

Super duty eaves beam and aluminium folding/sliding doors

Version: 2.0 May 2010





Consumers enjoy their conservatories because of the unique way they add light and space to a home. Equally important is that it brings the home and garden together, blurring the margin between inside and outside space.

The introduction of folding/sliding doors into the UK conservatory market is adding further benefits to those already enjoyed by homeowners with a conservatory. In place of the single leaf or double door set – with obvious width restrictions – consumers can now buy the much wider 'bi-fold' type doors that effectively open up virtually a whole side of a conservatory.

To enable the confident use of these sliding/folding doors, Ultraframe has introduced a new 'Super Duty' aluminium eaves beam which allows additional span widths before a goalpost arrangement 'kicks in'. If you would like the Super Duty aluminium eaves on your next conservatory, please complete the roof order form on page 10 (or speak to your fabricator/trade supplier).

If you require extra wide openings – beyond the span capabilities of the Super Duty eaves beam - Ultraframe can design, structurally prove, fabricate and powder coat a custom support arrangement that meets your exact needs. For further help with this option please call **0870 414 1002.**

Non standard designs are possible - please ask



Typical detail - Actual detail may vary



Typical detail - Actual detail may vary



Technical Specification - Super Duty Eaves Beam



IMPORTANT NOTE FOR FITTERS

Super Duty Eaves Beam sits 38mm higher and eaves beam is further 25mm 'in board' of the frames

The Super Duty Eaves Beam allows confident specification of folding/sliding doors (or indeed any type of opening such as inline sliders where additional spanning performance is needed).

- Structural 'beefier' aluminium profile that uses existing pvc components to clad and cap for optimum performance
- Sits 38mm taller than the standard eaves beam (remember this when calculating overall ridge heights). Be aware especially where height is critical, such as where windows above may foul or overhanging bungalow fascias.
- 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 (this is critical when calculating the uplift price)
- Readily interfaces with box gutters and Gable Support Beam, to offer maximum integration and configurability
- Can be specified at pitches from 5-40° and in all existing Ultraframe Classic colours
- The span charts on the page opposite 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 your 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 – please call 0870 414 1002 if you need a custom solution.

IMPORTANT NOTES FOR DESIGNERS/SPECIFIERS

1. We advise that a support post (not supplied) is used each side of the doors – this needs to attach to the Super Duty Eaves Beam and attach to the floor slab. It is the responsibility of the conservatory designer/specifier to provide full lateral and vertical support for the Super Duty Eaves Beam – loads are likely to be higher than conservatory retailers are used to.

2. The engineering performance of the Super Duty Eaves Beam is optimised for use with Ultraframe's aluminium bi-fold door offering.

All of the span charts published for the Super Duty Eaves beam are based on a maximum deflection of 7mm under full structural load, and the Ultraframe bi-fold doors can accommodate this degree of deflection without catching. However, many alternative bi-fold doors are not designed for conservatory use, but to only sit inside lintel supported masonry openings where the deflections are minimal. Where these alternatives are used in conservatories, it is necessary to check with the system company/fabricator whether they can accommodate 7mm of deflection without catching.

Unfortunately, not considering this at the design stage can be very costly as it's not possible to easily rectify this once the doors are installed and catching.

The selection of what may appear to be bi-folds with an eye catching price may cost you more in the long term as a steel beam will probably be required to reduce deflection – clearly this is costly. Ignoring the issue of deflection may result in a disgruntled consumer, expensive call backs and remedial action.

To order your Classic roof featuring the Super Duty Eaves Beam, please complete the order form on page 10 and fax back to 0800 013 1939

Structural span performance



All configurations in the shaded area have an opening span the full width of the conservatory

Super Duty Eaves Beam - Assembly details

Surveyors/conservatory designers/fitters should read these notes and drawings. Whilst some of the details are provided for roof fabrication businesses, All of these drawings need to be understood by the on



Standard Eaves Beam

Super Duty Eaves Beam

Inline jointing - Eaves Beam to Eaves Beam

- This detail is to be used when a run of eaves beam is greater than the maximum single stock length (6m)
- Spliced joints are to ensure accurate alignment of 2 extrusions
- When specifying spliced joints precautions must be taken to ensure that adequate support is provided beneath the joint
- Never place joints over doors
- Each spliced joint must be secured using 8 M6x16mm taptite screws (SFS001)
- Consult Ultraframe technical department for joint position advice



Inline jointing - Eaves Beam to Box Gutter

- To assist alignment with the box gutter, SES002 fitted to SEB---
- SEB004 fited to SEB---
- Remember to ensure that SEB 003L/R is supplied
- Beware of the extra 38mm to the underside of the box gutter when ordering corner posts and other materials to fill the void below the box gutter
- Left hand joint shown with SEB 003L in-situ SEB to the left and box gutter to the right when viewed from inside the conservatory







90° mitre - Eaves Beam to Gable Support Beam



Specification

- SMART Systems aluminium powder coated profiles
- 3-4-5-6 panel configurations available right to left or left to right opening
- Traffic doors to left, right or central pairs
- Maximum width 6000mm opening, minimum opening1800mm
- Maximum sash size is 1000mm, minimum 600mm
- Standard opening height is 2100mm, maximum height is 2500mm
- Colours white is standard, other colours are available from the RAL colour chart.
- Doors are glazed with 28mm sealed units with a silver spacer bar centre pane 'U' value of 1.2.

