Ultraframe®

Transforming light and space

V7 | September 2018

SUPER-INSULATED COLUMNS

SYSTEM OVERVIEW AND DESIGN GUIDE

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SYSTEM OVERVIEW & DESIGN GUIDE
SUPER-INSULATED COLUMNS

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

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 Super-insulated columns 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 Super-insulated columns are engineered in factory conditions and are 5 times more thermally efficient than an equivalent sized brick column – their use allows speedy site installation, saving a number of days off the 'on-site' build time when compared to building brickwork piers / columns.

For assistance with Super-insulated columns design / specification please contact the Technical Support Team on 01200 452918 or email techsupport@ultraframe.co.uk

Technical Guide to Insulated internal pelmet Perimeter Ceiling.
Please also read the stand alone guide for the perimeter ceiling.

CONTENTS

Super-insulated columns, Insulated internal pelmet and Cornice are all charged separately. Many of the Super-insulated columns options displayed in this brochure attract additional charges. 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.

OVERVIEW

This technical guide illustrates the super-insulated columns product with 70mm window frames and 300mm wide brickwork walls. **If you are specifying any other sizes please refer to pages 19, 26-27 and 34.**

Product definition

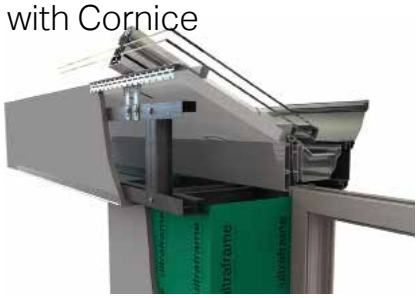
There are a number of elements to super-insulated columns;

1. Super insulated columns clad with powder coated coloured aluminium cladding panels to externally create a radical new look whilst internally improving usability 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 columns only with no perimeter ceiling - a special 'cap' is fitted to the top of the column, this is not supplied, see page 35.
3. Cornice decorative fascia, that hides the end of the glazing bars and gutter, creating a totally different look externally and which themes perfectly with the aluminium column claddings.

U-Design

U-Design is a piece of design and configuration software exclusive to Ultraframe. As well as visualising and pricing the Super-insulated columns, upon entry of the customers postcode it checks the wind and snow loads at the exact location and immediately upgrades the roof and column specification should it be needed. This guide is an overview of the design parameters of Super-insulated columns - U-Design interactively looks at loadings to correctly calculate structural specifications.

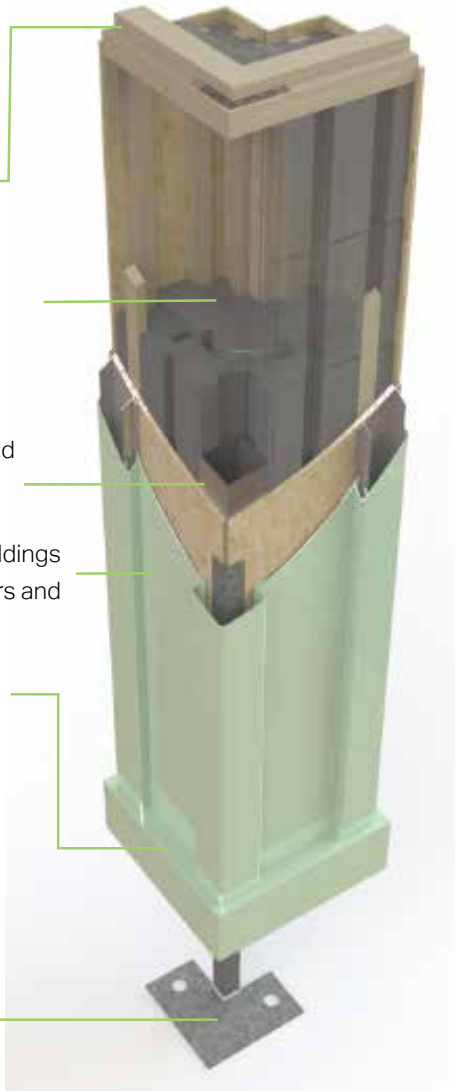
Super-insulated columns and insulated internal pelmet with Cornice



Key performance criteria

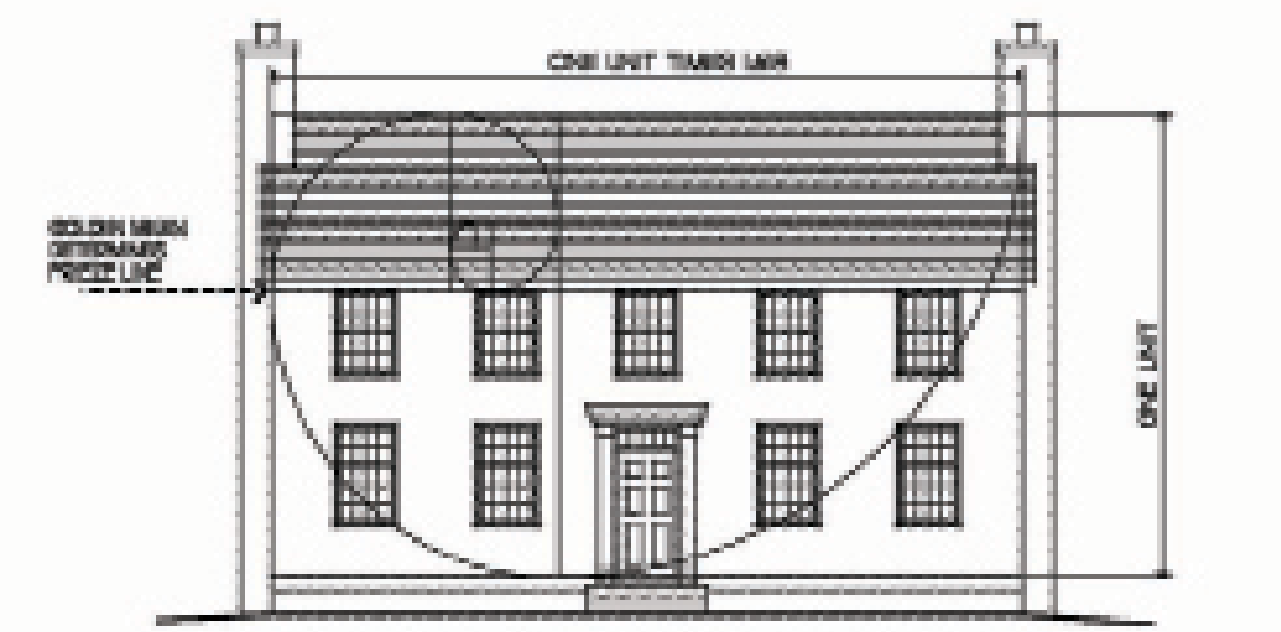
- Choose from columns for full height situations or dwarf wall
- At the top of the columns, use either Cornice or a cill detail
- Choose from two suites of columns in large or small formats
- Suite comprises of 90 degree, in-line connectors & abutments
- U value for the post of 0.15, which is five times more thermally efficient than an equivalent sized brick column.
- Optimised to work with Building Regulation compliant 300mm cavity dwarf wall construction. For cavity walls less than 300mm, studding out is required - see page 34.

Super-insulated columns



DESIGN PRINCIPLES

Super-insulated columns is a new type of home extension and guidance is needed to ensure aesthetically pleasing buildings are designed. A guiding principle is the 'golden ratio' which has underpinned effective design for centuries. To assist you in the task of effective super-insulated column design, we are currently working on a 'Design Principles' guidebook.



