

Ultralite

2.0 by Ultraframe

Technical Guide

V2 / September 26



Engineered
Performance



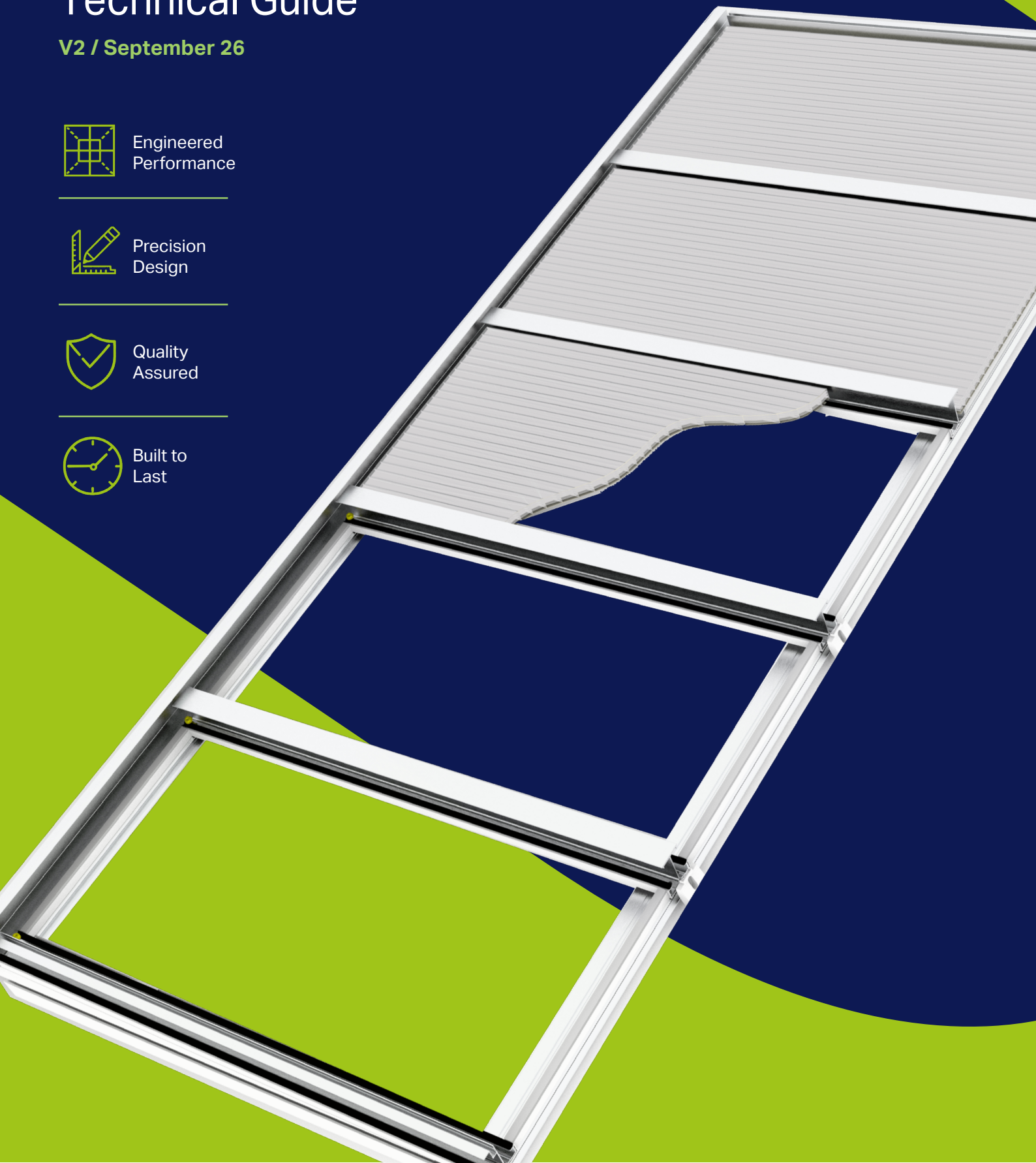
Precision
Design



Quality
Assured



Built to
Last



Ultralite 2.0 has been developed to provide a cleaner, stronger and easier-to-install low-pitch roofing solution. The system now features 25mm opal polycarbonate panels, modern square chambered top caps, ventilated wall plate undercladding and a new integrated curved fascia.

