ultraframe

Transforming light and space

LOGGIA

THE CONSERVATORY REDEFINED

Window & Door Products

Orangery Products

Home Extension Products

Conservatory Products

Skylight Products

Super Insulated Columns

System Overview and Design Guide

LOGGIA

THE CONSERVATORY REDEFINED

Loggia is the best of all worlds, combining elements of light and sky with the solidity of internal plastered walls and ceilings. Loggia is a whole new category of home extension – and as you would expect from Ultraframe it couldn't be easier

A Loggia consists of exciting and innovative elements - super insulated columns and an internal perimeter ceiling.

For little more than the cost of a standard conservatory and with no Local Authority 'red tape' in the majority of cases*, you can deliver additional light and space to local homeowners.

With Loggia columns, it's up to you whether you choose full height glazed walls or 'dwarf walls' and their incorporation – at 90 degree corners, against the house wall and even in the middle of the side/front – can add a whole new look to the home extension. The Loggia columns are engineered in factory conditions and are highly insulated – their use allows speedy site installation, saving a number of days of the on-site build time when compared to brickwork piers / columns.

For assistance with Loggia design / specification please contact the Technical Support Team on 0843 208 6953 or email techsupport@ultraframe.co.uk

Technical Guide to Loggia Perimeter Ceiling.
Please also read the stand alone guide for the perimeter ceiling (formerly known as Liv*in*Room)

CONTENTS

Many of the options displayed in this brochure are chargeable.
Please ensure that any options chosen are made clear to the consumer by the trade partner at point of sale.

* Retailers/Dealers need to discuss Building Regulations and Planning permission with potential customers.

> A Loggia consists of a number of discrete elements that together create something exclusive for Ultraframe and its retailers/dealers.

Product definition

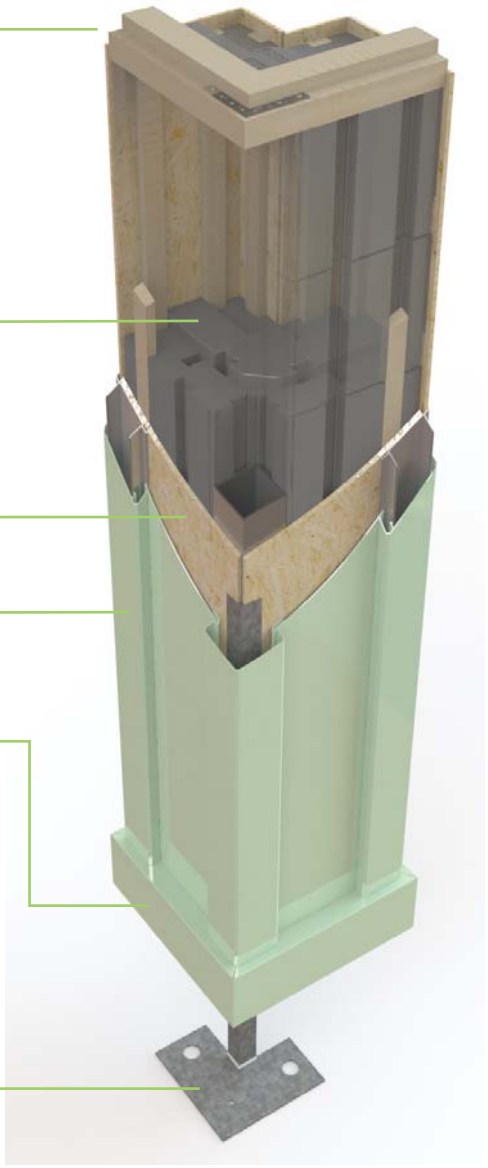
There are a number of elements to a Loggia;

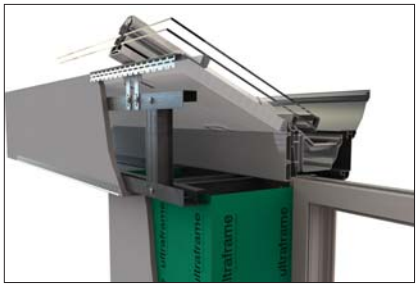
1. Super insulated columns clad with powder coated coloured aluminium cladding panels to externally create a radical new look whilst internally improving usablility and comfort levels.
2. An internal perimeter ceiling which consists of an engineered ladderwork system to which plasterboard is fixed. It is feasible to use use columns only with no perimeter ceiling - a special 'cap' is fitted to the top of the column.
3. Cornice decorative fascia, that hides the end of the glazing bars, creates a totally different look externally and which themes perfectly with the column claddings

Key performance criteria

- Choose from columns for full height situations or dwarf wall
- At the top of the columns, use either Cornice or a cill detail
- Choose from two suites of columns in large or small formats
- Suite comprises of 90 degree, in-line connectors & abutments
- U value for the post of 0.15, far superior to insulated cavity walls
- Optimised to work with Building Regulation compliant 300mm cavity dwarf wall construction. For cavity walls less than 300mm, studding out is required

Loggia super insulated columns





Loggia perimeter ceiling with cornice

Top of column detailing

Choose from using Cornice (Ultraframe's preferred option) or with a cill detail (Minimum 150mm cill required, supplied by others)