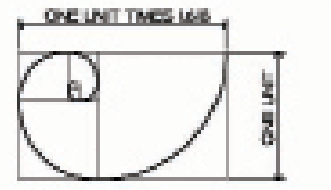
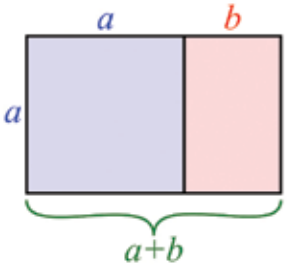


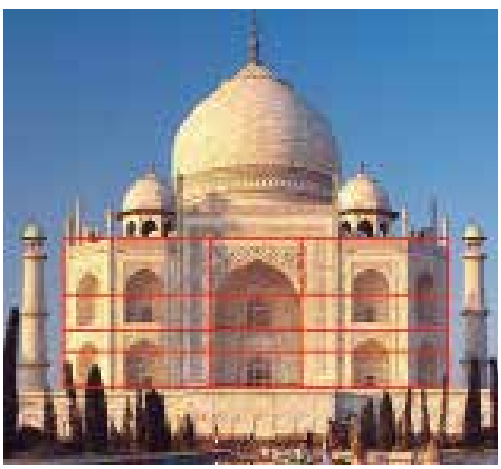
DIAGRAM OF THE PROPORTIONS OF THE GOLDEN MEAN

GEORGIAN STYLE HOUSE WITH FRONT ELEVATION BASED ON PROPORTIONS OF THE GOLDEN MEAN



Since at least the 20th century, many artists and architects have proportioned their works approximately to the golden ratio, especially in the form of the golden rectangle is where the ratio of the longer side to the shorter is the golden ratio (1:1.618). This proportion is believed to be aesthetically pleasing.

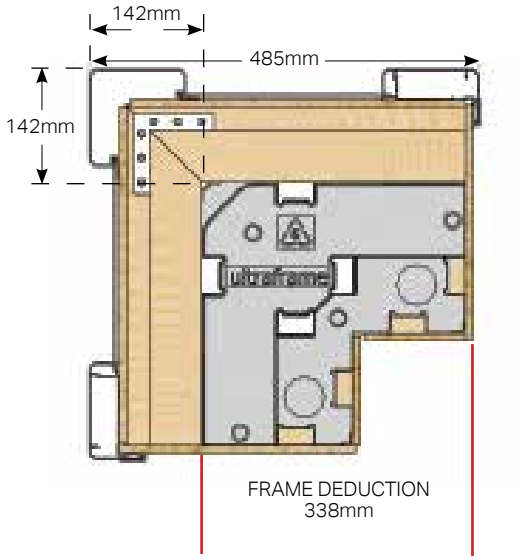
Golden ratio = (1:1.618)



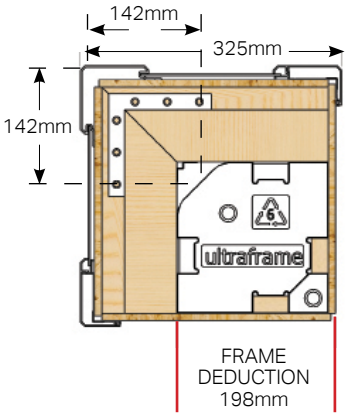
DESIGN OPTIONS

90° Corner Column Configuration

Large



Small



Full height large and small

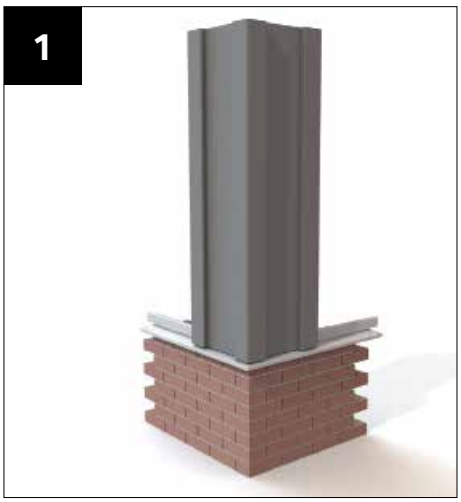
Claddings with column plinth

Claddings with masonry Plinth Cap

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

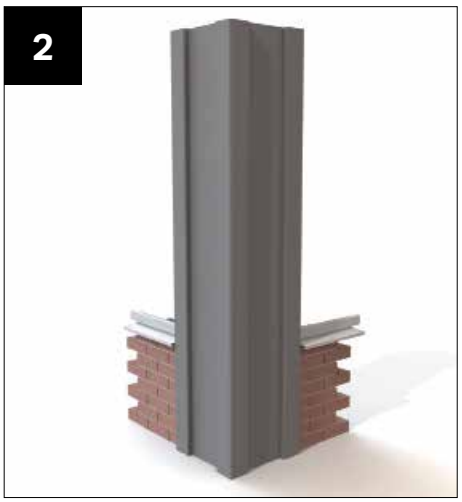
Sat on cill - Column sits on base, external edge of column is notched to allow external cill to run round (see page 17).

Dwarf Wall large and small



Sat on cill

Claddings with masonry Plinth Cap



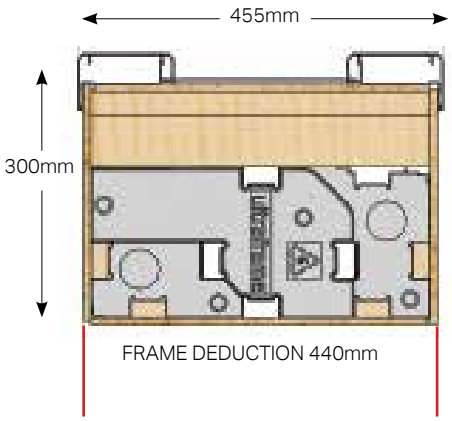
Column sat on dwarf wall, claddings run to ground (retro fit situation)

DESIGN OPTIONS

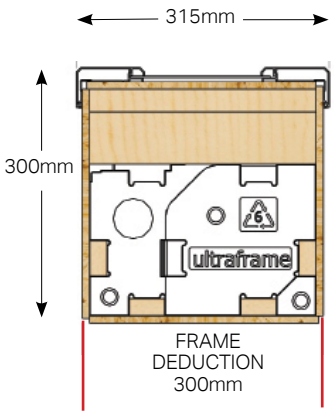
In - Line Column Configuration

IMPORTANT NOTE: WHEN DOORS ARE ADJACENT TO AN IN-LINE COLUMN, FRAME ADD ON MAY BE NECESSARY TO ENSURE THE DOORS ARE NOT RESTRICTED FROM OPENING

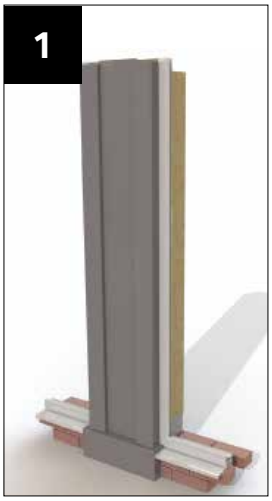
Large



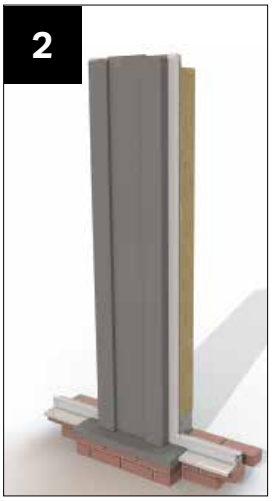
Small



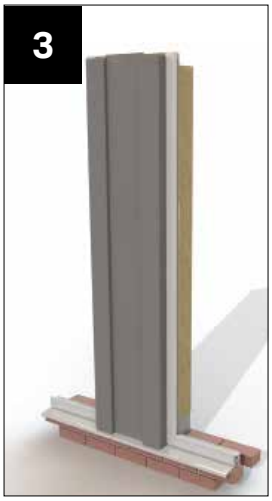
Full height large columns



Claddings with column plinth

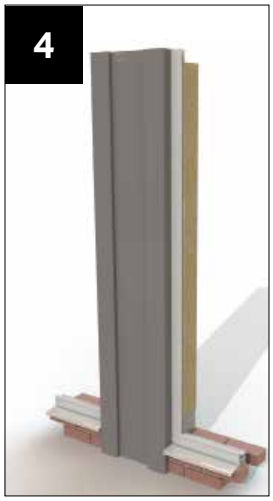


Claddings with masonry Plinth Cap

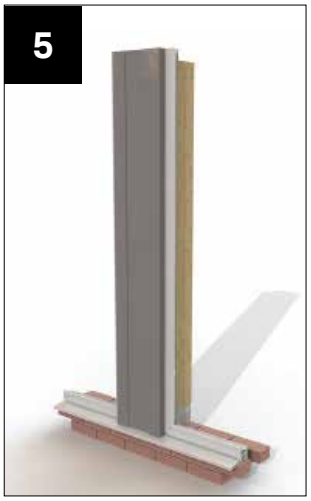


Sat on cill

Full height small columns

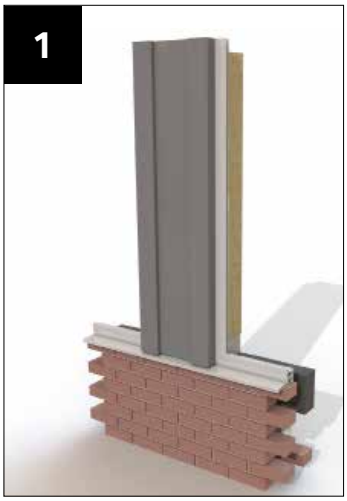


Claddings only (to ground) Can be cut to exact length or left 2500mm long for site trimming