Designed for pitches from 2.5° to 10°, Ultralite 2.0 is suitable for a wide range of house roof and lean-to applications.

Panels

- 25mm opal polycarbonate
- Light-diffusing roof finish
- White bars and parts

Structure

- Chambered square top caps
- Stronger modern bar design
- Integrated curved fascia

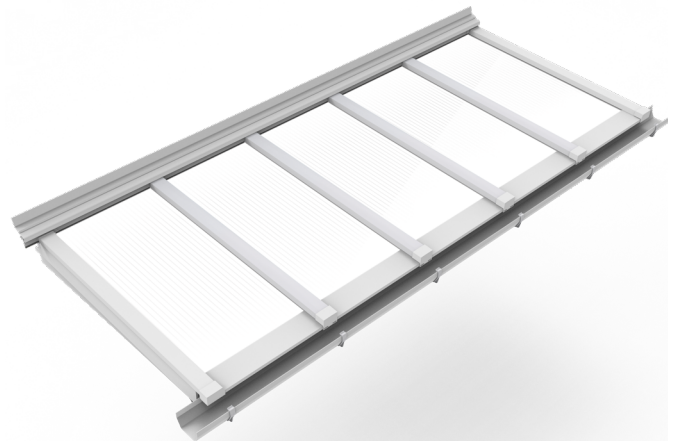
Installation

- Bolt-slot setting-out jigs
- Easier drilling and bar preparation

Excellent glazing performance perfect for everyday use.

- Glazing U-Value: 1.7 W/m²k
- Light transmission: 15%
- Colour: Opal

Where an existing Ultralite500 roof is being replaced, installers may be able to retain the metal wall plate at the house wall and fix the new Ultralite system to it. Existing flashing may be retained or carefully peeled back, subject to site conditions.

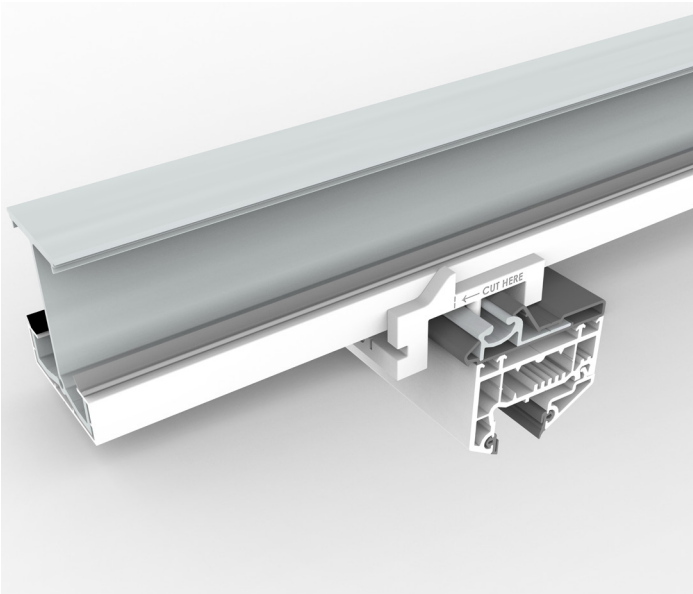


For assistance with roof design or specification please contact the Technical Support Team on **01200 452918** or email techsupport@ultraframe.co.uk

Ultralite 2.0 system introduces clearer setting-out and preparation features to support faster, more consistent installation on site. New jigs help identify where to cut the bar to the correct length and where to drill for the undercladding, reducing guesswork during installation.

Bar-cutting jig

Helps installers cut bars to the correct length without the need for measuring.



