



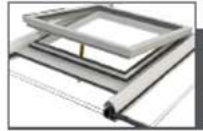
Glassroof

By Ultraframe

- ✓ 1.5million roofs installed
- ✓ Over 30 years of engineering
- ✓ Quick fit ridge with 'speed lock'
- ✓ Unique weathering shield
- ✓ Fit and forget quality
- ✓ Chambered top-caps as standard
- ✓ Large spanning capability

Glassroof

By Ultraframe



Roof vent



Hub

Weathering hub offers ultimate protection from wind and rain



Speedlock

Patented Speedlock ensures bars are secured and glazing is perfectly aligned



Slimline aluminium roof vent



Jack rafters

Wind resistant jack rafters - tested in 120mph winds



Profile

Strong 'winglass' bars engineered to withstand extreme weather conditions for your postcode



Glazing stops

Robust glazing supports prevent glass slippage



Cornice

Optional cornice hides gutters and adds shape to the roofline. 4 designs available



Columns

Optional super-insulated columns



Pelmet

Optional internal pelmet insulates the eaves - a useful place for spotlights or speakers



Top-caps

Chambered top-caps provide maximum security and thermal efficiency. Available in any RAL colour



Twinbolts

Twinbolts deliver super-strong structural joints



Anchor clips

Anchor clips control natural movement for a weathertight seal



Eaves beam

Optional super duty eaves beam for larger spans



BBA Approved conservatory roof system

Ultraframe[®]
Transforming light and space

Glassroof
By Ultraframe

Glazing Bars

- The 'wineglass' aluminium profile is designed for maximum torsional rigidity, and to resist both compression and wind uplift forces
- Chambered top caps help combat warping and twisting
- Chambered top caps are difficult to remove once in place providing added security



Decorative Undercladding



Chambered Starter

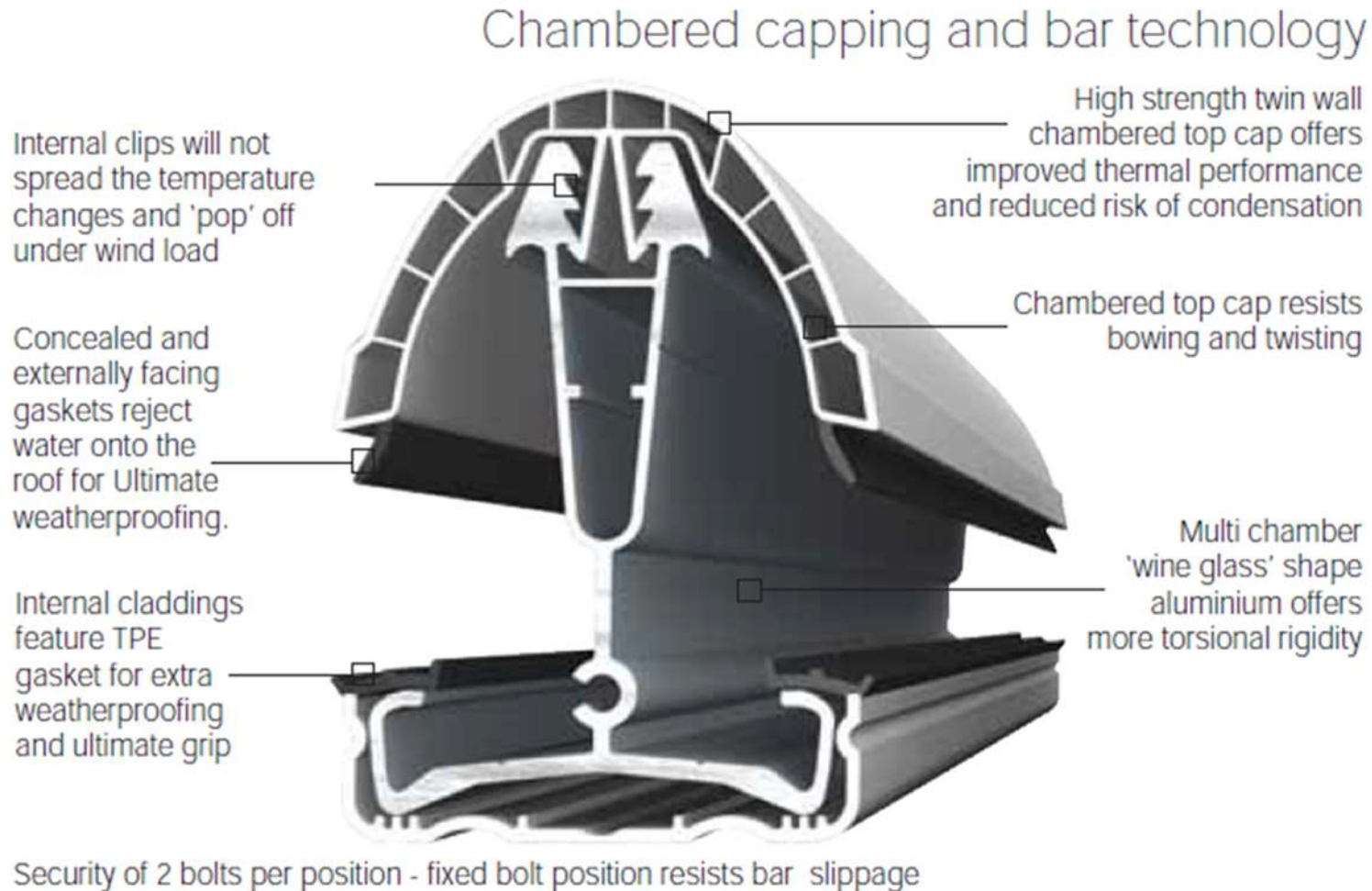


Chambered Hip



Chambered Transom

Chambered Top Capping Features and Benefits



Glazing Bar Details

Bolster bar

- Used when a conservatory span is too great for the standard glazing bar
- Aluminium bolster profile to provide strength for increased spanning capability
- Specialist uPVC under claddings provide a thermal break
- UV stabilised injection moulded end cap finished the bolster short of the eaves for an easy fit.



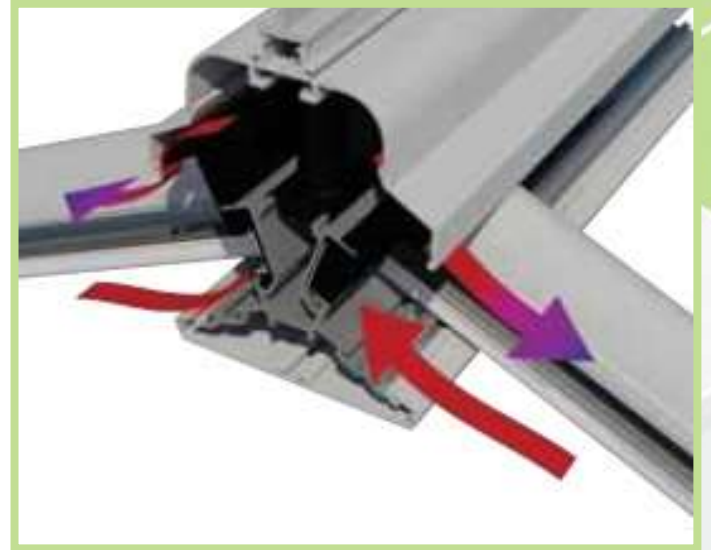
Inter-rafter

- Used when the roof design calls for a large number of glazing bars to terminate at the ridge
- Picture shows the middle bar of three, bolted to the adjacent bars rather than terminating at radius end
- Eliminates need for 'sharp' arrow cut bars
- Specialist weathering shield provided (not shown)



Trickle Ventilation

- Secure Trickle Vent System which you can open and close
- Combined this ventilation creates a cross flow of air to help stabilise the conservatory temperature on hot days
- Effectively helps minimise condensation too



Twin Bolt Technology

Why choose a conservatory that uses single bolts when you can have a roof that uses twin bolts?