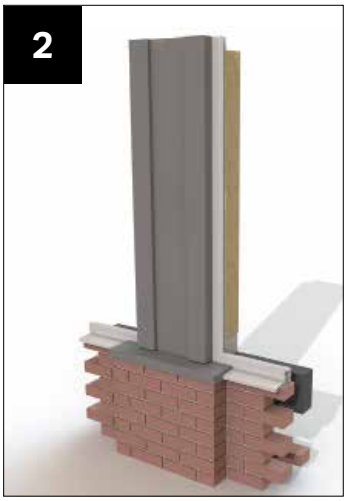


Sat on cill - NOTE: Only large plinth covers available

Dwarf wall large columns

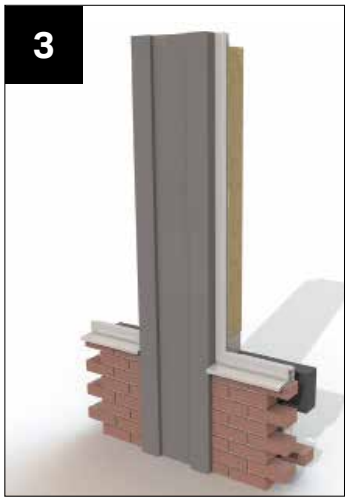


Sat on cill

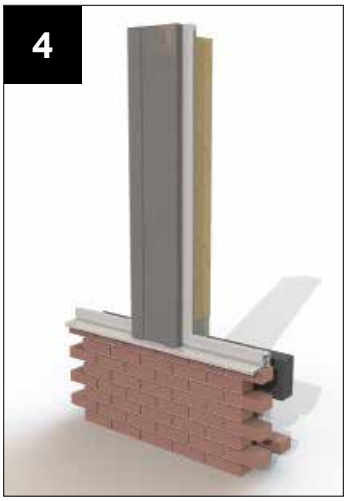


Claddings with masonry Plinth Cap

Dwarf wall small columns



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

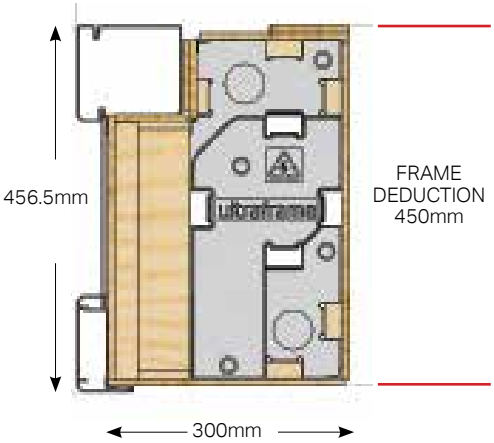


Sat on cill

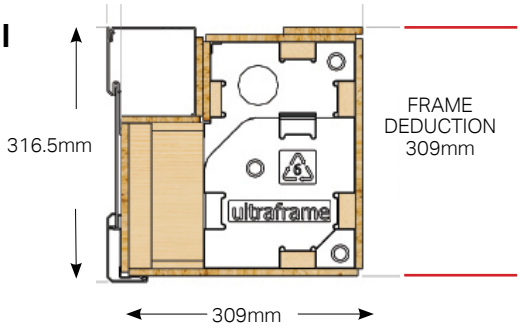
DESIGN OPTIONS

Abutment Column Configuration - left hand illustrated

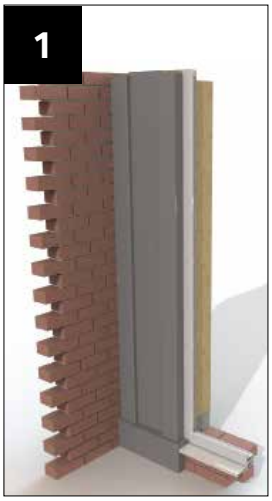
Large



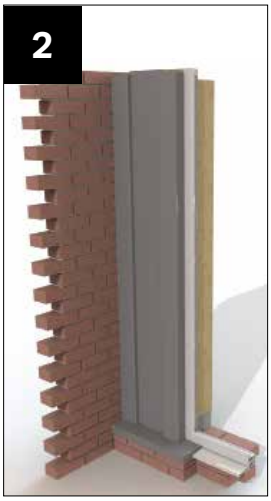
Small



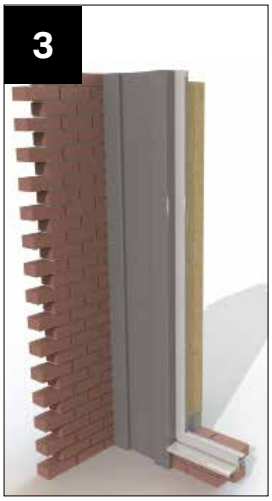
Full height large columns



Claddings with column plinth

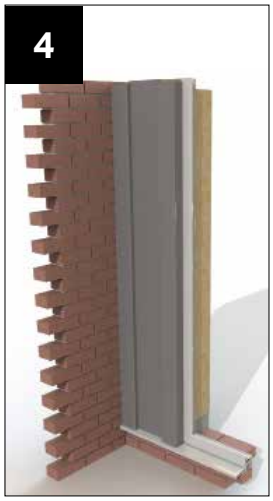


Claddings with masonry Plinth Cap

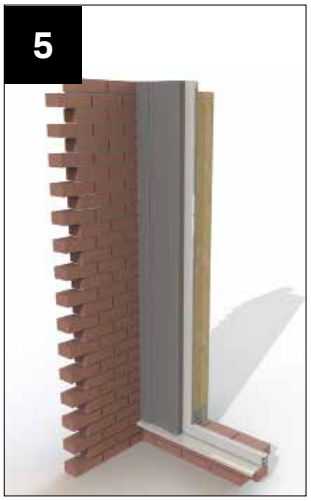


Claddings only (to ground) Can be cut to exact length or left 2500mm long for site trimming