1

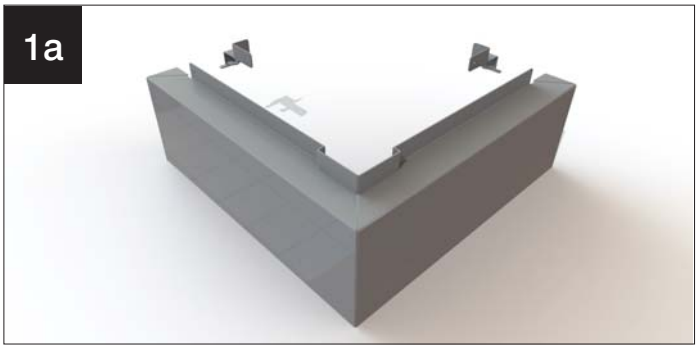
Loggia with Cornice

2

Loggia with Cill

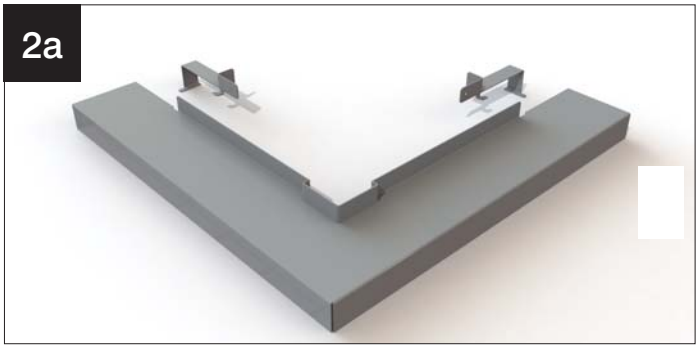
Bottom of column detailing

1a



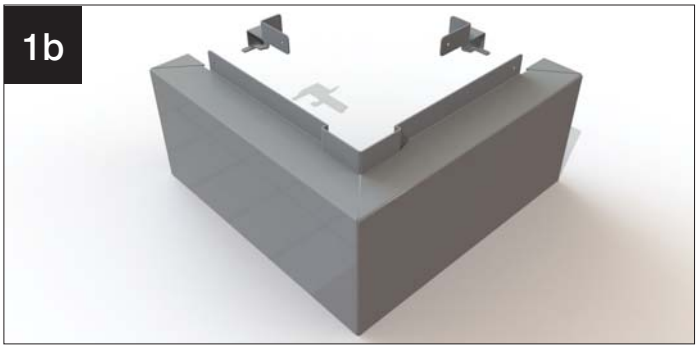
Large Column Corner Plinth - Left and right endcaps illustrated.

2a



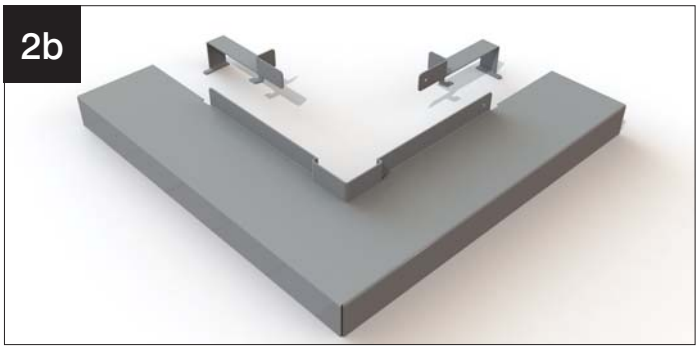
Large Column Corner Masonry Plinth Cap - Left and right endcaps illustrated.

1b



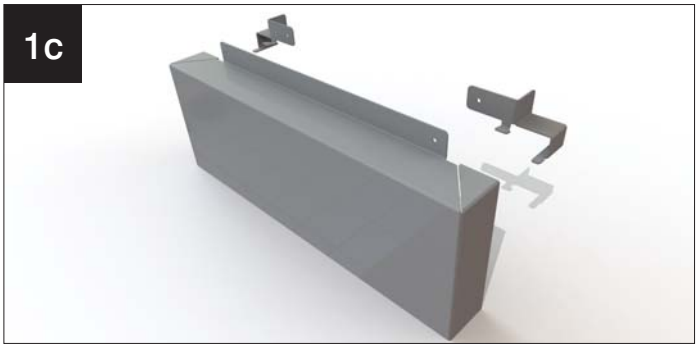
Small Column Corner Plinth - Left and right endcaps illustrated.

2b



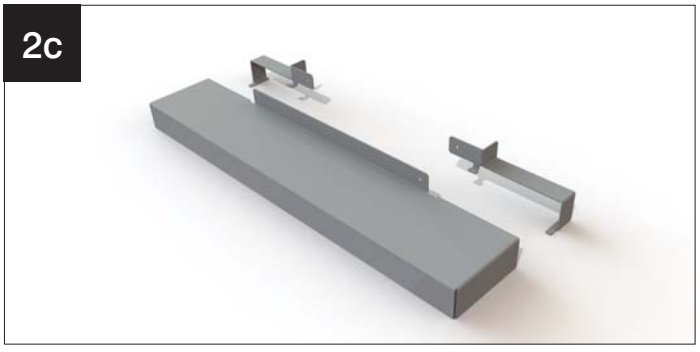
Small Column Corner Masonry Plinth Cap - Left and right endcaps illustrated.

1c



Large In-line Column Plinth - Left and right endcaps illustrated.
Also used in abutment situations and is cut down on site for LH & RH situations.