IMPORTANT NOTES FOR DESIGNERS/SPECIFIERS

1. We advise that a support post (not supplied) is used each side of the doors – this needs to attach to the Super Duty Eaves Beam and attach to the floor slab. It is the responsibility of the conservatory designer/specifier to provide full lateral and vertical support for the Super Duty Eaves Beam – loads are likely to be higher than conservatory retailers are used to.

2. When using Ultraframe's SMART system aluminium doors in conservatories, we strongly advise that this is in combination with the Classic roof system Super Duty Eaves Beam .

All of the span charts published for the Super Duty Eaves beam are based on a maximum deflection of 7mm under full structural load, and the Ultraframe bi-fold doors can accommodate this degree of deflection without catching.

However, many alternative bi-fold doors are not designed for conservatory use, but to only sit inside lintel supported masonry openings where the deflections are minimal. Many of these alternatives cannot accommodate 7mm of deflection without catching.

The selection of what may appear to be bi-folds with an eye catching price may cost you more in the long term as a steel beam will probably be required to reduce deflection – clearly this is costly. Ignoring the issue of deflection may result in a disgruntled consumer, expensive call backs and remedial action.

Options

- Aluminium cills no cill is supplied as standard choose from 150mm or 190mm
- Track choose from an exposed weathering or sheltered elevation option
- Ventilation this is in the form of a continuous slot vent in a 42mm add-on profile (profile can be left or right, top or bottom).
- Drainage no drainage is provided, specify face drainage
- Door stacking 'stack in' or 'stack out'



Door Configurations

Doors can be specified from one of three types - a straight forward sliding door, a standard hinged door or a sliding traffic door. All doors can fold/slide to left or right and can be ordered to stack in or stack out



To order folding/sliding doors, please complete the order form on page 11 and fax back to 0800 013 1939

Classic

Company Name >

Order Number ≽.....

Job Reference ≽.....

Telephone No. ►....

Fax No. >

Company Contact ►.....

Delivery Address ➤...... Delivery Date Req ➤.....

Quotation Ref

Account No.

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GLAZING BAR OP	TIONS										
TOP CAPPINGS				UNDERCLADDINGS							
Standard Caps Chambered Dome Chambered Bevel Standard Decorative											
EAVES BEAM	FASCIA CLADDI	NG	EAVES O	PTIONS	PTIONS GABLE BEAM BWP BOX GUTT						
Standard Super Duty (For Bi-Fold Doors)	Standard V Groove Super Duty Ultraselect (For Bi-Fold Doors) State Design >			/ ulding ves Only)	Full gable 🗌 Lean-to 🗌	Square Round	e □ 165 □ □ Othe	165mm 265mm Other (Please show on drawing)			
GLAZING OPTIONS											
GLASS UNGLAZED Glazing supplied by others											
ANTI SUN (1.2) ANTI SUN (1.5) CLEAR A1 (Blue) A2 (Grey) B1 (Blue) B2 (Grey) C1 (1.2) C1 Image: Comparison of the second seco				CONSERVAGLASS Poly 25mm Glass 24mr 1.5) Subtle Blue Neutral Clear Poly 25mm Glass 24mr Image: Im							
POLYCARBONATE			SPAC	ER BAR COLOUR GLASS UNITS ROTABOND SEALANT (MS POL)							
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Renaissance Class	ic Tudor Baroqu	ue Elizabethai	n Low pro	file Pikes	taff Classic		t Sceptre	Low profile			
ADDITIONAL OPT	IONS										
TIE BARS		CONSERVA	FLASH	ROOF VENT	r	ANC	CILLARIES				
Roof Colour Brass TBRK (If possible) Yes Soaker Only I I I I Image: Colour State of the state				Mechanical Brass Chrome Electrical Switch							
PLEASE SIGN BEL	OW & FAX BACK	TO 0843 208	6945								
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Sliding/Folding Doors Order form

v1.0 Sept 08

Account N	Account No.										
Company Name >		Overall Width >									
Order Number ≽		r		+ I	- -	+	- -				
Job Reference →				 	 						
Company Contact >											
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	DV70 Non-Weathered 30mm	$\Box Other (RAL) \ge$	☐ White gloss ☐ White gloss			k 🗌 Silver					
TRICKLE VENT	CILL	DRAINAGE	GLAZING		SPACER BAR						
🗌 4000mm	□ None □ 150mm		28mm units	☐ Size only no glass ☐ Silver ☐ Bronze ☐ Gold ☐ Other ➤							
8000mm	, 🗌 190mm		(1.2 ° Value)								
	Door Configurations Doors can be specified from on sliding traffic door. All doors can BFD003 B ▼2/3 pane ▼4 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	S e of three types - a straig n fold/slide to left or righ FD004 pane	ght forward sliding door, a s t can be ordered stack in o BFD005 5 pane	standard hing r stack out BFD0 ▼ 6 pa ↓ ↓ ↓ ↓ ↓ ↓ ↓	ged door or D06 ne						

ultraframe





www.ultraframe.co.uk

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