Full height small columns



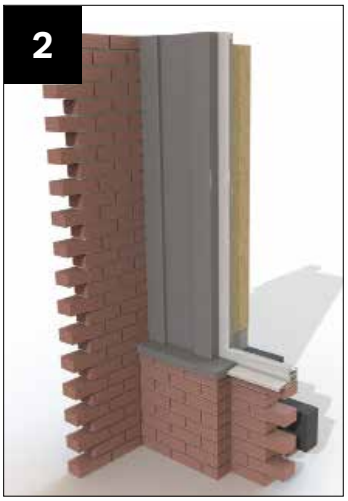
Sat on cill



Sat on cill

Dwarf Wall large columns

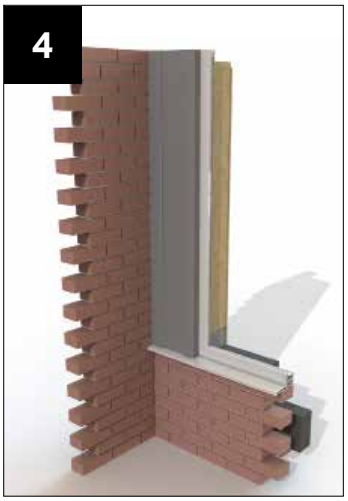
Sat on cill



Claddings with masonry Plinth Cap

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

Dwarf Wall small columns



Sat on cill

DESIGN OPTIONS

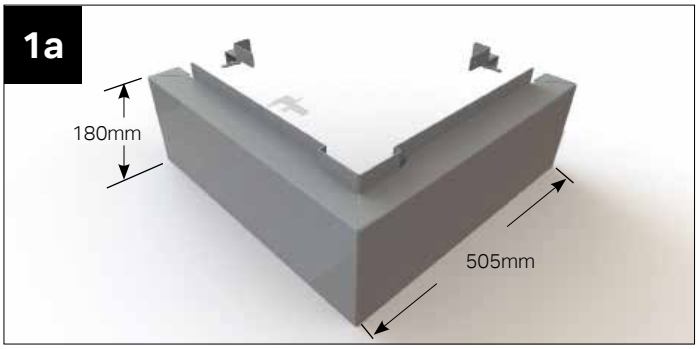
Top of column detailing

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

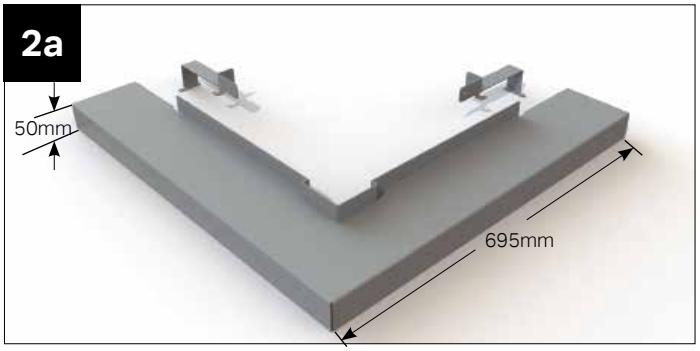
Super-insulated columns with Cornice

Super-insulated columns with cill and classic gutter

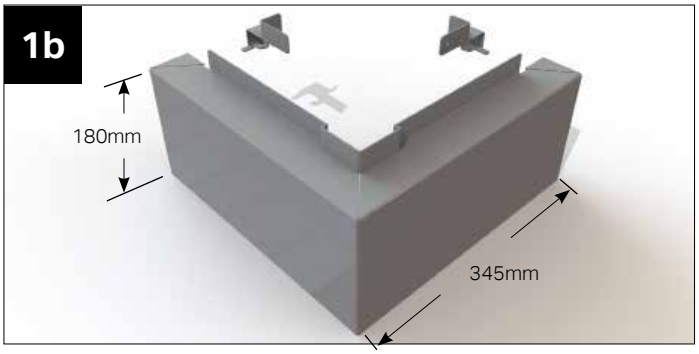
Bottom of column detailing



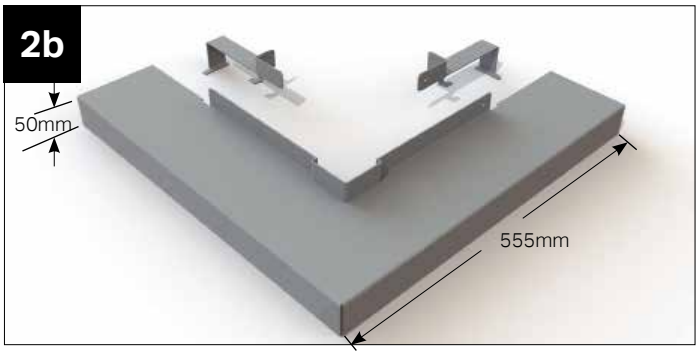
Large Column Corner Plinth - Left and right endcaps illustrated.



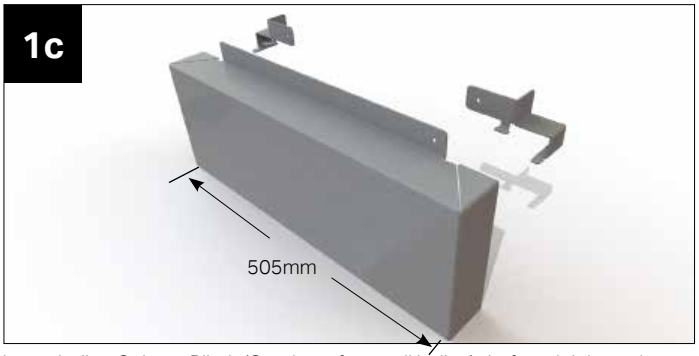
Large Column Corner Masonry Plinth Cap - Left and right endcaps illustrated.



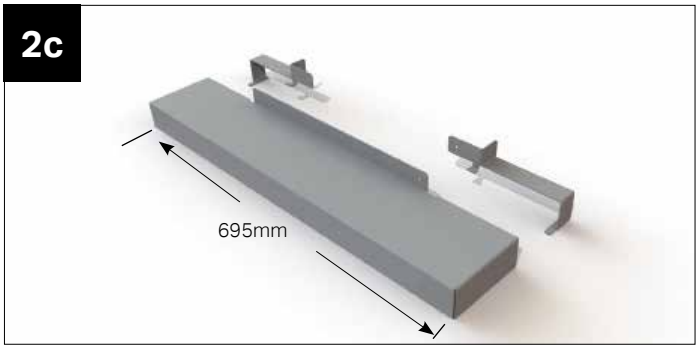
Small Column Corner Plinth - Left and right endcaps illustrated.



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



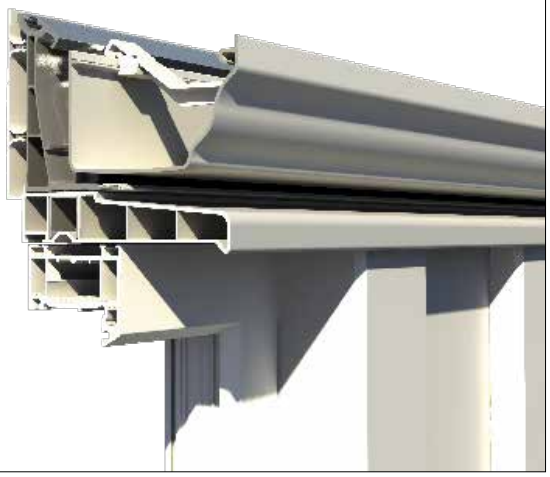
Large In-line Column Plinth (Cut down for small in-line)- Left and right endcaps illustrated. Also used in abutment situations and is cut down on site for LH & RH situations.



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

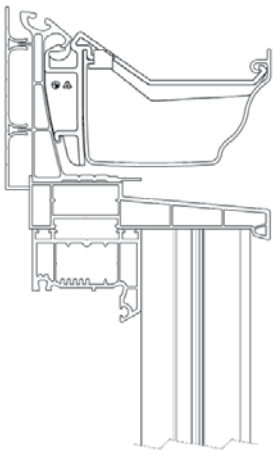
STANDARD EAVES CROSS SECTION DETAILS

1



Standard eaves with cill

1a



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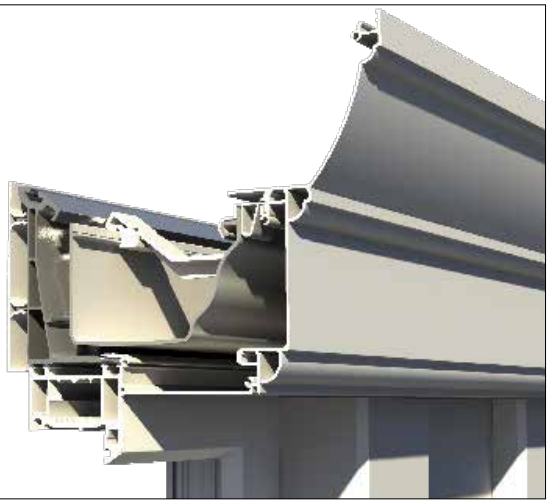
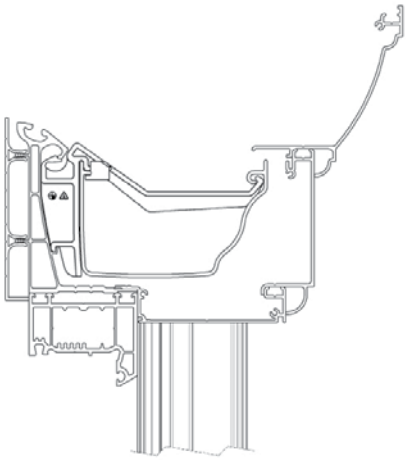


Standard eaves with cornice

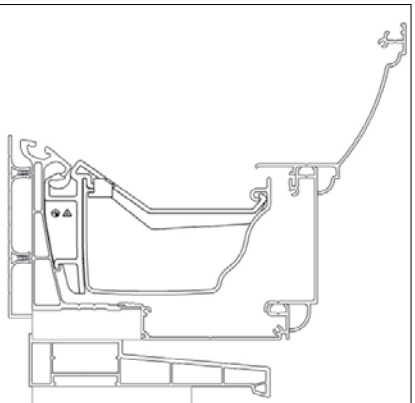
2a



NOTE: Cornice sits 18mm down from head of frame.