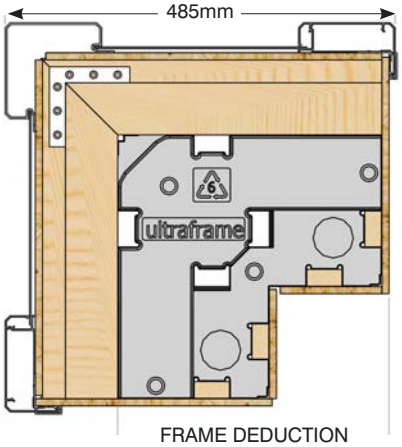
2c



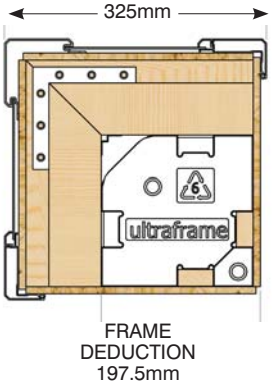
Large In-line Column Masonry Plinth Cap - Left and right endcaps illustrated.
Also used in abutment situations and is cut down on site for LH & RH situations.

90º Corner Column Configuration

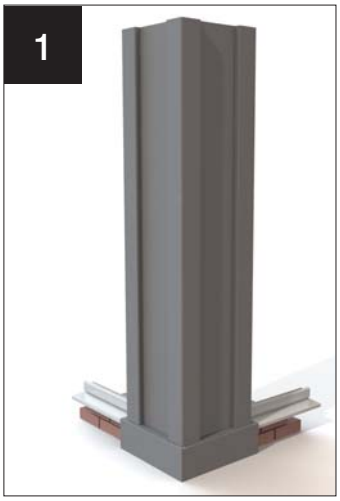
Large



Small

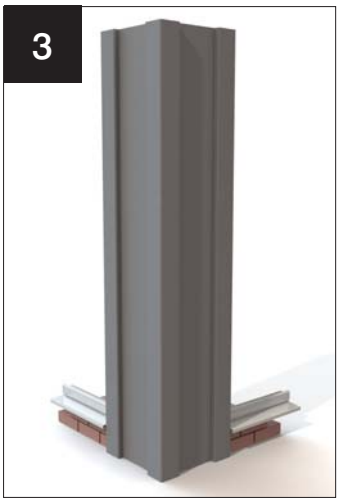


Full height frames large and small



Claddings with column plinth

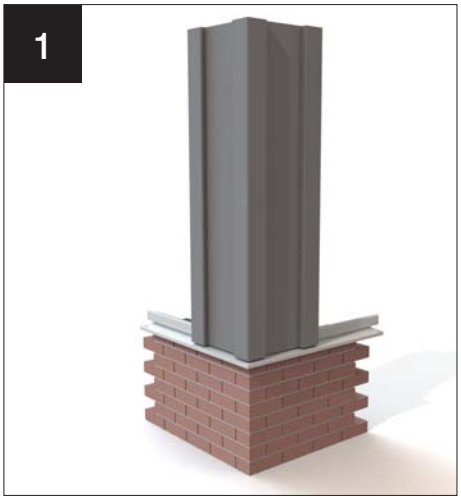
Claddings with masonry Plinth Cap



Claddings only (to ground) - can be cut into exact length or left 2500mm long for site trimming.

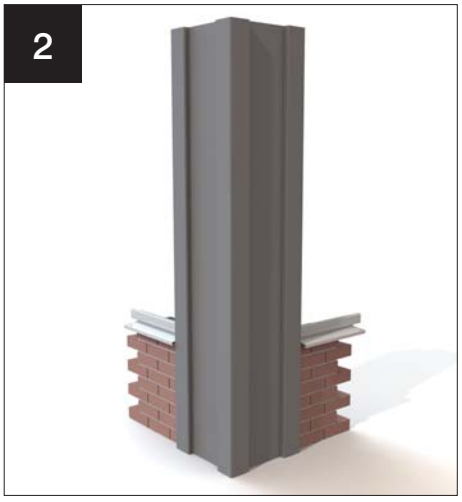
Sat on cill

Dwarf Wall large and small



Sat on cill

Claddings with masonry Plinth Cap

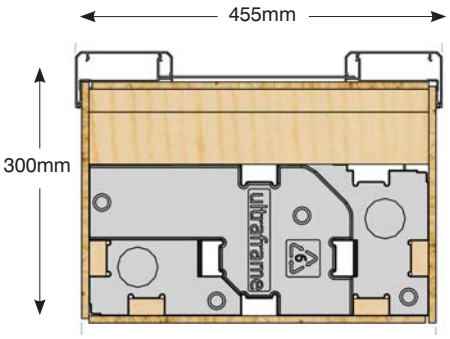


Column sat on cill, claddings run to ground (retro fit situation)

IMPORTANT NOTE: WHEN DOORS ARE ADJACENT TO AN IN-LINE COLUMN, A 30MM FRAME ADD ON SHOULD BE USED TO ENSURE THE DOORS ARE NOT RESTRICTED FROM OPENING