Bolt hole cutting jig

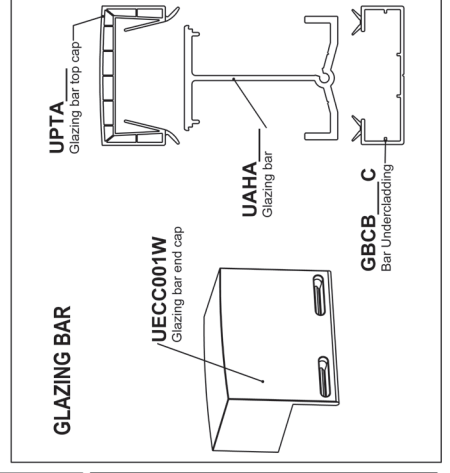
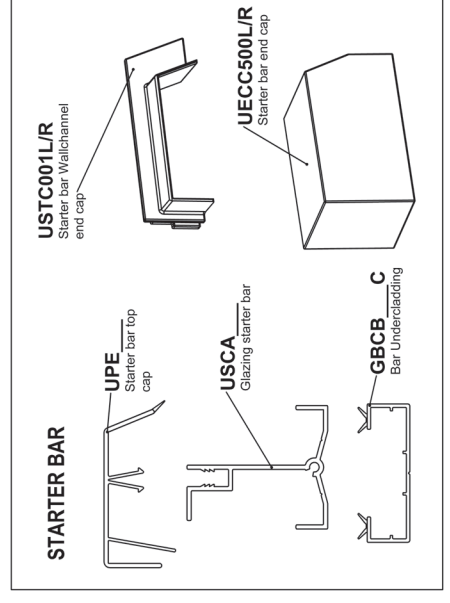
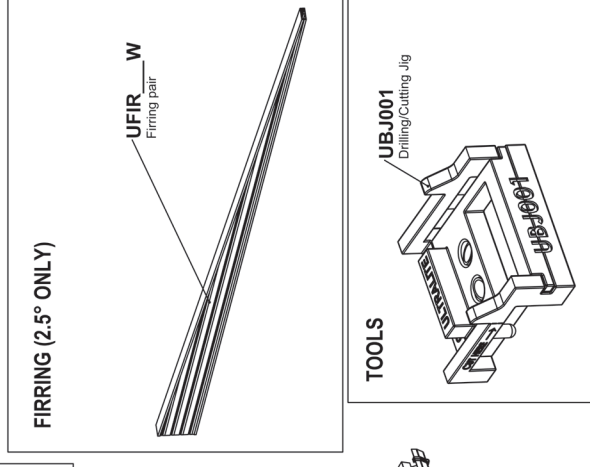
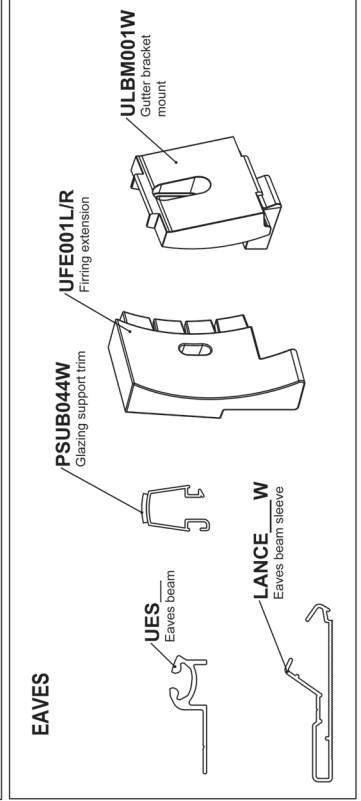
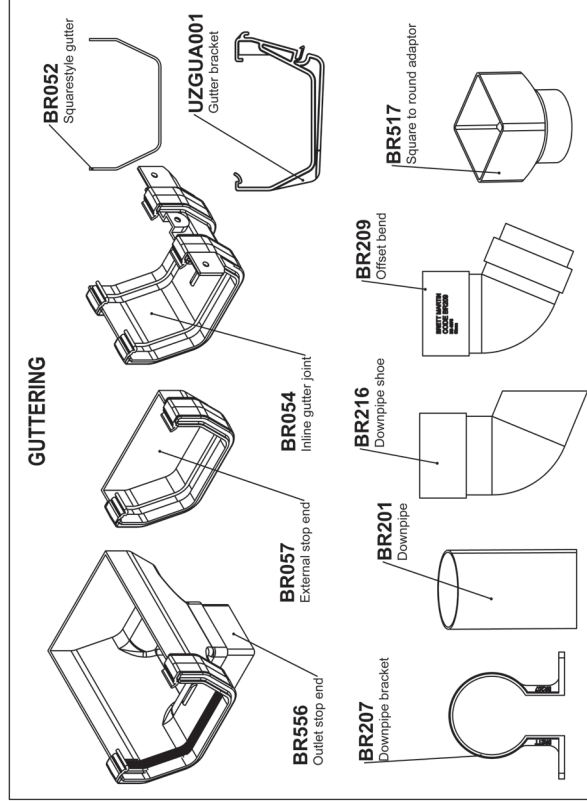
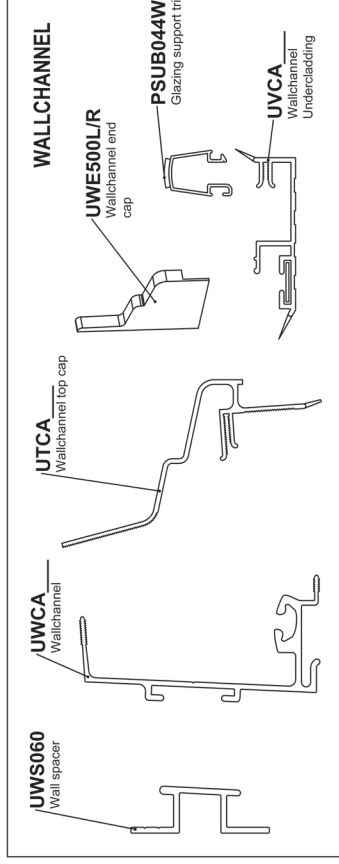
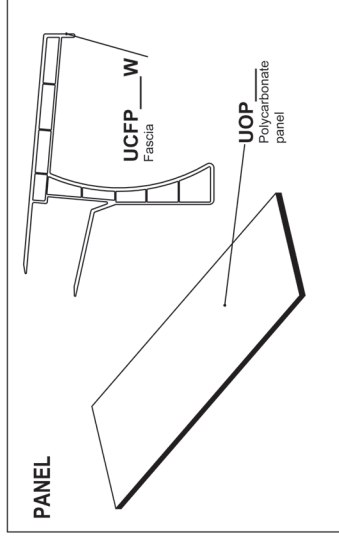