3

3a



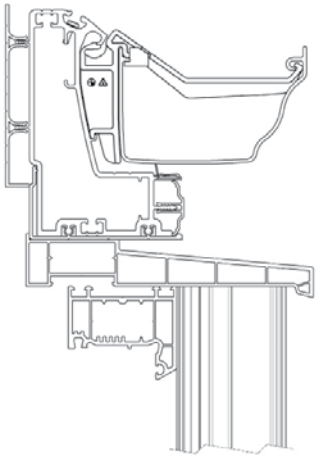
Standard eaves with Cornice and cill for full height brickwork (18mm thick timber packer not supplied)

SUPER DUTY EAVES CROSS SECTION DETAILS

4

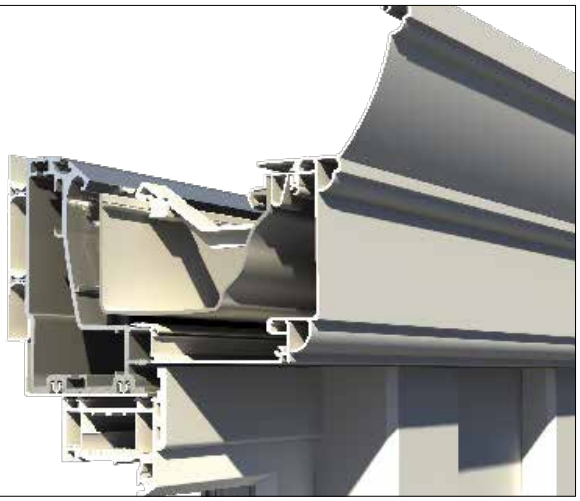
Super Duty eaves with cill

4a



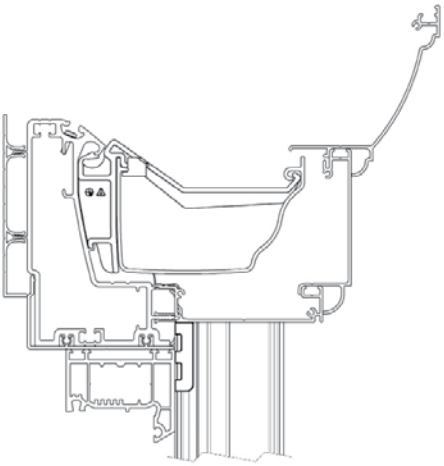
NOTE: 180mm cill required

5



Super Duty eaves with cornice (trims not supplied)

5a



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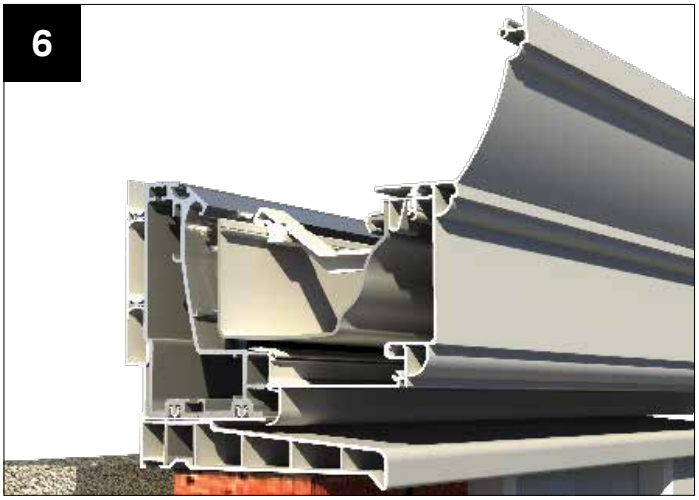
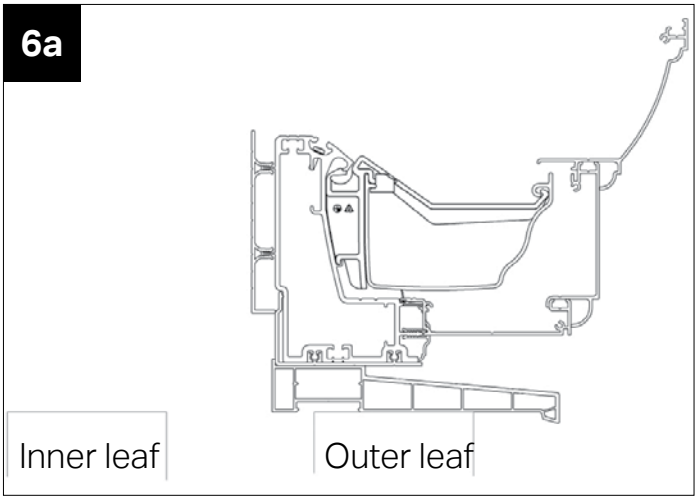


Super Duty eaves with Cornice and cill for full height brickwork

6a



RAINWATER DISPOSAL OPTIONS

Rainwater pipe in abutment post

In the abutment post we can hide a rainwater pipe. This saves time fitting an outlet into Cornice, see page 13 for full design and construction details. This option works on full height frames/columns only.

Other rainwater downpipe options

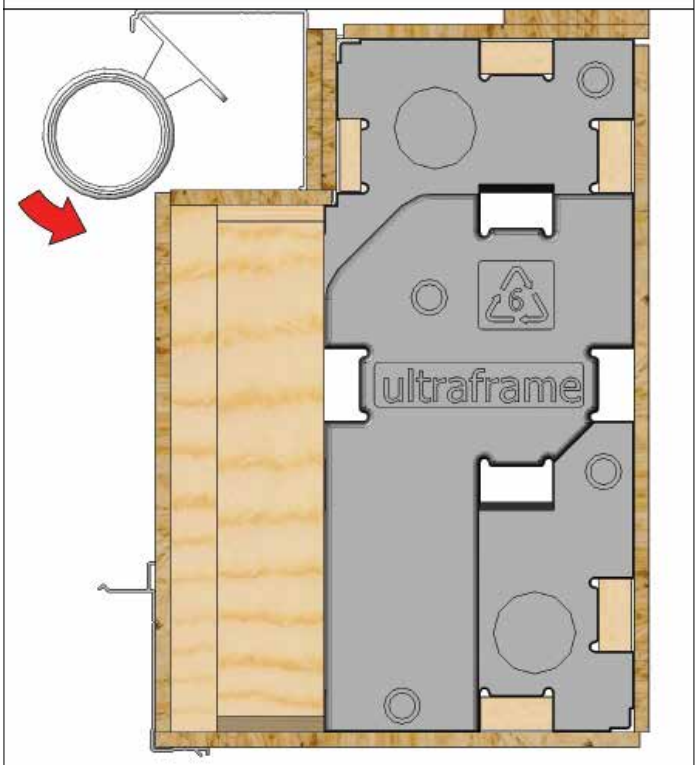
1

Return Cornice and guttering along house wall.

2

Elephants trunk outlet (CRN014 Cornice cover cap). If it is not possible to have full height columns. i.e on dwarf wall.

