

Ultralite®500 specification

	500 PVC
Modular panel width	500mm
Overall system depth	85mm
Glazing panel depth	60mm
Glazing panel material	PVC
Reinforcement material	Aluminium beam
'U' Value	1.9Wm ⁻² K ⁻¹
Weight	6kg/ m ²
Pitch	2.5° min - 10° max
Glazing panel colour	Opaque
Light transmittance	70%
Ventilated wall plate	Standard
System colour	White, Deepplas or Brown
PVC-U firing kit	Optional (2.5° only)
Stock panel lengths [†]	2m 2.5m 3m 3.5m 4m 5m 6m Optional
MAXI 500 roof vent (manual/electric)	Optional
OPTI 1000 roof vent (manual/electric)	Optional
Roof Blinds	Not to be fitted
FIRE RATING	BS 476: Pt. 3 EXT.FAAX
[†] Lengths between 6-12m - please talk to Sales Office.	

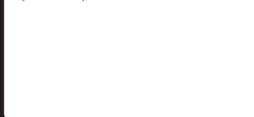
It is Ultralite's policy to continually seek to improve its products, processes and services, and we reserve the right to change specifications without prior notice. Ultralite is a trading name of Ultraframe (UK) Limited.

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ULTRALITE®500
roof in a box®



Buy direct or from your nearest Ultraframe fabricator/distributor:



Ultraframe (UK) Ltd
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Clitheroe,
Lancashire, BB7 1PE

Fabricator First Team tel: 08704 141006
Installer First Team tel: 08704 141002

www.ultraframe.com

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UL001 0703 BRSS 0600



world class conservatory systems

Technical Guide

Version: 3.0
July 05

Ultraframe: world class conservatory systems

For over 20 years Ultraframe have continually been at the cutting edge of conservatory roof systems design and engineering.

innovation

Our extensive design resources are focused on developing products that will keep you at the cutting edge of conservatory roof construction and provide the homeowner with greater style and value for money. All this is aimed at helping you secure more sales and helping your business to grow.

engineering

Everything in an Ultraframe system is underpinned by the soundest of engineering principles. Nothing is compromised, no risk is taken and no corners are cut as we realise that it is the installer's reputation that is at risk as well as our own. At the time when there were no national industry standards, Ultraframe created them. First, by obtaining ISO for quality management systems and then BBA certifications for our roof products.

business support

At Ultraframe we offer our customers the highest level of support. From technical on site assistance and our Customer First team for all phone enquiries, to dedicated regional sales teams and full marketing support.

training

We train then we train again. Not just internal staff but installers, sales teams and surveyors too. Over 1,000 companies per year visit the School of Excellence at Clitheroe or take advantage of our two mobile units touring the country.

ultraframe
ULTRALITE⁵⁰⁰
ROOF SYSTEMS

BBA certified at 2½° is ideal for commercial or domestic use

UltraLite⁵⁰⁰ from Ultraframe is designed for use at just 2½°, the lowest roof pitch attainable in a practical on-site application. This means it can be used on almost any property, even bungalows and awkward shaped dwellings.

UltraLite⁵⁰⁰ incorporates many key features which enhance its performance and give it a significant advantage:

- UltraLite⁵⁰⁰ is a free-spanning system with integral aluminium strengthening bars, making it perfect for large commercial properties as well as homes
- Built-in sun diffusion - no more glare from bright sunlight
- Controllable ventilation system **unique to Ultraframe**
- Clean, uninterrupted lines make UltraLite⁵⁰⁰ ideal for consumers who prefer the understated look of a Mediterranean style conservatory

These features combined help to achieve a comfortable conservatory environment that is cool in summer and warm in winter - the perfect conservatory.

Not only this but to provide you and your customers with total peace of mind UltraLite⁵⁰⁰ comes with:

- **10 year manufacturer's warranty**
- **"Life expectancy of at least 25 years"**, as certified by the BBA



 Ultrafact

Whatever the homeowner demands, Ultraframe has a roof for every style, size, shape or budget.

product in close up

- Ideal for timber, aluminium or PVCu frames, providing flexible solutions for your customers

- Guaranteed for use at a pitch of just 2½° - making it suitable for more properties - highly flexible

- Ultralite®500 is tried and tested, making it quick and easy for you on site

- Excellent light transmission properties (typically around 70%) make Ultralite®500 perfect for everyday use

- Thermally efficient with a U Value of 1.9Wm⁻²K⁻¹ for a comfortable interior environment