What's not included

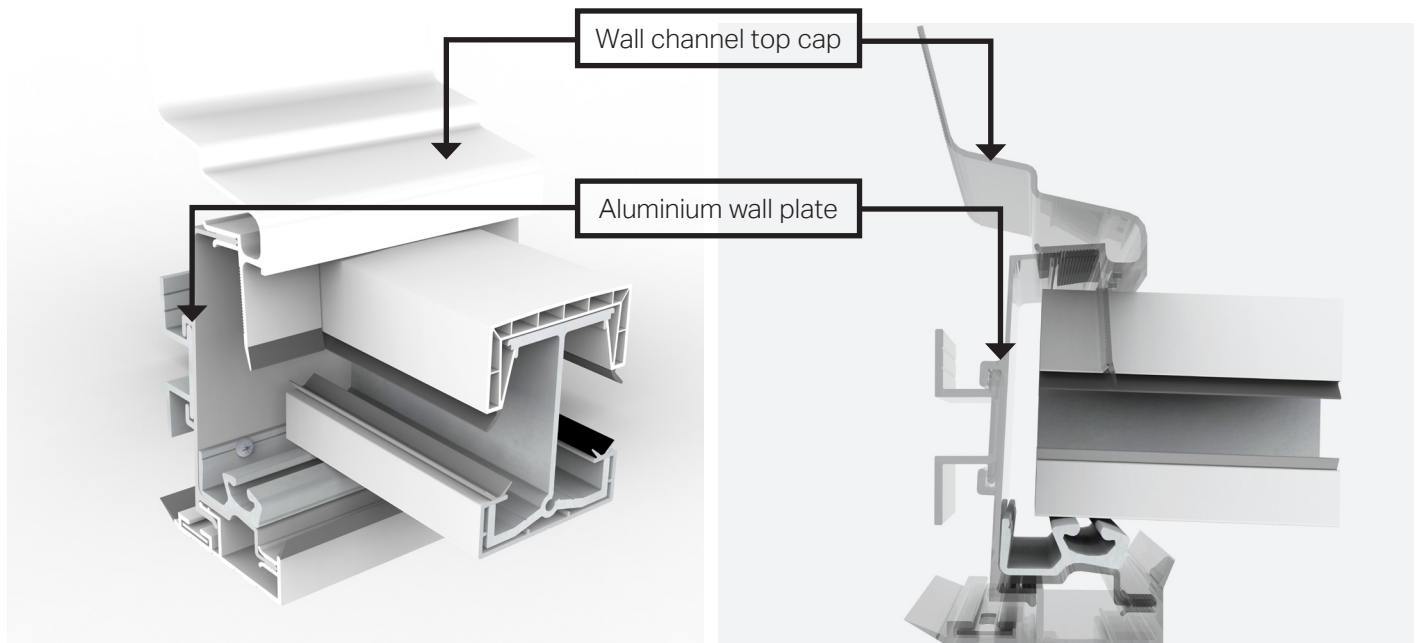
- 9mm fascia board for capping side of starter bars
- Lead flashing for ridge
- Fixing for between Ultralite 2.0 and host wall / frames
- Sealant (low modulus neutral cure brand of silicone must be used)