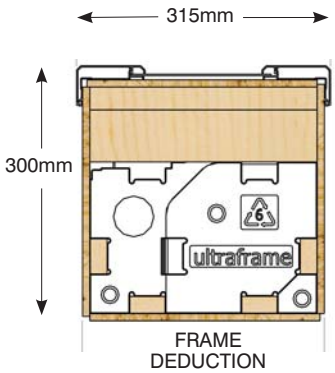
In - Line Column Configuration

Large



FRAME DEDUCTION 440mm

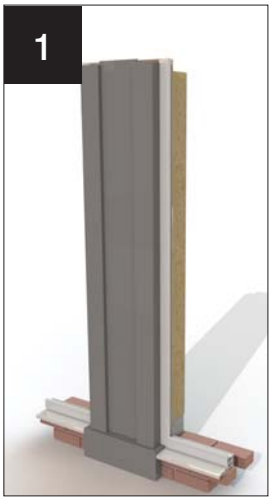
Small



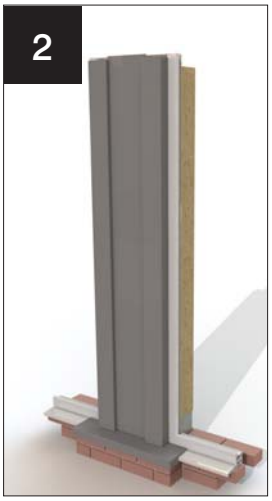
FRAME DEDUCTION 300mm

Full height large columns

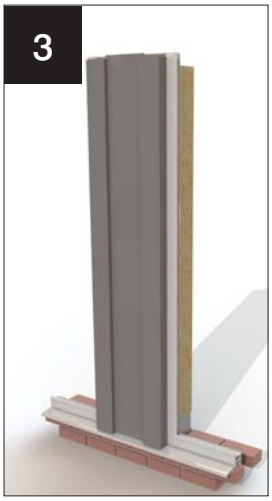
Full height small columns



Claddings with column plinth



Claddings with masonry Plinth Cap



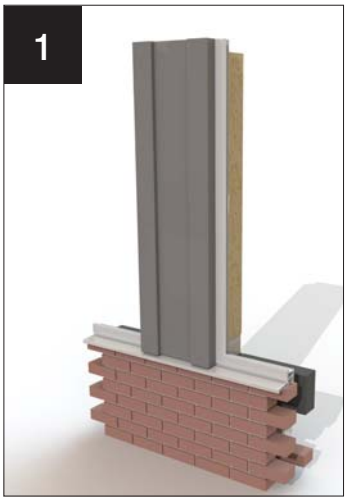
Sat on cill

Claddings only (to ground) Can be cut to exact length or left 2500mm long for site trimming

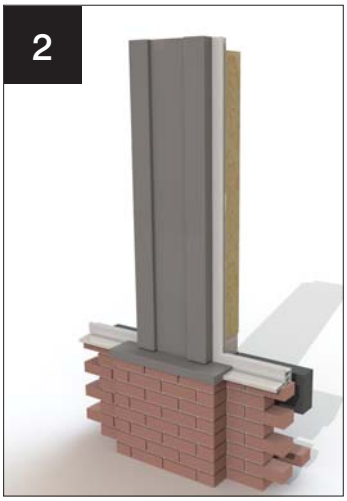
Sat on cill

Dwarf Wall large columns

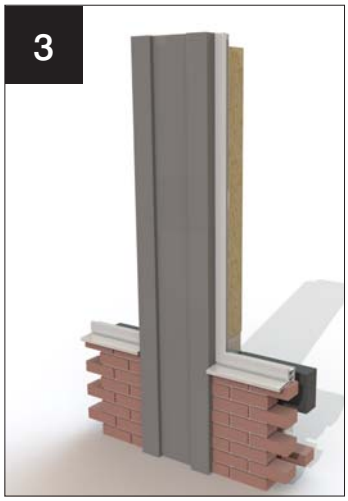
Dwarf Wall small columns



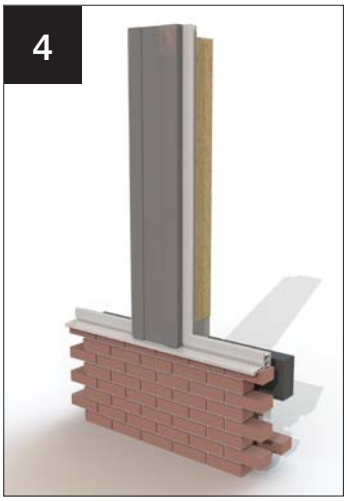
Standard window cill profile



Claddings with masonry Plinth Cap



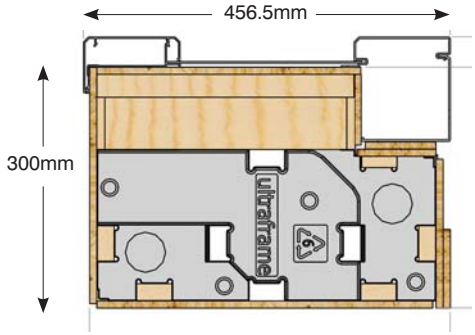
Column sat on cill, claddings run to ground (retro fit situation)



Sat on cill

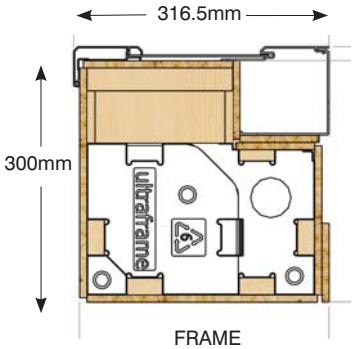
Abutment Column Configuration - left hand illustrated