- Ultralite®500 has a co-extruded UV stabilised coating for an extra long life

- A free span of up to 4m can be achieved before additional purlin supports are needed

- Optional PVCu firing for 2½° pitches reduces on-site installation times and means there is no need to manufacture complex raked frames

- Standard ventilated wall plate allows for effective ventilation and a comfortable conservatory environment - another plus point brought to you by Ultraframe

- Ultralite®500 is suitable for use with Conservafash™ - the fast & simple flashing system that can save you up to one hour on each installation - unique to Ultraframe

- A fascia fixing kit is specified when there is inadequate head room under the soffit, even at the incredibly low pitch of 2½° that is the minimum for Ultralite®500. The product consists of an aluminium extrusion that fixes the Ultralite®500 wallplate top capping at the fascia position

- As an alternative to the fascia fixing kit, the box gutter solution may be deployed when an Ultralite®500 roof is higher than the slated/tiled bungalow roof to which it is attached

- A Roof vent (one or two panel) provides a fast and effective way for homeowners to ventilate their conservatory and work alongside the standard ventilated wall channel

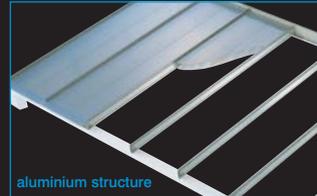
(When using a fascia fixing kit, a built in roof vent is required)



bungalow fascia boxgutter



firing detail



aluminium structure



Conservafash



intermediate bar



wallchannel



fascia fixing kit



roof vent



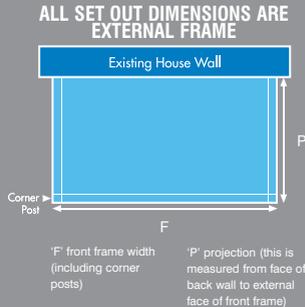
starter bar



WARRINGTON
FIRE
RESEARCH
CENTRE

setting out saves time and money

Careful planning, prior to discussing actual conservatory sizes with your customer, can save time, money, waste and effort. To ensure that common terminology is used throughout, the drawing opposite defines two important measurements that form the basis of your calculations prior to ordering and construction. All UltraLite*500 roof calculations begin with two basic measurements as shown in the diagram opposite.



ordering the correct panel widths

Whenever possible, design the conservatory to use panels in full width (ie modular, thereby saving on time and labour cutting panels) and to the standard panel length.

Designing your customer's conservatory as little as 50mm less in width or projection could lead to a substantial saving due to the use of standard panels.

The table (right) will allow you to calculate the number of panels required for the system and to determine how to work to modular widths.

Number of Packs	Number of Panels	Front Frame Width(F)
2	=4	2052
3	=6	3052
4	=8	4052
5	=10	5052
6	=12	6052
7	=14	7052
8	=16	8052
9	=18	9052
10	=20	10052

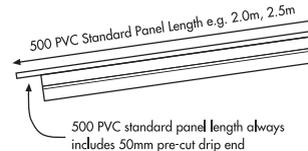
The above 'set out' dimensions are based on using UltraLite*500 at 2 1/2° pitch and takes account of the drip end overhang and the ventilated wallplate offset.

split packs available

Panel packs contain 2 standard panels, with a nominal coverage of 1000mm. The dimensions below also take into account the starter bar allowance of 52mm applicable to UltraLite*500 roofs. When split packs are used, simply multiply the number of panels by the panel width of 500mm and add the 52mm starter bar allowance. For example, 3 1/2 packs (7 panels) is 7 x 500mm + 52mm = 3552mm.

ordering the correct panel lengths

It is important to match as closely as possible the required length to the standard panel length. Careful conservatory design such as this can lead to a material cost saving.



Factoring in a 2 1/2° angled roof pitch, a standard 2.0m panel of UltraLite*500 will give a projection of 1976mm to the external face of the front frame, and so on.

These 'set out' dimensions also take into account the drip end overhang of 50mm and the ventilated wallplate offset.

At 2 1/2°, the rise is 44mm per metre of projection, ie for a 6m projection it will be 264mm, plus 177mm for wall plate and top cap.

Standard panel length	Actual Projection (P)
2.0m with PVCu firing	1976
2.5m with PVCu firing	2476
3.0m with PVCu firing	2975
3.5m with PVCu firing	3475
4.0m with PVCu firing	3974
5.0m with timber firing	4973
6.0m with timber firing	5972



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ULTRALITE*500
roof by a bar

Ultrafact

UltraLite*500 can be fitted to almost any property due to its 2 1/2° minimum pitch.