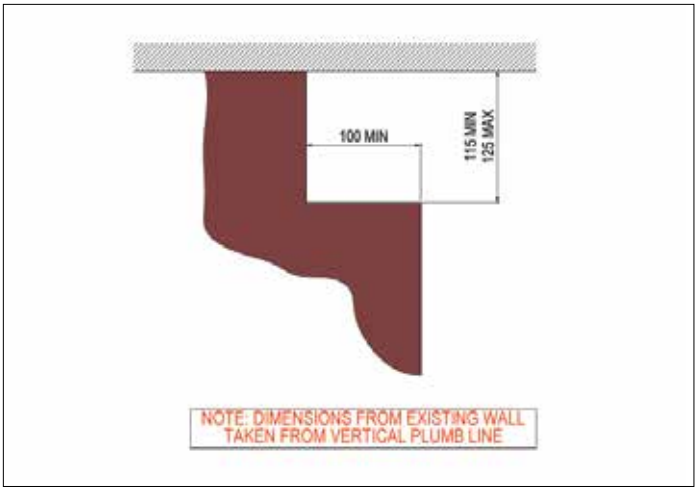
RAINWATER PIPE IN ABUTMENT COLUMN



Left hand column

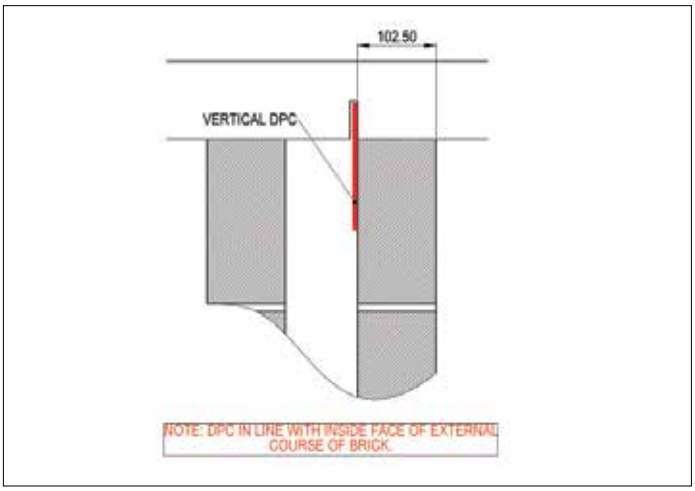
Rainwater downpipe fits into the recessed channel on the abutment column.

If a concealed rainwater downpipe has been specified on the Abutment column, then the base work is required to step in to allow for the downpipe to exit below the column directly into a drain. Right hand column required here.



Base work detail shown for the concealed rainwater downpipe in the Abutment column.

When using abutment columns, a vertical DPC is required between the column and host wall.



Position of slot for vertical DPC shown.

SET OUT POSTS

Introduction

When designing the new building for your consumer, there are always compromises to be made during the design process. If you use the U-design software yourself, then the effect of these design decisions can be viewed instantaneously and any compromises quickly implemented. These changes could be influenced by;

- the door and window positions,
- whether the columns are full height or sat on dwarf walls,
- if the column is sat on cill/off cill can be important
- the size of the proposed building
- and – of course – perhaps the most critical element is the resultant effect of the wind and snow loadings at the postcode of the proposed building.

If you are not a direct user of U-Design, then this process of amending the design may happen as a result of negotiations with Ultraframe (if you are a direct buyer) or with one of Ultraframe's fabricator/trade intermediary suppliers.

Lets look at an example.

Take a location with a wind load of 1.0kN/m2 and full height frames with large corner columns NOT on cill.

Maximum projection of the building is as follows;

- 2.89m with standard set out posts and two straps
- 4.62m with structural post and internal support bracket
- 6.93m with structural post, internal support bracket and at least two 'fixed frames' in front elevation.

1

Illustration shows standard post which also aids foundation/brickwork set out.

Pages 14-20 discuss all the structural design elements. Please call 01200 452918 or email techsupport@ultraframe.co.uk if you need help with these structural design rules.

1a

This is how setout post is wrapped/packed.

1b

Standard post comes with its own fixing kit (LRP020)

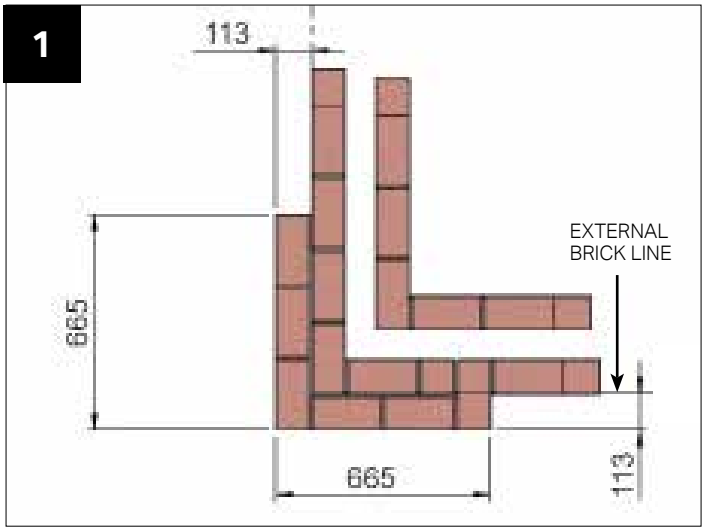
1c

Structural post (right) and structural internal anchor bracket (options for large and small corner columns).