Large



FRAME DEDUCTION 449mm

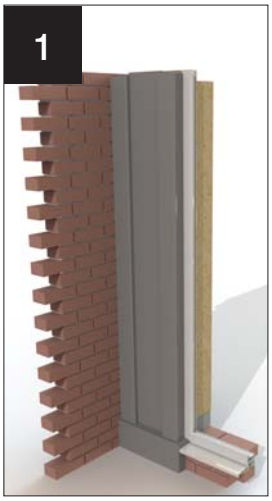
Small



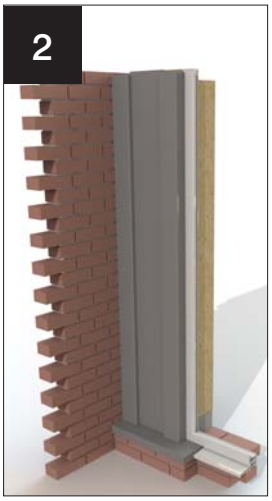
FRAME DEDUCTION 309mm

Full height large columns

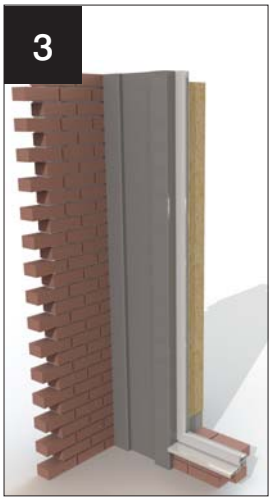
Full height small columns



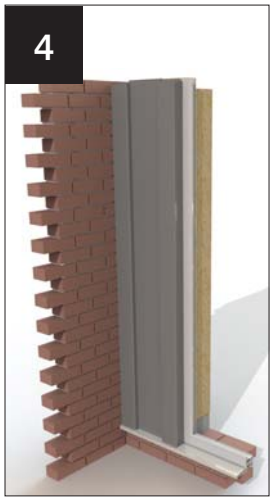
Claddings with column plinth



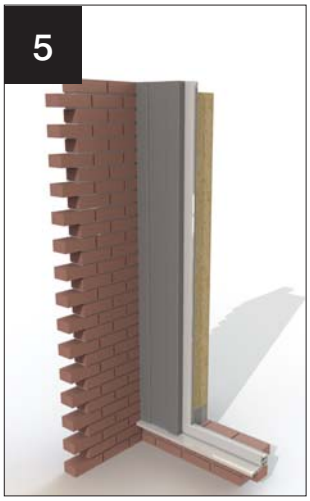
Claddings with masonry Plinth Cap



Claddings only (to ground) Can be cut to exact length or left 2500mm long for site trimming



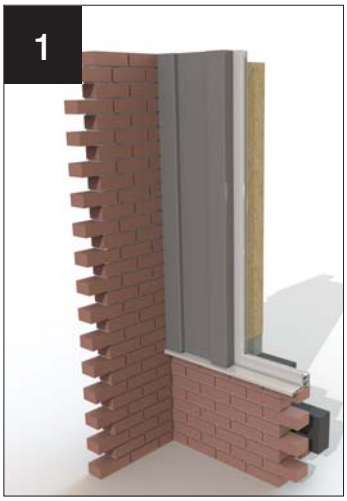
Sat on cill



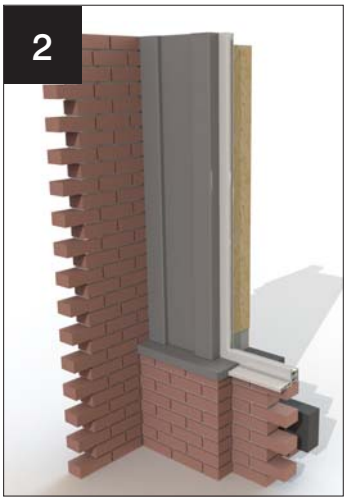
Sat on cill

Dwarf Wall large columns

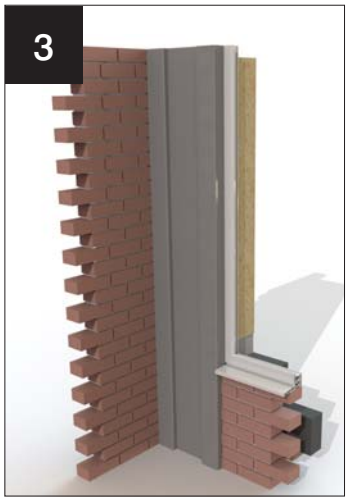
Dwarf Wall small columns



Sat on cill



Claddings with masonry Plinth Cap



Column sat on cill, claddings run to ground (retro fit situation)

Sat on cill

Set out posts and structural requirements

A set out post is part of the Loggia column suite of components. Depending upon the design of the Loggia building, it is an optional item or it is an essential requirement.

Where a corner column is sat on a cill, the set out post is optional and it used in these circumstances purely as an aid for the bricklayer. It can be used time after time on suitable projects.

Where there is a full height corner column and dwarf wall each side of the column, then generally in these circumstances, the set out post is again an aid for the bricklayer and it can be used time after time on suitable projects- it is an option. The Loggia column is held into the dwarf wall with frame anchors.

If your Loggia building features a full height corner column and full height frames each side of the column, then in these circumstances using the set out post is mandatory - you must select this option. Using the fixing pack supplied – which includes suitable anchor bolts – the set out post is attached to the strip footing and the set out post is 'built in' as part of the base build.

Please see page 12 to see how the set out post is installed.

Where wind loads are excessive, a more substantial attachment arrangement is used to ensure stability and this includes a heavier grade steel set out post used externally and internally. We will advise you on this provided the post code is provided at the point of ordering.

Secret Fix - Rainwater pipe in abutment post

In the abutment post we can hide a rainwater pipe. This saves time fitting an outlet into Cornice... or we can supply the elephants trunk if you prefer.

U - design

U-design is a piece of design and configuration software exclusive to Ultraframe. As well as visualising and pricing the Loggia, upon entry of the consumers postcode it checks the wind and snow loads at the exact location and immediately upgrades the specification should it be needed. Incorporation of Loggia columns into the design allows Ultraframe to 'prove out' the whole building - this facility is coming soon.