Ultralite

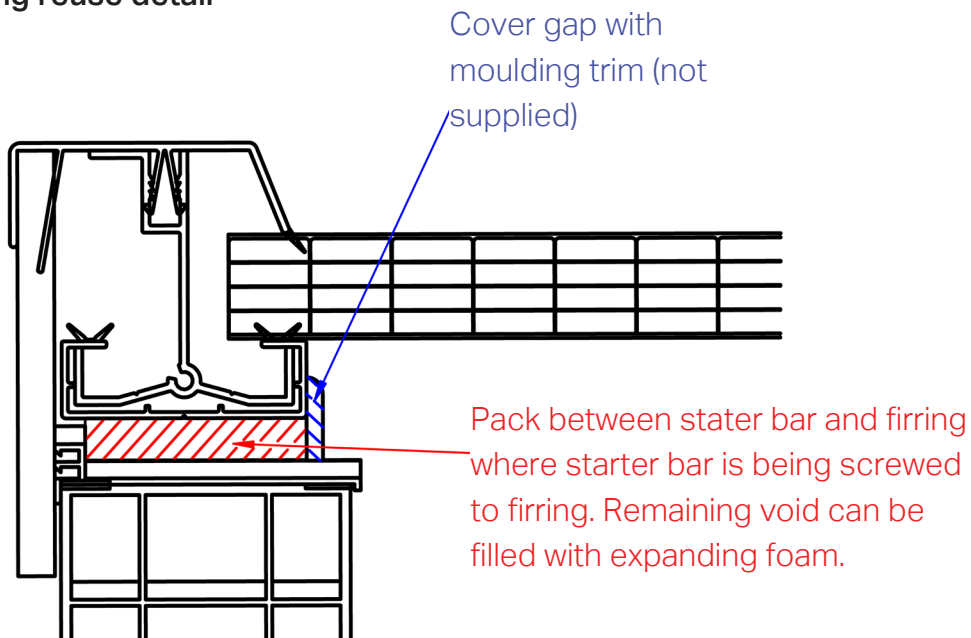
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To replace a current Ultralite500 roof, you can use the existing aluminium wall plate, wall channel top cap, and lead flashing (if suitable). Then replace the rest of the roof with the Ultralite 2.0 panel replacement kit.



Furring reuse detail



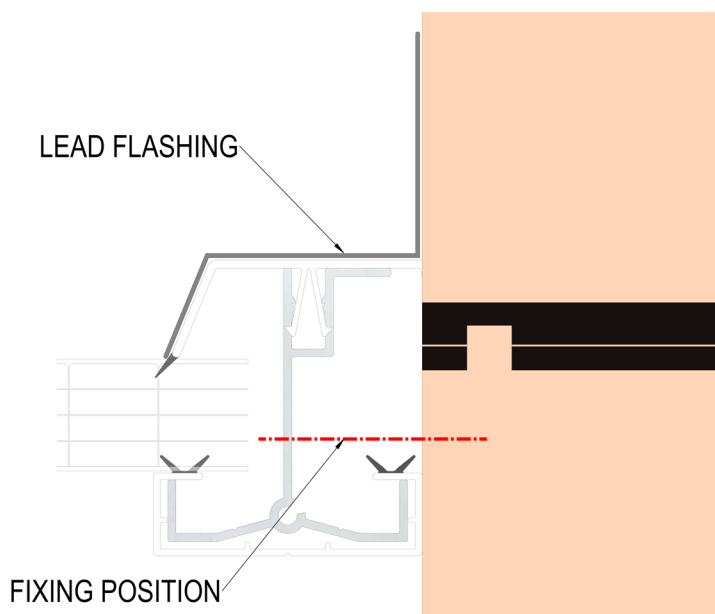
The overall span of the Ultralite 2.0 is 60mm greater than the sum of widths between bar centres. The centre of the starter bar will be 30mm in from the outer edge of the frames.