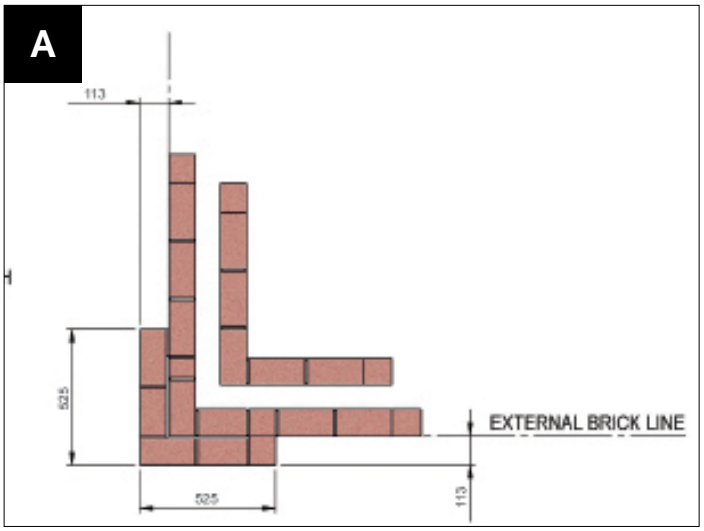
FOUNDATIONS SET OUT

NOTE: THE SMALL INLINE AND ABUTMENT COLUMNS ARE ONLY AVAILABLE ON CILL

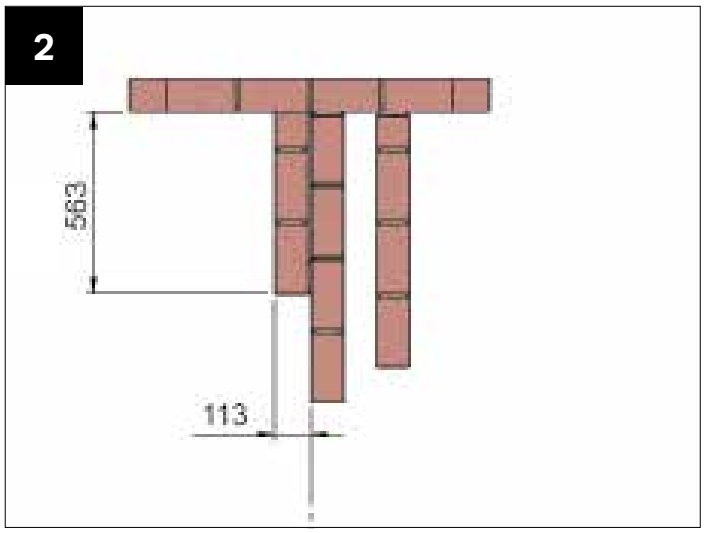
Large Corner Brick Plinth sizes



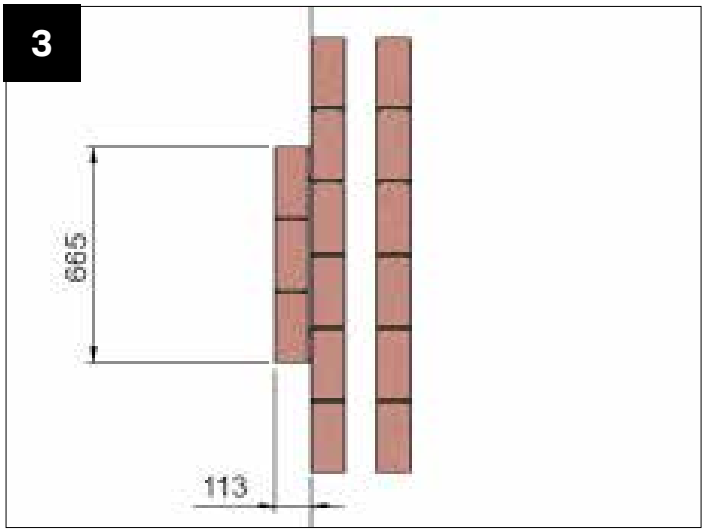
Small Corner Brick Plinth sizes



Large Abutment Brick Plinth sizes



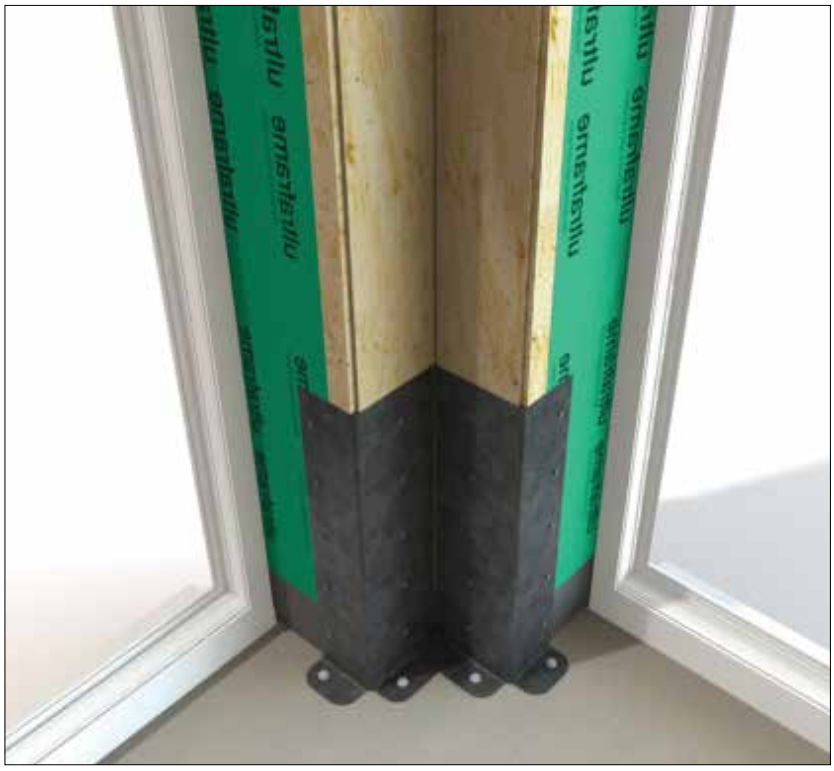
Large Inline Brick Plinth sizes



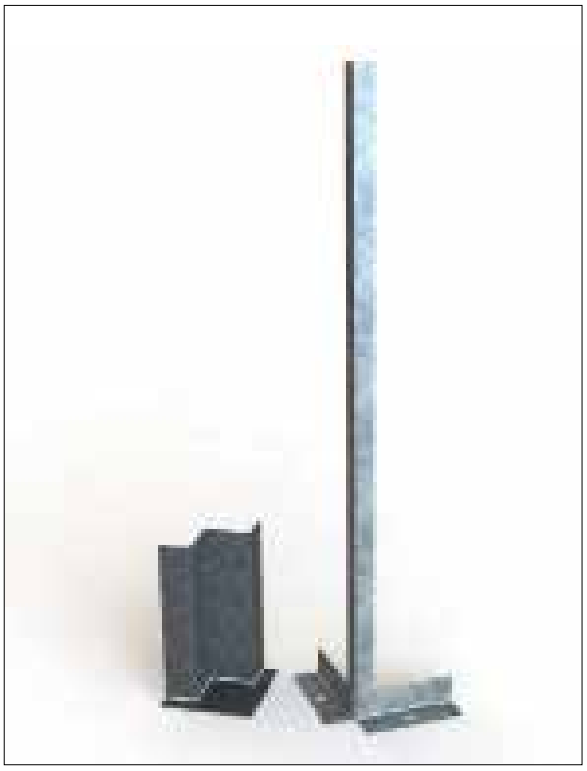
STRUCTURAL COLUMNS

Structural column rules:

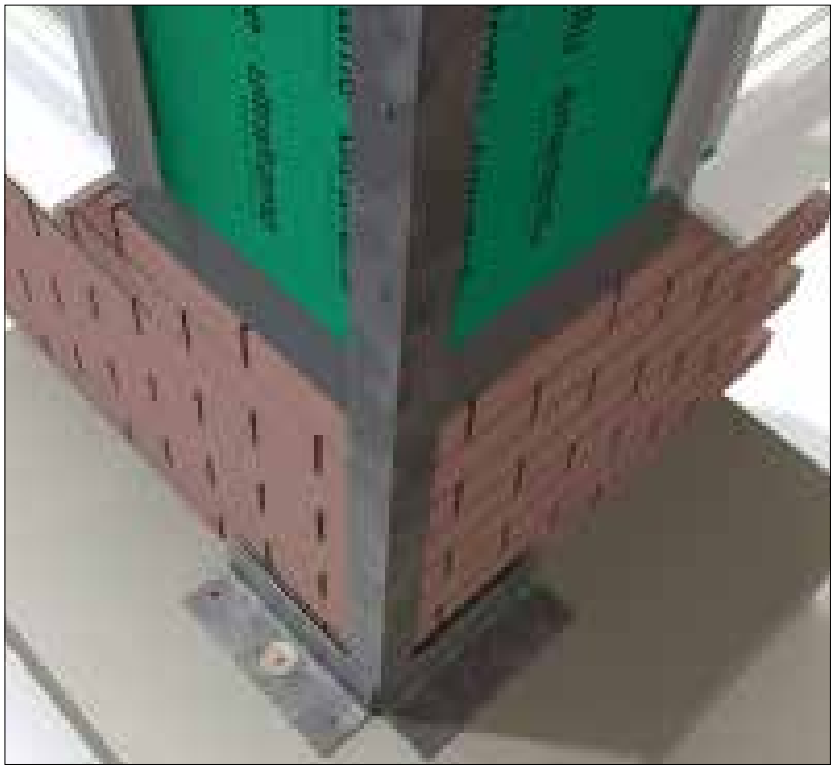
• Full height only. • Large corner column only. • Not available as 'on cill' option. (Cills cut to abut column)



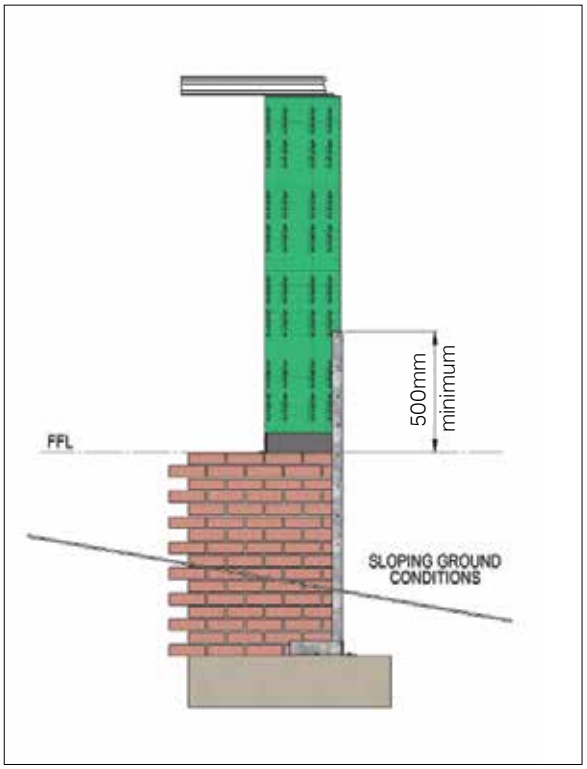
Internal structural steel plate is anchored to slab. Plate may require recessing dependant on finished floor.