Colour Options

Loggia and Cornice are available in these standard colours on a standard lead time (defined as the roof lead time).

DEEPLAS WHITE	CLASSIC WHITE	LANDMARK GREEN	PURE CREAM	URBAN GREY
INTERPON SC050E	RAL 9003	BS14C35	RAL 1015	RAL 7016
GLOSS 80%	GLOSS 80%	GLOSS 80%	GLOSS 30%	GLOSS 80%

Alternatively, and at an extra cost, Loggia and Cornice can be available in a wide range of RAL specified colours.

Why not consider the Classic Roof in aluminium too?

RAL colour chart

Standard colour Pure Cream

Standard colour Landmark Green

Standard colour Urban Grey

Creating a part code for each column you wish to order

Complete steps 1-6 to generate a part code and then insert onto the order form in the boxes provided. Remember to 'letter' each column code on your sketch against the code reference - eg. position A, position B etc

Example 6 part code

Step 1. **90**	Step 2. **BPL**	Step 3. **2100**	Step 4. **CRN**	Step 5. **ST**	Step 6. **W**

Step 1. COLUMN POSITION

STYLE	CORNER	INLINE	ABUTMENT LEFT	ABUTMENT RIGHT
CODE	**90**	**IN**	**ABL**	**ABR**

Step 2. SIZE AND BASE FINISH

HEIGHT	BASE FINISH	LARGE	CODE	SMALL	CODE
FULL HEIGHT AND DWARF	BRICK PLINTH CAP	CORNER	**BPL**	CORNER ONLY	**BPS**
		INLINE			
		ABUTMENT			
	ON CILL	CORNER	**OCL**	CORNER	**OCS**
		INLINE		INLINE	
		ABUTMENT		ABUTMENT	
	CLADDINGS ONLY (MAX 2500MM)	CORNER	**COL** (INSERT LENGTH ONLY IF CUSTOM)	CORNER ONLY	**COS** (INSERT LENGTH ONLY IF CUSTOM)
		INLINE			
		ABUTMENT			
FULL HEIGHT ONLY	COLUMN PLINTH	CORNER	**CPL**	CORNER ONLY	**CPS**
		INLINE			
		ABUTMENT*			

*NB. FOR ABUTMENT LEFT AND RIGHT ORDER INLINE AND CUT DOWN ON SITE

Step 3. HEIGHT (mm)

1500	1650	1800	2100	2500	CUSTOM*

*NB. FOR SPECIALS OVER 2500mm CONTACT ULTRAFRAME

Step 4. TOP FINISH

CORNICE	CILL
CRN	**CILL**

Step 5. STRUCTURAL

LARGE CORNER, FULL HEIGHT COLUMN ONLY*	OTHER COLUMN TYPE
ST	**LEAVE BLANK**

*NB. COLUMN SUPPLIED WITH STRUCTURAL BRACKETS AND FIXINGS

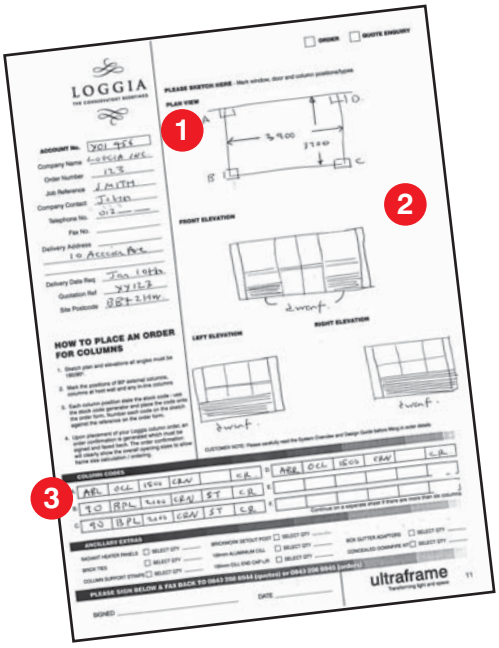
Step 6. COLOUR

CLASSIC WHITE	CLASSIC WHITE (DEEPLAS)	PURE CREAM	LANDMARK GREEN	URBAN GREY	*CUSTOM RAL NO.
W	**D**	**CR**	**GN**	**GR**	**eg. '1234'**

*NB. INSERT RAL NUMBER FOR A CUSTOM COLOUR

HOW TO PLACE AN ORDER FOR COLUMNS

1. Sketch plan and elevations all angles must be 180/90°.
2. Mark the positions of 90° columns, columns at host wall and any in-line columns.
3. Letter each column position. Use the stock code generator and place the code next to each corresponding letter on the column code section of the form.
4. Upon placement of your Loggia column order, an order confirmation is generated which must be signed and faxed back. The order confirmation will clearly show the overall opening sizes to allow frame size calculation / ordering.



Order form example

LOGGIA
THE CONSERVATORY REDEFINED

☐ **ORDER** ☐ **QUOTE ENQUIRY**

ACCOUNT No. ☐

Company Name .....

Order Number .....

Job Reference .....

Company Contact .....

Telephone No. .....

Fax No. .....

Delivery Address .....

.....

.....

Delivery Date Req .....

Quotation Ref .....

Site Postcode .....