- Stainless steel twin-bolts
- Anchor each transom to the ridge and the eaves
- Twice as many fixings as other roofing systems
- Bolts slot in the eaves at the opposite direction to the roof load
- Spigot nut centres the bolts to ensure an effective structural joint



This quality fixing system reduces glazing bar slippage and delivers maximum security for peace of mind

Structurally Proven Jack Rafter

The jack rafter connection is critical to the performance of the roof. It absorbs the strain of severe wind, snow load and excessive rainfall

The Ultraframe jack rafter is triple fixed and structurally tested in winds of up to 300mph

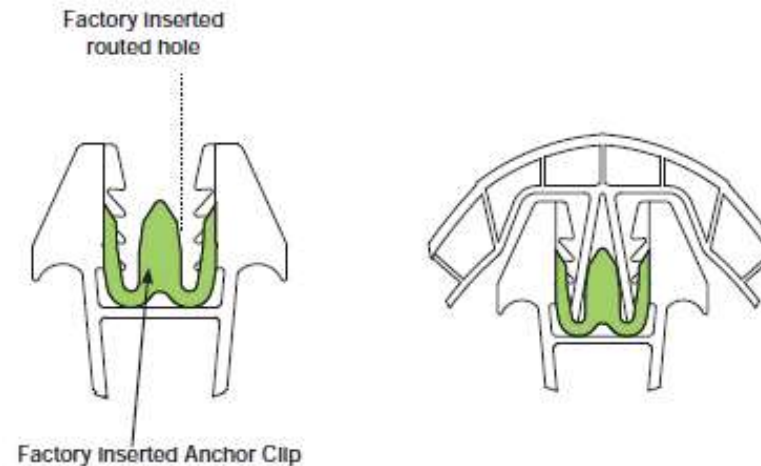
- ✓ Secure fixing resists both negative and positive wind load
- ✓ Structurally proven
- ✓ Bolted into position
- ✓ Triple fixed to glazing bar
- ✓ Anchor clip maintains a watertight seal in every position



Anchor Clip

These patented clips on every glazing bar ensure the Ultraframe glass roof stays watertight in extreme weather

- PVC top caps naturally expand and contract due to forces from wind snow and rain
- The anchor clip controls this movement to maintain the critical weather tight seal
- Ultraframe is the only roof system with this solution
- Standard on all PVC top cappings
- Factory fitted



Glazing Stops

- Locks glazing material in position
- Eliminates return visits for glazing slippage
- Maintains water tight seals and prevents movement and keeps everything in place, eradicating problems and call backs
- Lock the glazing end profile into position preventing them from falling into the gutter.



A Choice of Two High Quality Ridges

Classic Ridge



- Patented Speed locks at radius ends
- Available on any roof shape
- Pitches 15° - 41°

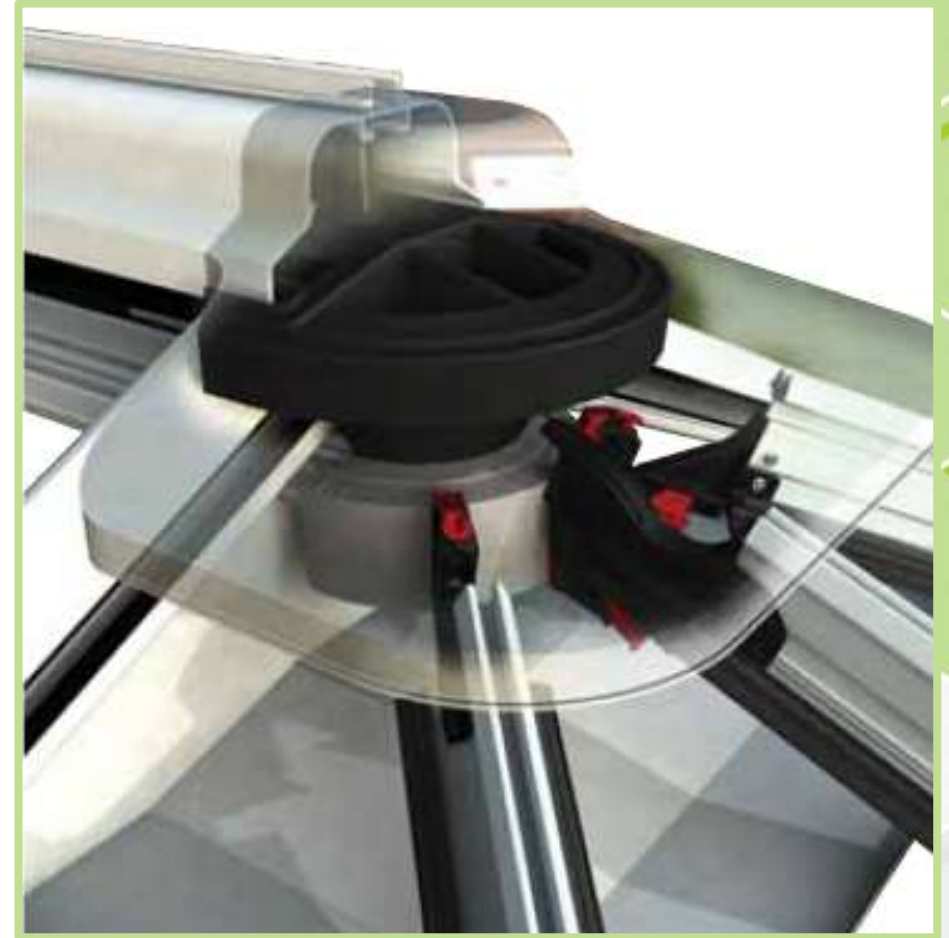
NEW Slimline Ridge



- Super-strong for wider glass panels
- No bulky radius end
- Fixed 25° pitch
- Georgian and Double Georgian roofs only

Classic Ventilated Ridge

- The Classic ridge has a pitch range of 15 to 40 degrees.
- Speed lock pin points exact location of transom bars delivering consistent fixing points during the on site assembly process to guarantee performance
- Right first time fixing of transom bars delivers secure and safe attachment.
- Weathering Hub offers ultimate protection from wind and rain – no leaks
- All glazing bars are perfectly seated on level glazing planes ensuring maximum contact of rubber weather seals onto the glazing and millimetre perfect glazing sizes



Classic Ridge System: Half Ridge & Wallplate

Ventilated wall plate assembly
(standard on lean to roofs)



Ventilated half ridge assembly
(P, T and Hipped Lean to shapes)