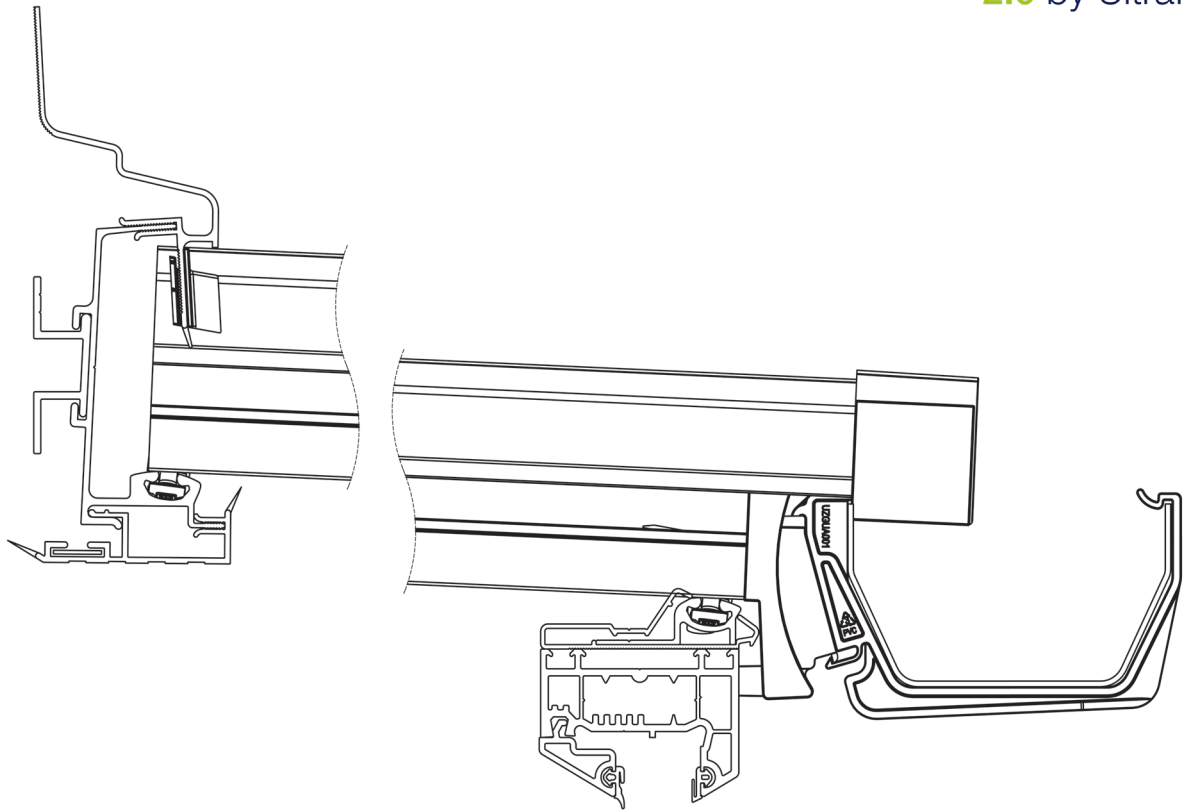
Example: 4m width kit has maximum span of $4000+60 = 4060\text{mm}$.

Standard kit width (m)	Maximum span (mm)
2	2060
2.5	2560
3	3060
3.5	3560
4	4060
4.5	4560
5	5060
5.5	5560
6	6060

WALL ABUTMENT

Where the roof finishes against a wall, use the wall abutment detail below. The additional fixings into the wall should be done after the bar is mounted to the eaves and ridge. Taking care not to fix too tightly to wall to avoid bend the starter bar, the bar can be packed out from the wall locally at the fixing points if needed.