PLEASE SKETCH HERE - Mark window, door and column positions/types

PLAN VIEW

FRONT ELEVATION

HOW TO PLACE AN ORDER FOR COLUMNS

1. Sketch plan and elevations all angles must be 180/90°.
2. Mark the positions of 90° columns, columns at host wall and any in-line columns.
3. Letter each column position. Use the stock code generator and place the code next to each corresponding letter on the column code section of the form.
4. Upon placement of your Loggia column order, an order confirmation is generated which must be signed and faxed back. The order confirmation will clearly show the overall opening sizes to allow frame size calculation / ordering.

LEFT ELEVATION

RIGHT ELEVATION

CUSTOMER NOTE: Please carefully read the System Overview and Design Guide before filling in order details

COLUMN CODES

A.							D.						
B.							E.						
C.							F.						

Continue on a seperate sheet if there are more than six columns

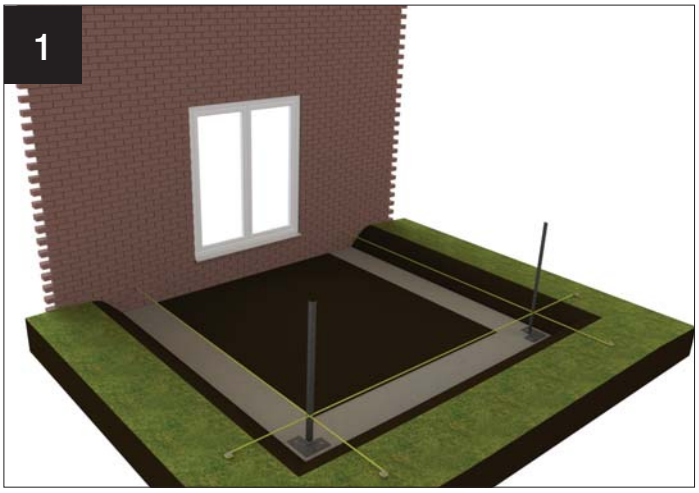
ANCILLARY EXTRAS

RADIANT HEATER PANELS	☐ SELECT QTY	BRICKWORK SETOUT POST	☐ SELECT QTY	BOX GUTTER ADAPTORS	☐ SELECT QTY .....
BRICK TIES	☐ SELECT QTY	130mm ALUMINIUM CILL	☐ SELECT QTY	CONCEALED DOWNPIPE KIT	☐ SELECT QTY .....
COLUMN SUPPORT STRAPS	☐ SELECT QTY	130mm CILL END CAP L/R	☐ SELECT QTY		

PLEASE SIGN BELOW & FAX BACK TO 0843 208 6944 (quotes) or 0843 208 6945 (orders)

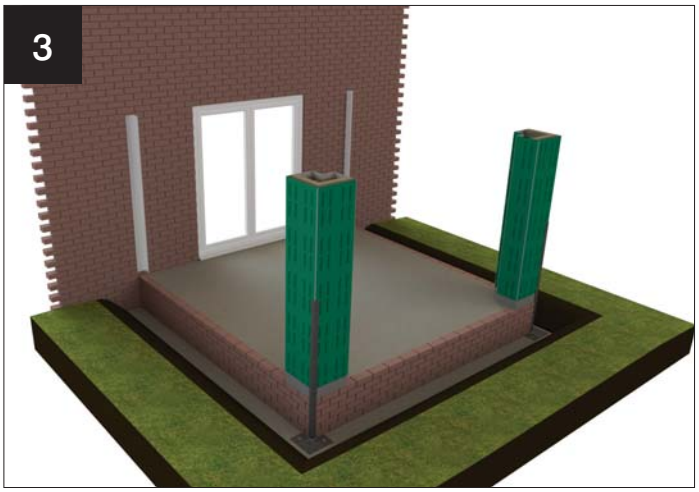
SIGNED ..... DATE .....

ultraframe
Transforming light and space

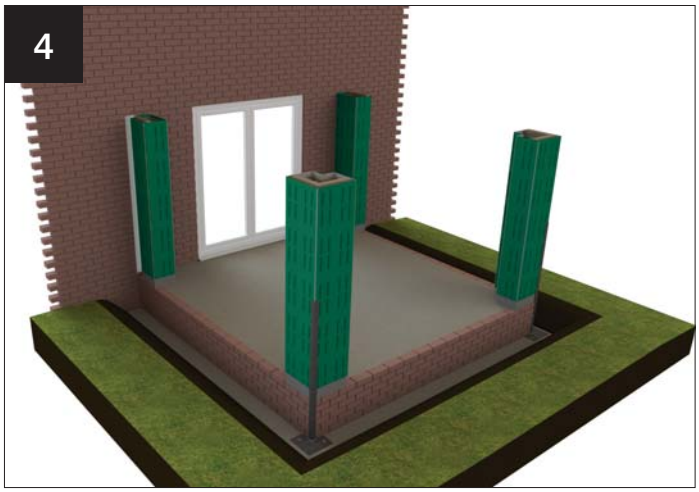


Using strings and timber pegs, set out for the masonry external leaf. Always check diagonal dimensions to ensure everything is square. Line up the outside edge of the set out post against the string lines – temporarily fix. Remove string lines, slide the set out post outwards by 3mm and then fix to concrete strip footing with the two anchor bolts provided.