NEW Slimline Ridge

- 42% slimmer than Classic ridge (95mm)
- Aluminium ridge profile
- Aluminium or uPVC top cap
- Less bulky than traditional radius end covers
- Neat internal ridge end cover – no visible fixings
- Fixed 25° pitch
- Georgian or Double hipped Georgian only



Neat, Click fit internal cover



Neat, Click fit external cover



New Slimline Ridge

Thermally Broken Ridge

- High performance Thermal break
- Glass Nylon Polymer (thermal break) to prevent cold spots

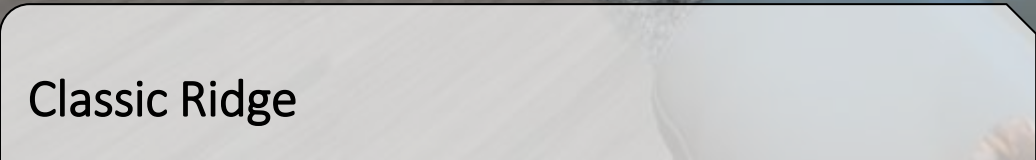


Storm Shield Protection system

Triple layer protection

1. Waterproof glazing compression trims
2. Ridge end weathering shields
3. 'Secure fit' radius end cover end covers





Classic Ridge



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NEW Slimline Ridge



Glassroof
By Ultraframe

Internal Pelmet

- Completely configurable internal soffit
- Variable from 300mm to 1200mm width
- Houses downlights, speakers, blinds, insulation
- Low cost orangery effect
- Creates a room-like feel
- Improves thermal insulation
- Can be retro-fitted to Ultraframe roofs
- Dry lining framework
- Easy to fit
- Plasterboard finish





Glass roof (Slimline ridge shown)



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By Ultraframe



300mm Pelmet added to glass roof

Glassroof
By Ultraframe

Super Insulated Columns

- 5 times more thermally efficient than brick piers
- The columns are super insulated, off site manufactured and feature heavy duty construction grade EPS as its core
- Externally, powder coated aluminium cladding panels
- Enables seamless integration of wall glazing and plastered internal elements
- Facilitates the 'orangery' look without time consuming and awkward to build brick piers
- Options for full height or dwarf wall configurations





Super-insulated columns added



Glassroof
By Ultraframe

External Cornice

- Adds shape and style to roofline
- Conceals gutters and rafter ends
- Powder coated aluminium
- Standard colours White, Brown, Cream, Grey, Chartwell Green
- Available in any RAL colour
- 4 styles to choose from



Summary of Box Gutters

- Ultraframe offers a choice of 165mm, 265mm or a custom designed boxgutter
- Available with a V groove or select fascia trim
- PVC adaptors ensure seamless and watertight jointing between the box gutter and PVC gutter
- Gallows and hanging brackets available for extra support when needed



NEW Chambered 165mm box gutter



165mm box gutter



265mm box gutter



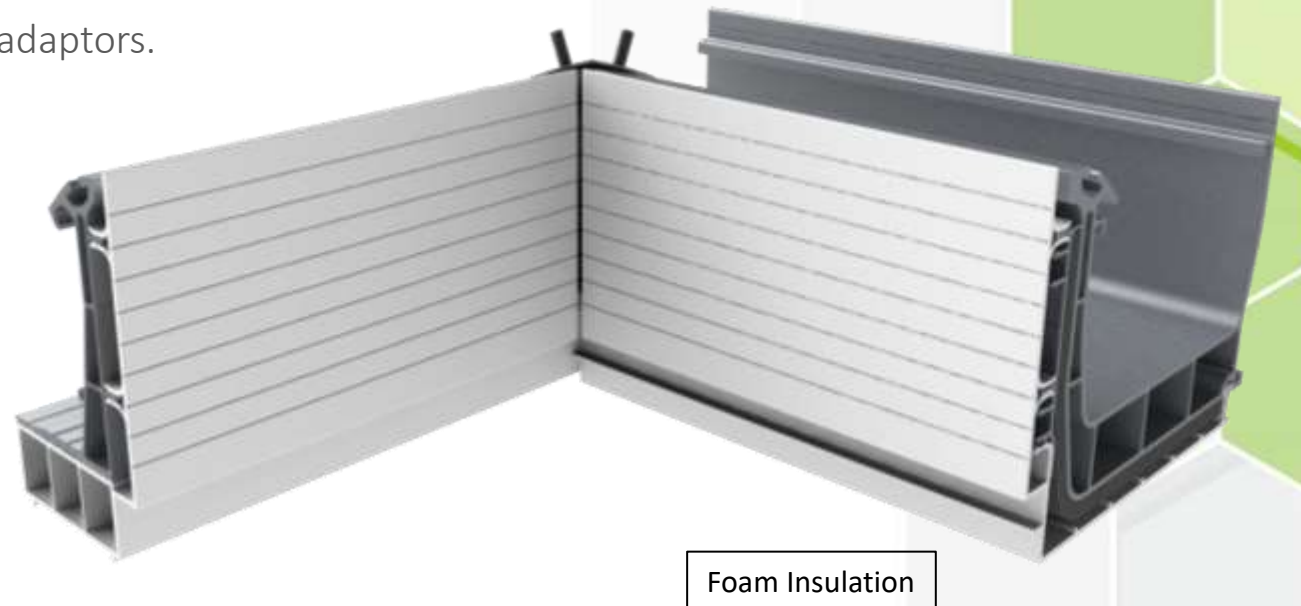
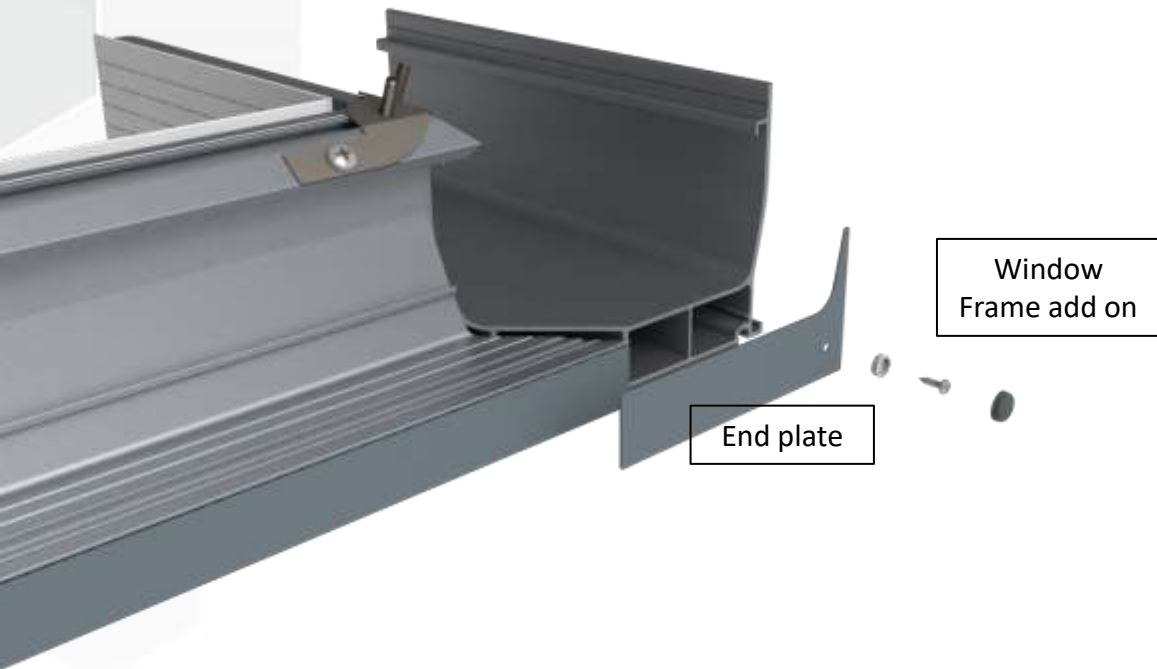
Box gutter with decorative fascia