The maximum achievable projection of each kit length for a specific pitch is calculated by the following equation:

$$\text{Projection Max} = \cos(\text{Pitch}) \times \text{Panel length} + 30$$

Example: Panel length 3.5m and pitch of 3.25°

$$\text{Projection_Max} = \cos 3.25 \times 3500 + 30 = 3524 \text{ mm}$$

Below is a table of values for this.

Panel length / Pitch	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
2000	2028	2027	2026	2025	2024	2022	2021	2019	2017	2015	2013	2011	2008	2005	2003	2000
2500	2528	2527	2525	2524	2522	2520	2518	2516	2514	2511	2509	2506	2503	2499	2496	2492
3000	3027	3026	3024	3023	3021	3019	3016	3014	3011	3008	3004	3001	2997	2993	2989	2984
3500	3527	3525	3523	3521	3519	3517	3514	3511	3508	3504	3500	3496	3492	3487	3482	3477
4000	4026	4025	4023	4020	4018	4015	4012	4008	4004	4000	3996	3991	3986	3981	3975	3969
4500	4526	4524	4522	4519	4516	4513	4509	4505	4501	4496	4492	4486	4481	4475	4468	4462
5000	5025	5023	5021	5018	5015	5011	5007	5003	4998	4993	4987	4981	4975	4968	4961	4954
5500	5525	5522	5520	5517	5513	5509	5505	5500	5495	5489	5483	5476	5470	5462	5455	5446
6000	6024	6022	6019	6015	6012	6007	6002	5997	5991	5985	5979	5972	5964	5956	5948	5939

The red is to highlight configurations where you cannot achieve a projection as big as the length of the kit (e.g. a panel length of 6000mm at 7.5° can only achieve a span of 5979).

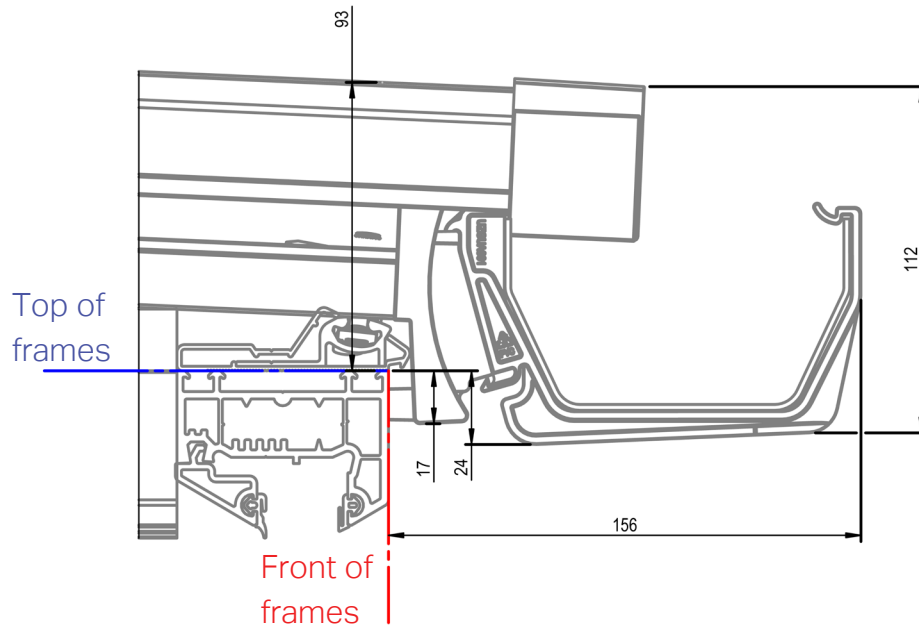
Item	Specification
Panel material	25mm opal polycarbonate
Bar / parts colour	White
Pitch range	2.5° to 10°
Top caps	Square chambered top caps
Undercladding	Classic glass roof-style undercladding
Wall plate	Ventilated undercladding at wall plate
Fascia	Integrated curved fascia
Gutter	New square gutter
Gutter brackets	Clip in gutter brackets
End caps	New end caps, sitting over into gutter
Replacement use	Existing metal wall plate may be retained where suitable

