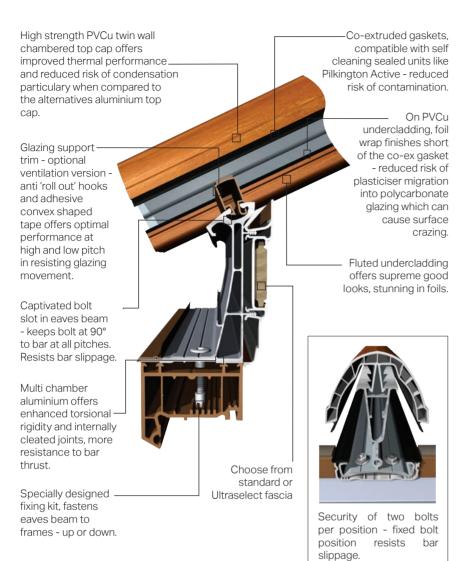
Spot the difference between key components and a hybrid of features available from others...

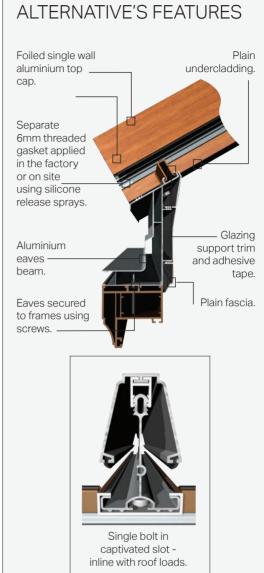
ULTRAFRAME BARS



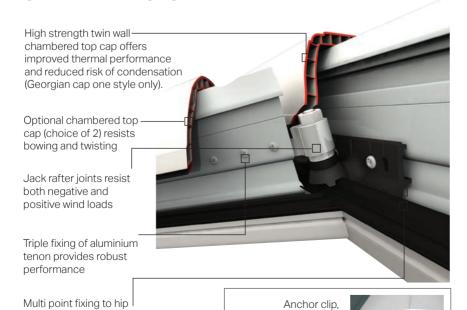


ULTRAFRAME EAVES BEAM





ULTRAFRAME JACK RAFTER



additional security

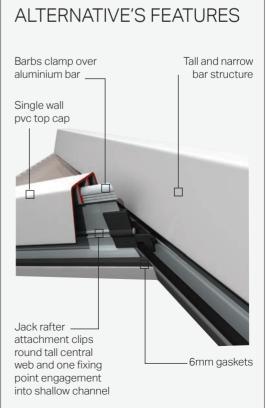
against PVCu top

Maintains seals in

jack rafter and ridge

cap movement.

positions



bar. Shape retained by

pips in aluminium.