Raised back box gutter
(Available on any style)

NEW Chambered Box Gutter

- Chambered section enables spanning capability up to 4380mm without the requirement for gallows brackets.
- 165mm wide
- Compatible with both Standard Eaves beam and Super Duty Eaves.
- When used with Standard Eaves, a 30mm window frame add on is required to pack the eaves
- A blanking plate endcap is available to close off the chambered end of the box gutter.
- Chambered box gutter is compatible with all current 165mm adaptors.



Box Gutter Accessories

- PVC adaptors ensure seamless and watertight jointing between the box gutter and PVC gutter
- Gallows and hanging brackets available for extra support when needed

Box gutter adaptor



Hanging bracket



Gallows bracket



Low Pitch Eaves

- Sits lower, and features flowline gutter
- Vventilated wallplate
- Can be used for 2.5 to 5 degree pitches and suitable for raked frames
- Ready assembled interlocking firrings are available

Low Pitch Eaves Beam



Low Pitch Firing



Designed for Large Door Spans



Eaves Beam Suite

Standard Eaves

NEW
Bi-fold Support Beam

NEW
Eaves Super Bolster

NEW
Combined Bolstered Eaves

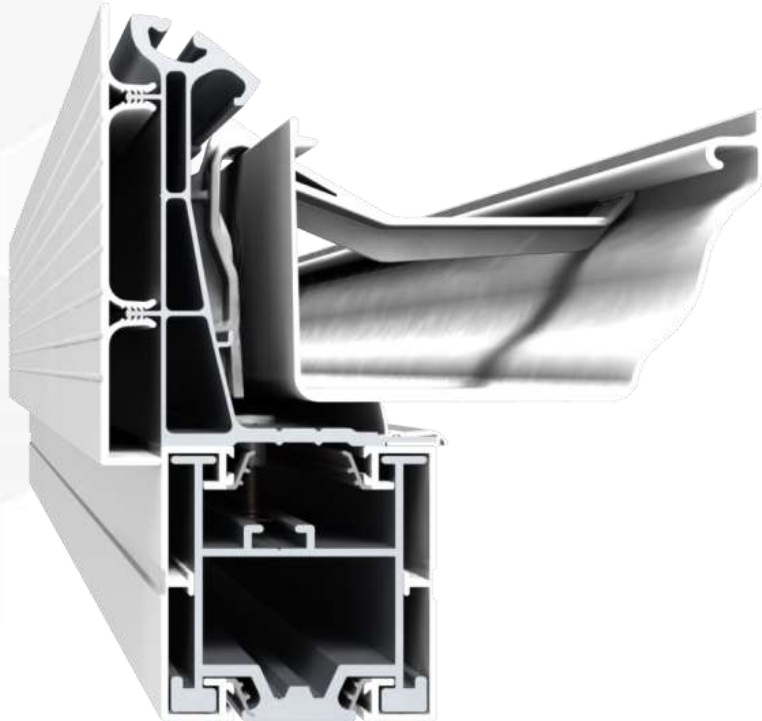
Super-Duty Eaves Beam



Combine standard eaves on most elevations adding bolsters as required on elevations with large openings
Packers may be required for consistent frame height

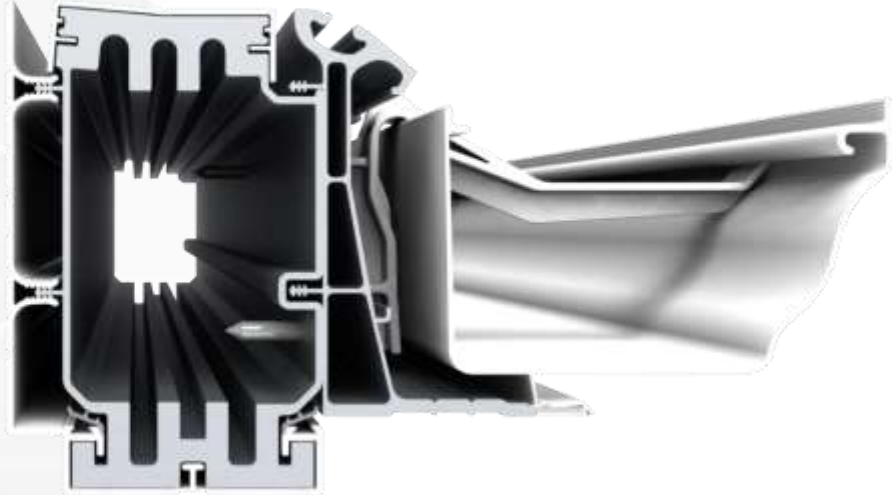
Super-duty eaves is used on all elevations

NEW Bi-fold Support Beam



- Sits under standard eaves beam
- Aluminium Profile / uPVC claddings
- Need only be used on the elevation with the large opening
- Cost effective
- 70mm tall
- Runs between corner posts
- Available in a choice of colours
 - Standard White,
 - Deeplas,
 - Rosewood
 - Light Oak
 - Grey (Smooth)
 - Bespoke

NEW Eaves Super-bolster



- Sits inside standard eaves beam
- Aluminium Profile / uPVC claddings
- Need only be used on the elevation with the large opening
- Reduces the need for Goal posts - Cost effective
- 134mm tall
- Available in a choice of colours
 - Standard White,
 - Deeplas,
 - Rosewood
 - Light Oak
 - Grey (Smooth)
 - Bespoke