PRODUCT IMPROVEMENTS

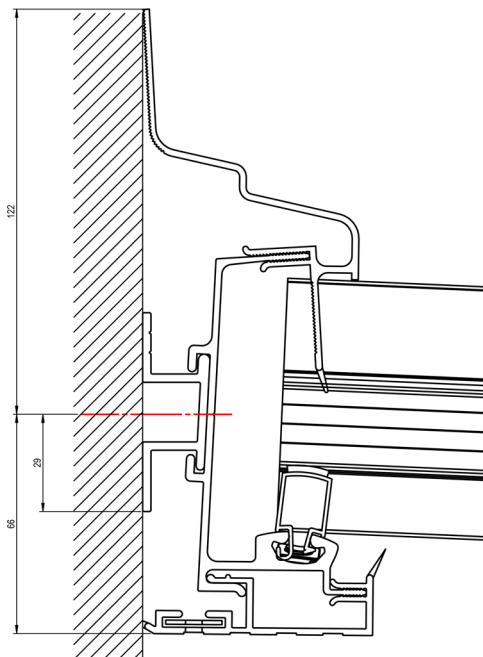
Ultralite 500 (Current)	Ultralite 2.0 (New)
60mm PVC panels	25mm opal polycarbonate panels
Single-skinned top caps	Chambered square top caps
M-shaped cap profile	Modern square cap profile
No internal undercladding	Uses Classic-style internal undercladding
Installer judged drill positions on site	Setting-out jigs show where to cut and drill
Separate end detailing	Integrated curved fascia with glazing end caps

Both diagrams are showing a 2.5° arrangement.

Eaves datum detail

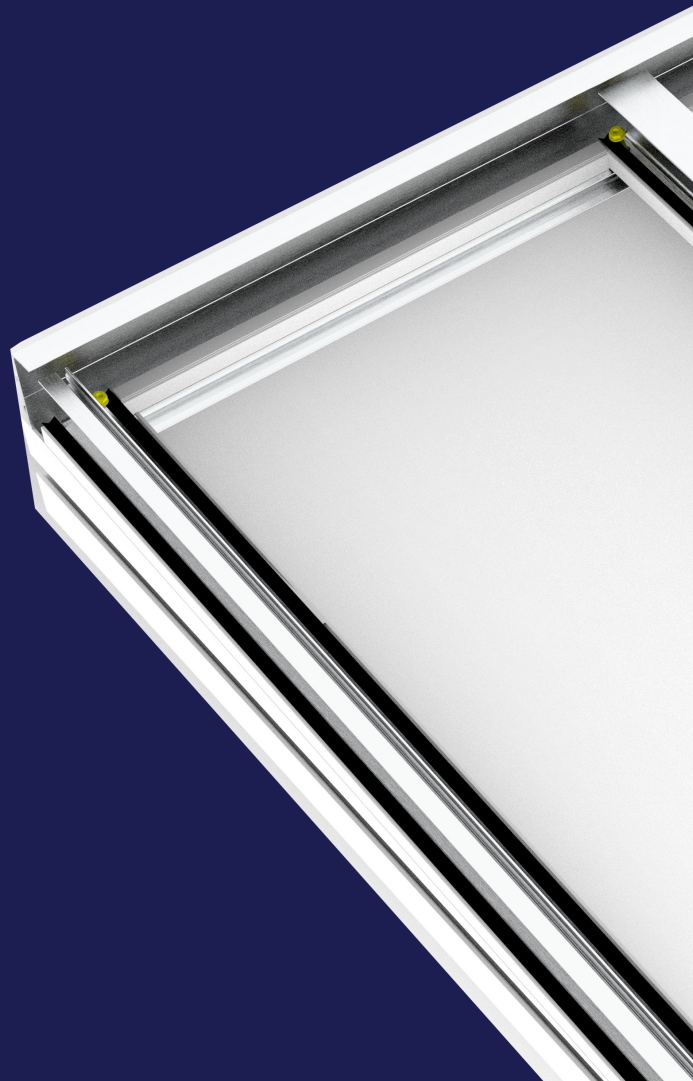


Ridge detail



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