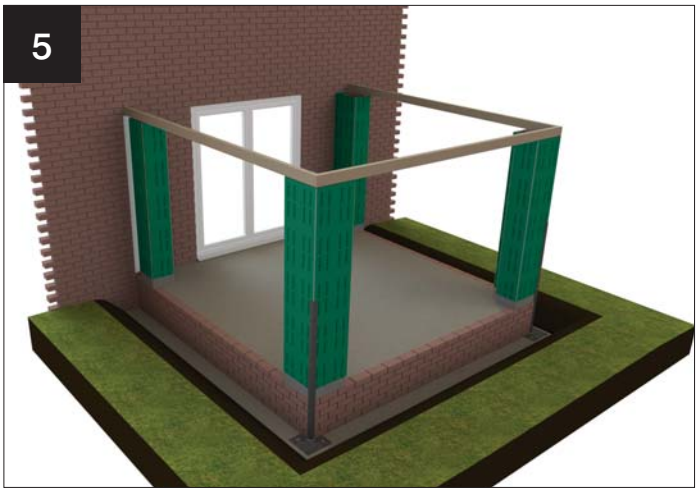
Build the masonry up to DPC level and concrete the slab in the usual way.



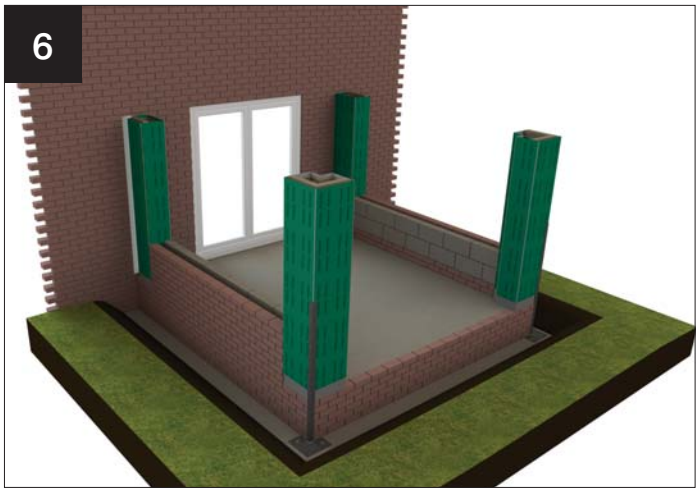
In this example, the Loggia has four columns which includes two optional abutment columns.Offer up the vertical aluminium carrier extrusion at the host wall positions and fasten into place . Unpack and lift into position the two corner columns – ensure it fits neatly into the 'elbow' of the set out post. Using the fixings provided, screw through the set out post and into the face of the column.



Next take the two abutment columns, line up with the external face of the masonry and then screw through the aluminium carrier extrusion into the column



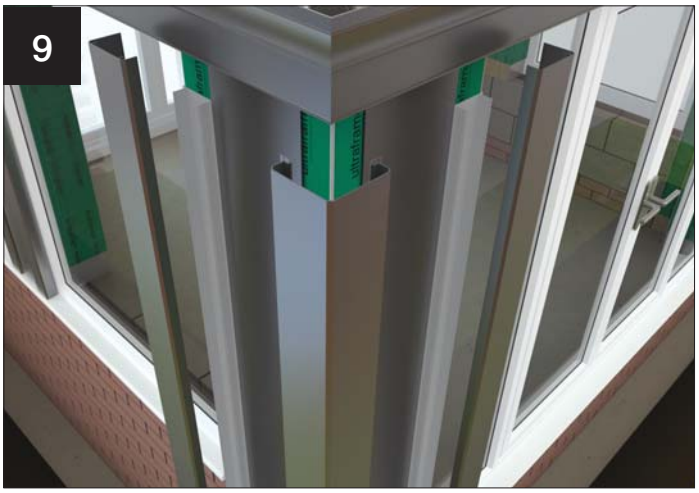
Using lengths of 100 x 50 timber, 'square' up the overall structure at eaves beam level – ensure the timbers are level and again check dimensions across the diagonals. It is critical at this stage that everything is level, plumb and true.



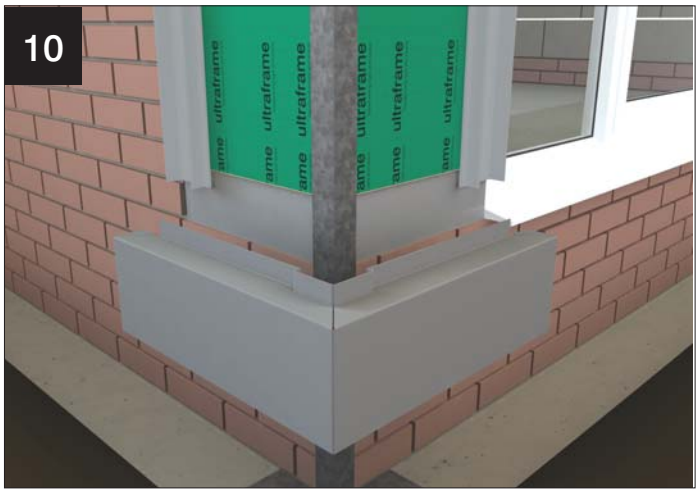
Now complete the balance of the masonry construction up to cill level. Attach the column using frame anchors that screw fix to the column and are built into the brickwork.

Install the cills, window frames and doors in the normal way.

Install the Classic roof and Cornice in the usual way.



Screw fit the aluminium cleats down the two edges of the corner column. Then screw fit the powder coated trim down the full length of the corner. Next, on the infill panel cladding, place two beads of silicone on the non painted side, offer into position before finally knocking on the full height powder coated closure angles.



Now fit the trim at the bottom of the column – various options are available (see page 4) – in this case a plinth trim is illustrated.

Now complete the cladding sequence on the abutment column – attaching cleats, then the full height cladding and infill panel (similar to step 3).

Here is the Loggia completed – a stunning new building, the conservatory redefined.

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