Integrated Structural Goalpost

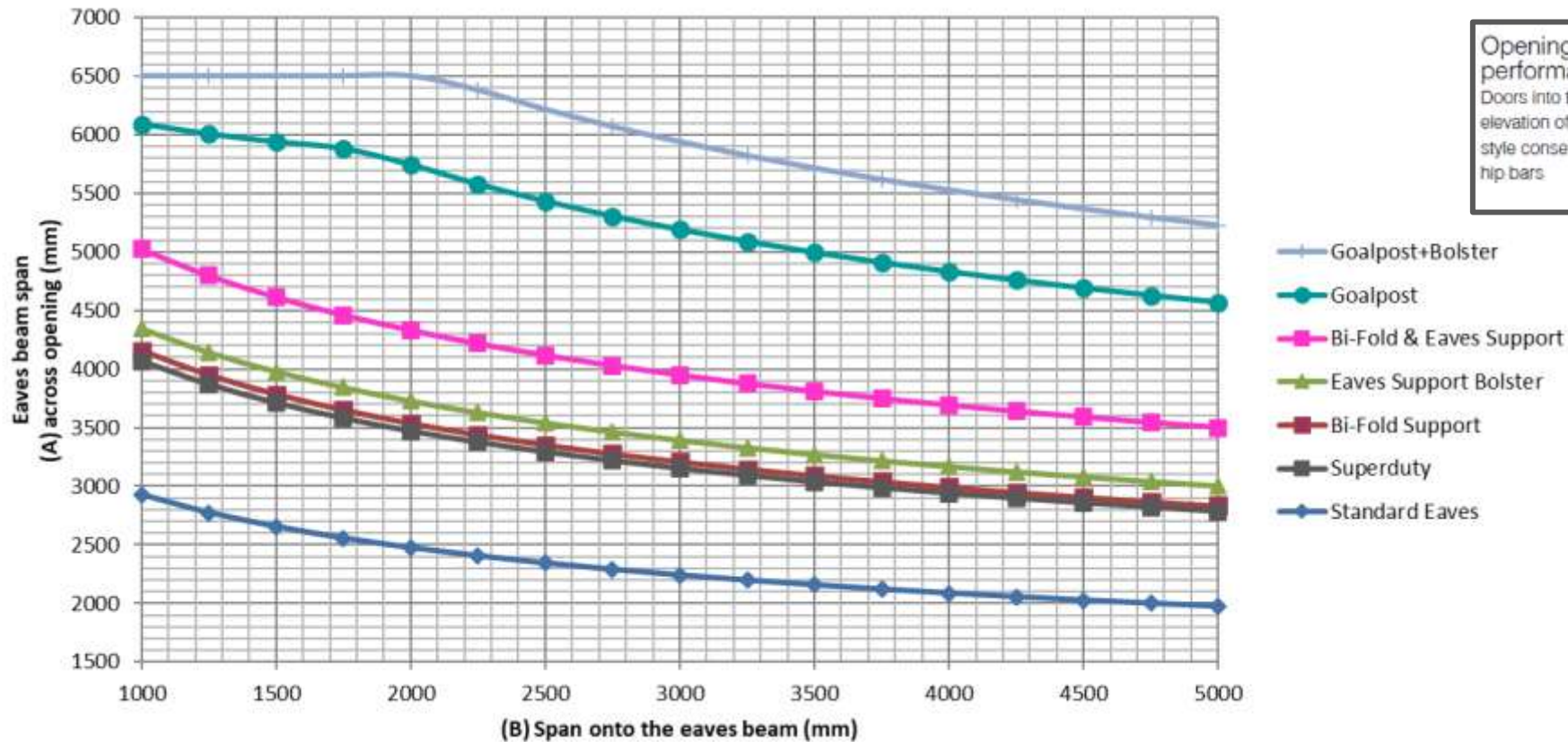
- Designed to eliminate deflection onto wide openings of doors, the integrated goalpost is concealed within the internal pelmet.
- Lightweight and easy to manoeuvre on site and designed to be used with wide door openings and can easily be clad as a simple post or concealed within brick piers or super-insulated columns
- Only available on single or double hipped Georgian roofs when the internal pelmet and cornice are used
- Expanding foam tape (3) allows for a deflection of up to 20mm

1. Aluminium vertical post
2. Aluminium Horizontal Beam
3. Protective Adhesive Expanding Foam Tape
4. Aluminium L-Shaped header Bracket
5. Extra External Fascia Trim
6. Modesty Panel Factory Cut to Fit
7. Internal Fascia Factory cut to fit
8. Protective Adhesive Glazing Packer



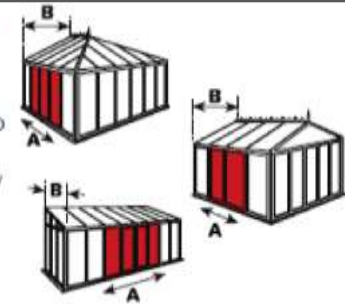
Span Chart – Glass Roof

Glass Roof Eaves Span Chart - Standard Load - Glass (4/././4) - Snow 0.6kN/m²



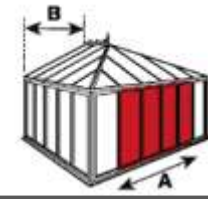
Opening span performance

Doors into the front elevation of a Lean to or a side elevation of a Victorian/Georgian/Gable style conservatory



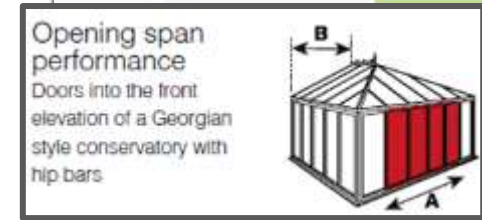
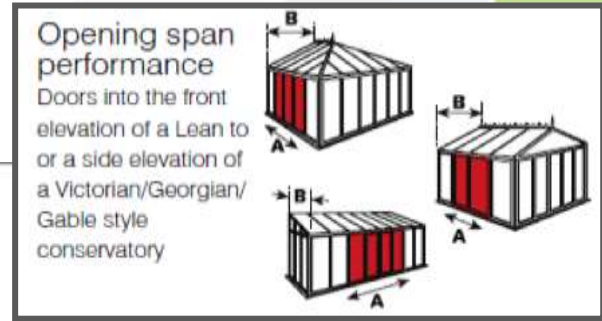
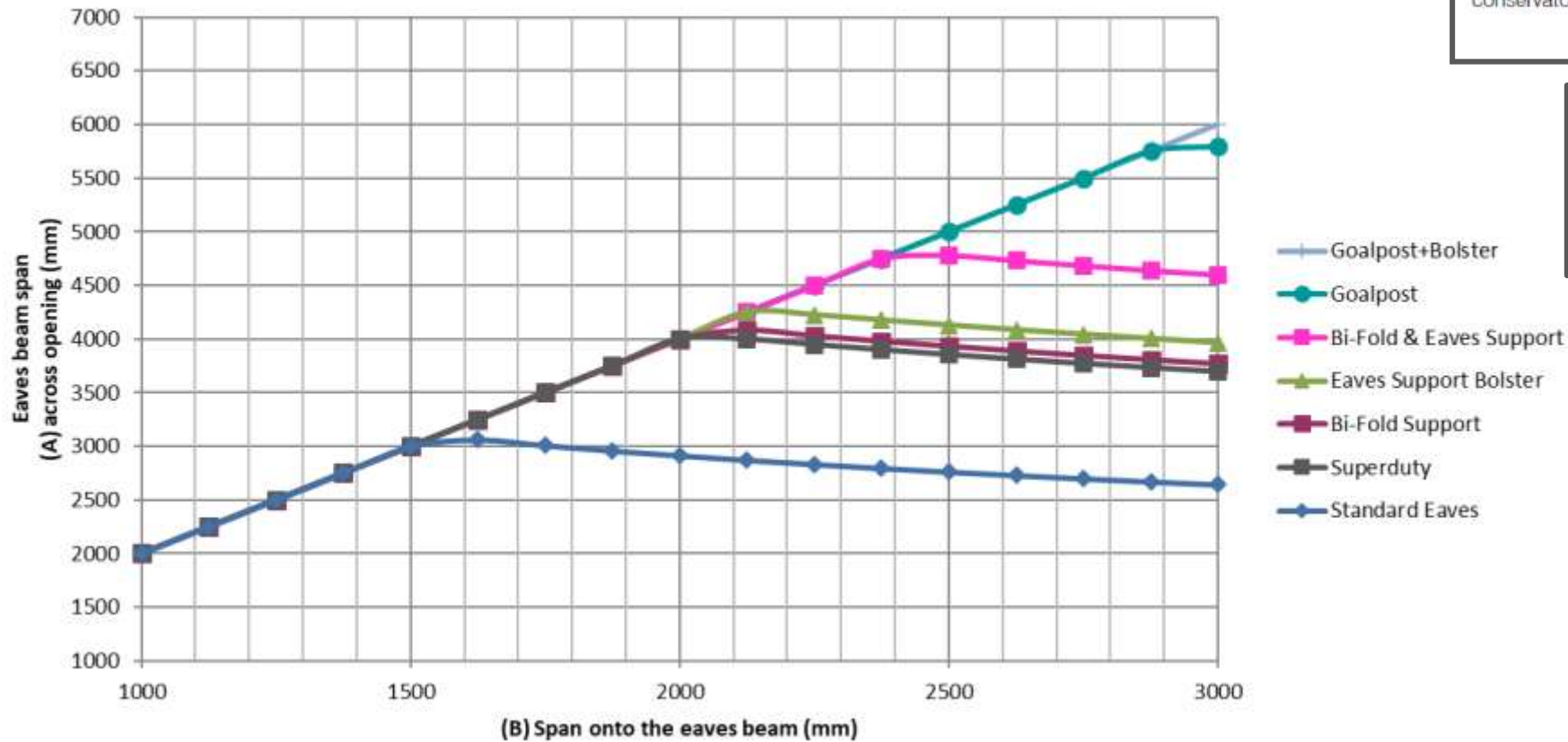
Opening span performance

Doors into the front elevation of a Georgian style conservatory with hip bars



Span chart for openings perpendicular to the ridge

Glass Roof Eaves Span Chart - Standard Load - Glass (4/././4) - Snow 0.6kN/m²



Cresting and Finials - uPVC



Classic finial, Baroque cresting



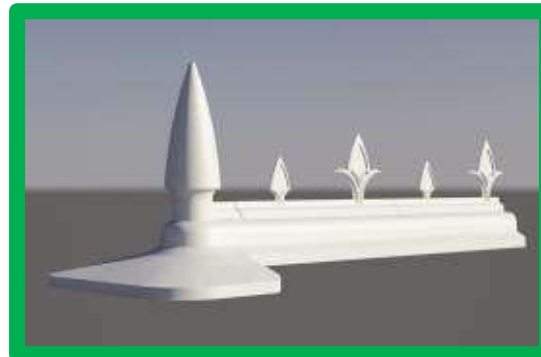
Ball finial, Low profile cresting



Classic finial, Classic cresting



No finial, Low profile cresting

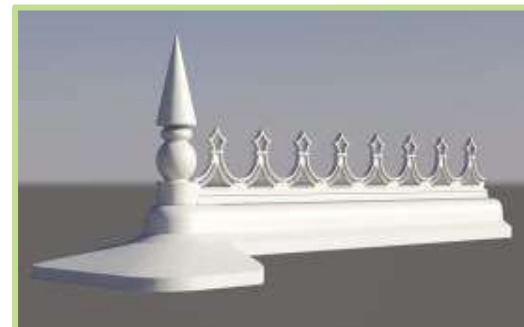


Pikestaff finial, Renaissance cresting



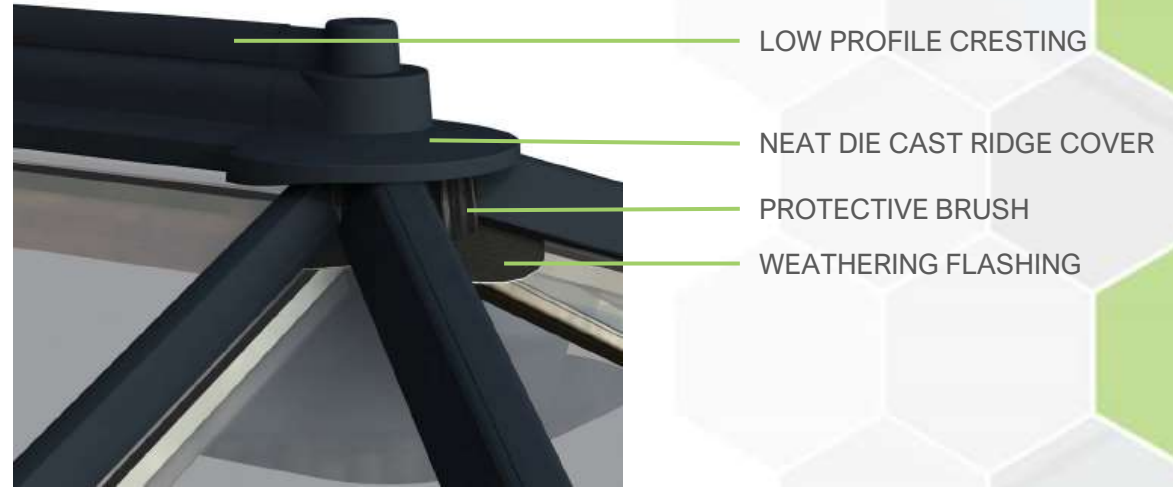
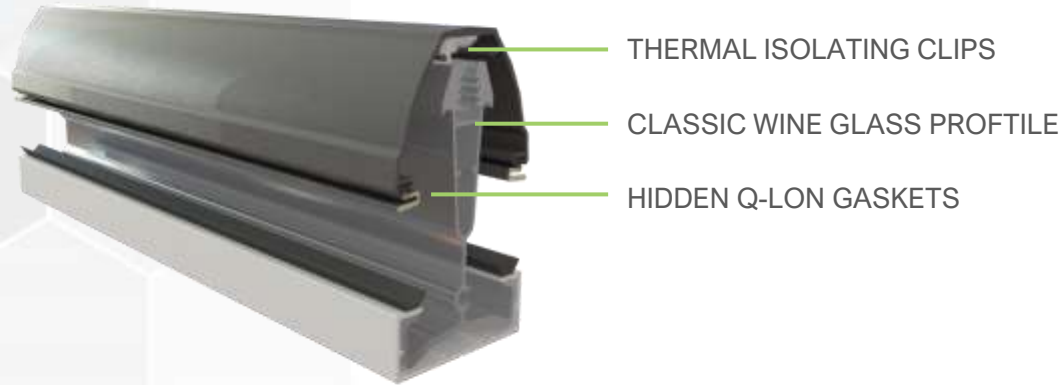
Sceptre finial, Elizabethan cresting

Only the Ball and Pikestaff finials plus the Renaissance crestings are available on browns, light oak and grey roofs. These colours are supplied with an aluminium ridge to prevent fading.



Coronet finial, Tudor cresting

Aluminium Glass Roof System



Upgrades:



- Aluminium Ball Finial
- Aluminium Classic Cresting
- Aluminium Muntin
- Slimline Aluminium Vent

Aluminium - Ridge & Bar Suite

Ridge



Transom



Starter



Hip



Gable Support Beam

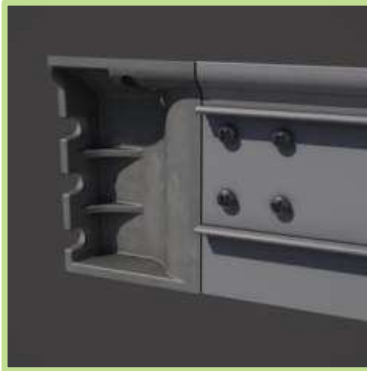
- When doors are placed beneath the gable frame, the support beam offers the additional structural support needed
- It interfaces with the standard eaves beam
- Comes complete with chambered 'wedge' infill's to ensure a neat finish



Tie Bar Replacement Kit

- The Ultraframe Tie Bar Replacement Kit (TBRK) is a highly effective solution to traditional tie bars
- The TBRK kit features five key components -

Eaves bracket



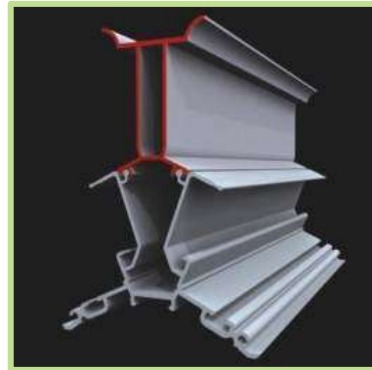
Anchor wall plate



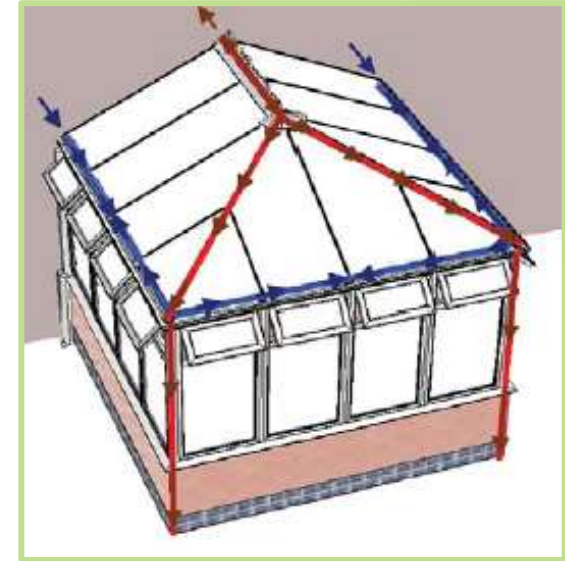
Eaves beam cleat



Ridge bolster



Starter bar reinforcement



The natural forces above are resolved by various elements of the Tie Bar Replacement Kit at critical junctions.

Coloured Foils

- Black, cream, sage green, fir green and grey standard coloured foils
- Grey Foil is available in smooth (to match aluminium frames) or woodgrain (to match timber frames)
- It is also available in the rosewood, light oak and Irish oak
- The roof can be foiled both internally and externally, with the ability to mix colours
- Speedy delivery and a lower cost alternative to powder coated aluminium
- A minority of parts are spray painted i.e. crestring and finial, end caps, roof vents



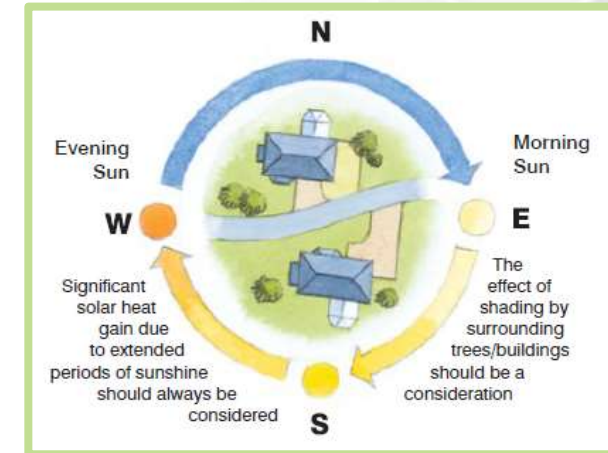
Glazing Options

Polycarbonate

- Available in 25mm and 35mm (clear, opal, bronze, bronze/opal and solarguard)
- 10 year warranty for light transmission and breakage
- Thermally efficient and strong due to multi-wall construction

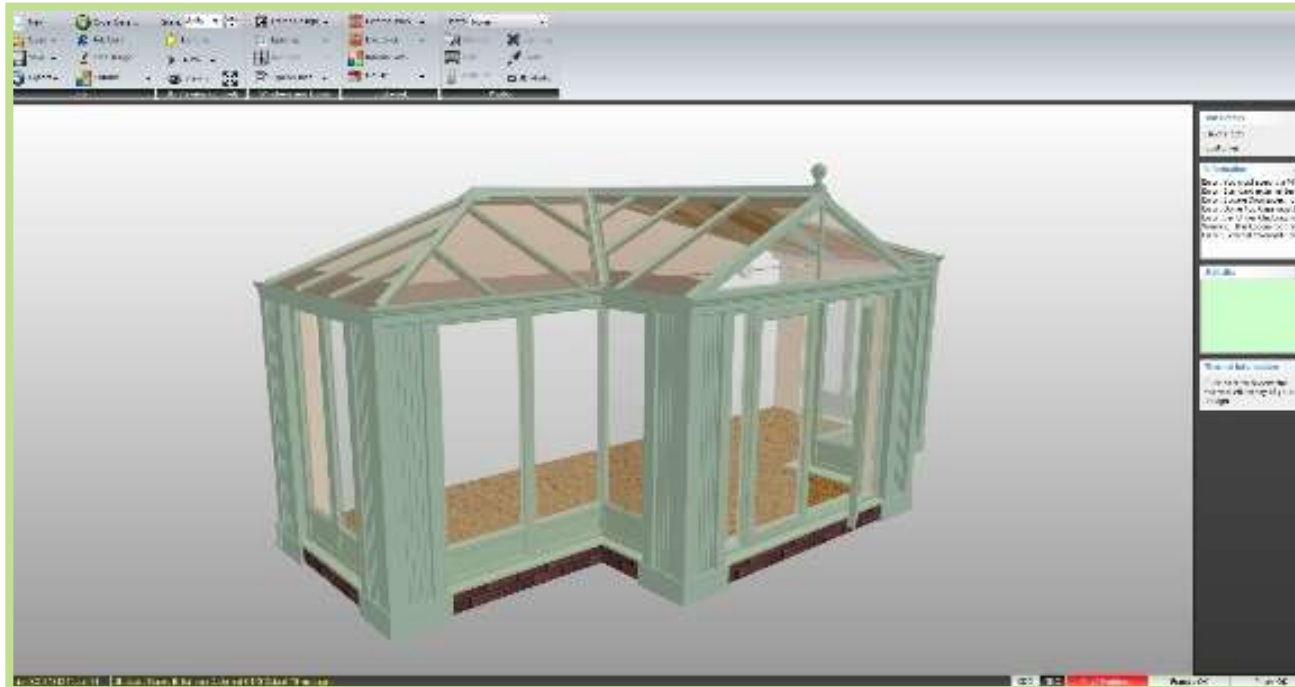
High Performance Glass

	Comparison		Tier 4		Tier 3		Tier 2		Tier 1
	Standard Glass	25mm Polycarbonate	Celsius Elite	Conservaglass Ultra86	Celsius One	Conservaglass Ultimate Blue	Celsius Clear	Conservaglass 4S	Conservaglass Standard
U-Value	2.8	1.7	0.9	1.0	1.0	1.0	1.0	1.0	1.2
Light Transmission	80%	68%	34%	15%	38%	27%	61%	41%	42%
Solar Rejection	25%	45%	83%	86%	83%	80%	58%	67%	60%
UV Protection/ Rejection	25%	45% (bronze)	94%	90%	94%	90%	73%	86%	83%
Toughened to BS EN 12150-1	✓	X	✓	✓	✓	✓	✓	✓	✓
Manufactured to BE EN 1279-2	✓	X	✓	✓	✓	✓	✓	✓	✓
10 year Guarantee	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cleaning	✓	X	Easy Clean	Self Clean	Easy Clean	Self Clean	Easy Clean	Self Clean	Self Clean
Cavity Fill	Air	X	Argon	Argon	Argon	Argon	Argon	Argon	Argon
Warm Edge	X	X	✓	✓	✓	✓	✓	✓	✓
24mm* (4-16-4)	✓	X	✓	✓	✓	✓	✓	✓	✓
Colour tints	✓	✓	Blue	Azure Blue	Blue	Blue	Neutral	Blue, Neutral, Aqua, Bronze	Blue, Neutral, Aqua, Bronze



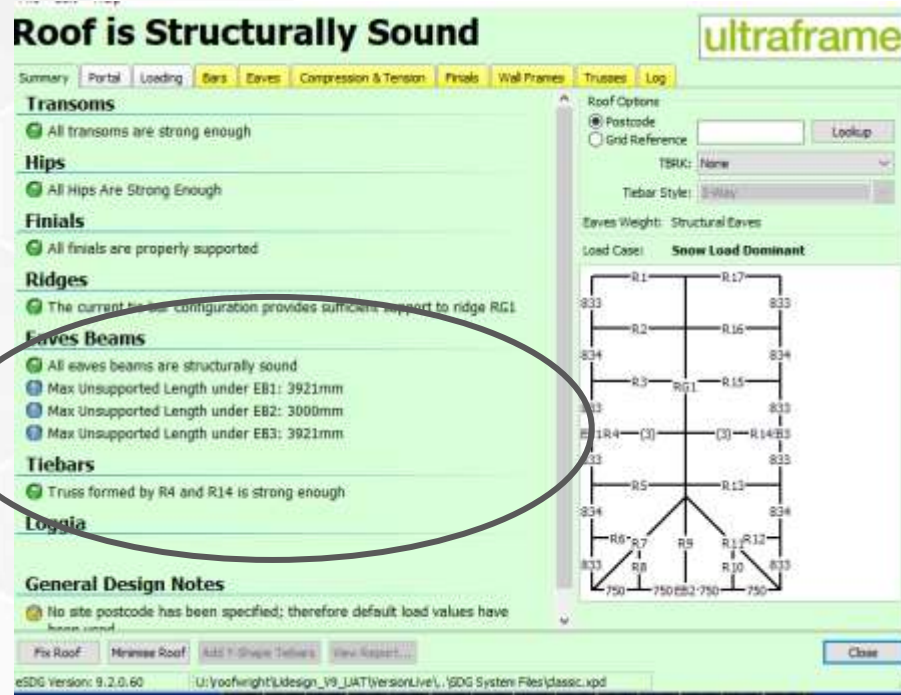
U-Design – Secure Software Design

- Specialist Conservatory Design software – Include full suite of Ultraframe products
- Knowledge of structural specification / paper guide not required
- Validates the design for known site conditions for postcode e.g. wind and snow loads
- Engineers roof for extreme weather rather than standard wind and snow loads
- ‘Fix’ button automatically upgrades rafters and tie bars to ensure roof is structurally sound
- Compliant to BS6339 / Eurocode

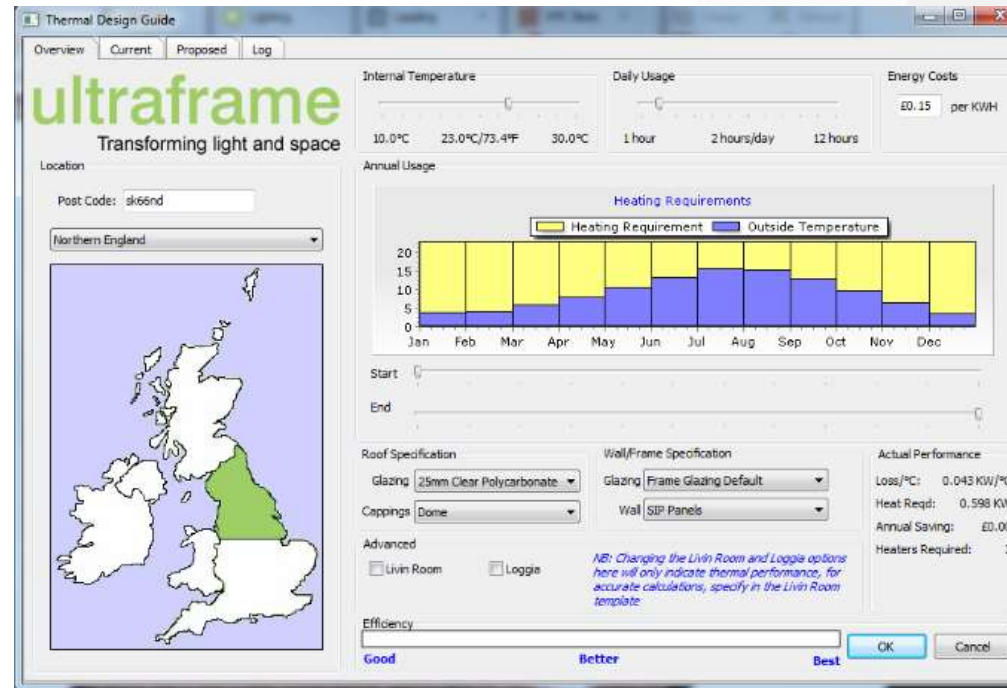


Udesign – Complicated Made Easy

Structural Design Guide



Thermal Design Guide



- Automatically calculates whether the initial roof design is structurally sound based on the extreme wind and snow loads for postcode location.
- Fix button upgrades rafters and tie-bars as required
- Eaves beam section provides maximum door spans for each elevation based on bolsters/beams specified.

- Helps build consumer confidence in the thermal efficiency of the products
- Helps demonstrate energy savings to the homeowner
- Helps upsell added value thermal enhancements like internal pelmet, insulated columns or performance glass.

Glassroof

By Ultraframe

WEATHER TESTED

Watertight in winds up to 130mph

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

EASIEST

The simple and most intuitive roof 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 44°**.
- **Advanced software** to instantly validate structural requirements of any large shapes and complex designs.
- Integrated structural solutions for **large spans** of bi-folding doors.

TRUSTED

The original and most loved glazed roof

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

SAFEST

The only glazed 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 finishes.
- **Finials and crestings** to suit all tastes and budgets.



Glassroof

By Ultraframe