Structural setout post and internal fixing plate



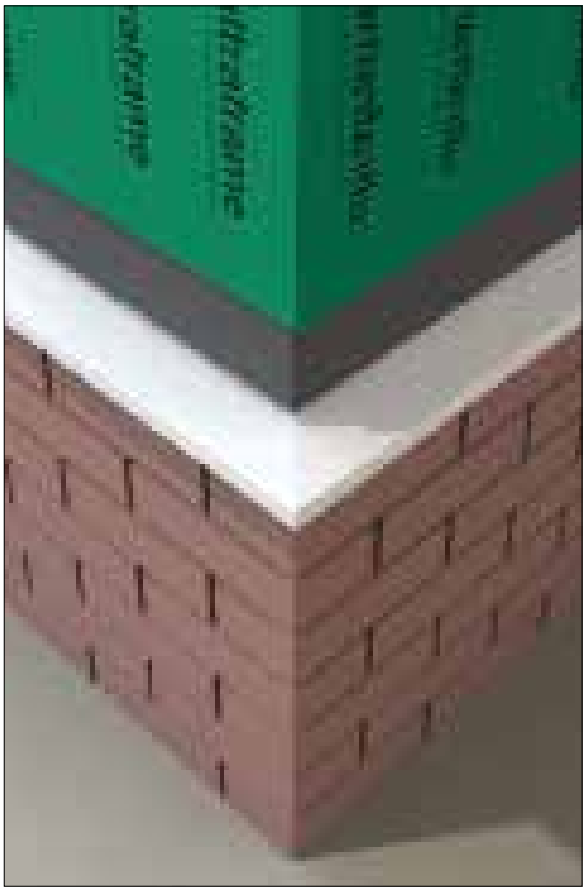
External structural steel post is anchored to footings



In situations where ground conditions slope away, ensure that structural post projects above finished floor by 500mm minimum. If this is not possible contact Ultraframe technical support for advice.

FULL HEIGHT COLUMN ON CILL (CILLS RUN UNDER NOTCHED COLUMN)

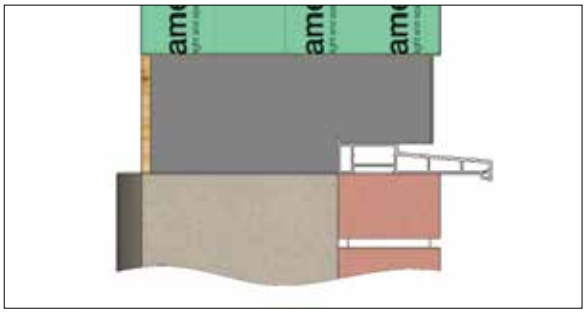
Internal structural steel plate is anchored to slab. Plate may require recessing dependant on finished floor.



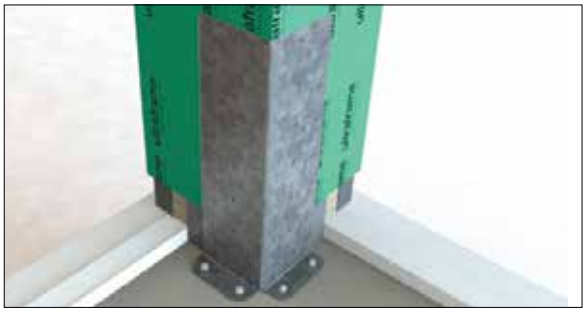
Note: removal of setout post is required to accommodate cill.

Large Corner

If using full height columns on cill, removal of brickwork setout post is required and internal fixing plate is used to fix and stabilize column. There is no requirement for additional internal straps.

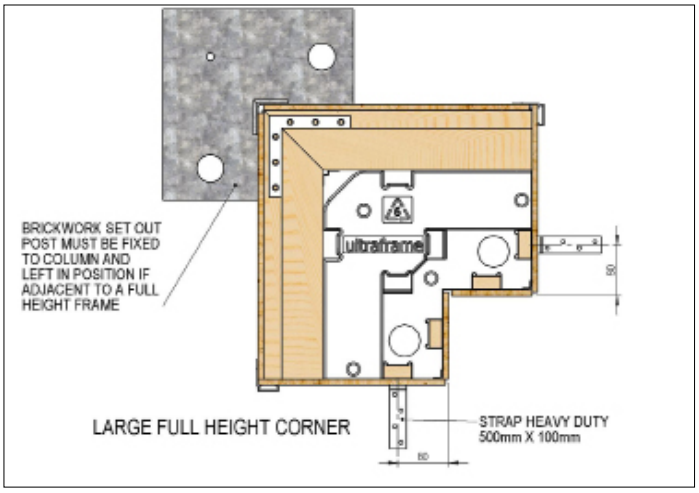


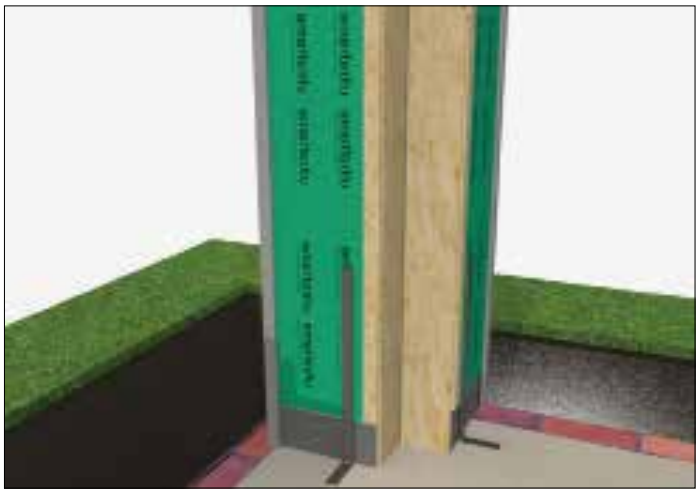
Cill clearance cutout is prepared in the factory.



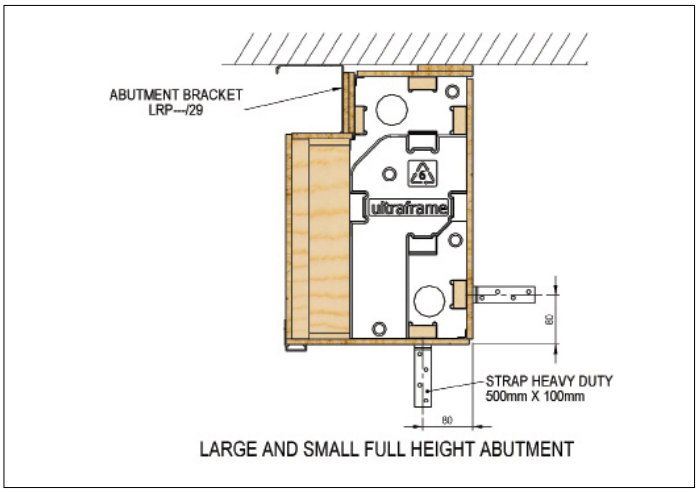
Small Corner

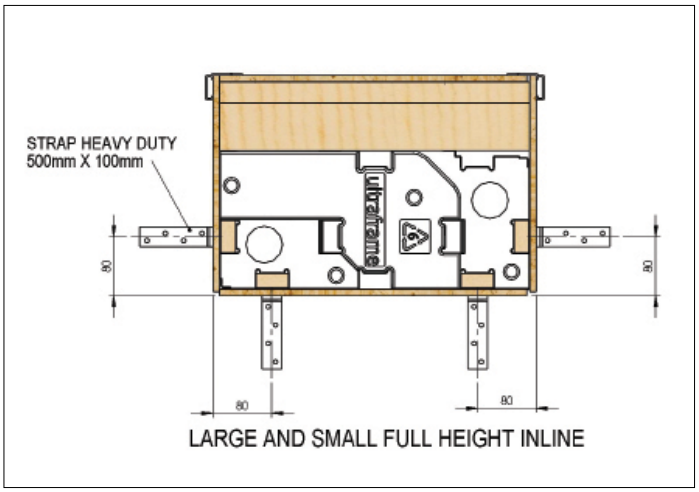
COLUMN STRAPS (FULL HEIGHT)

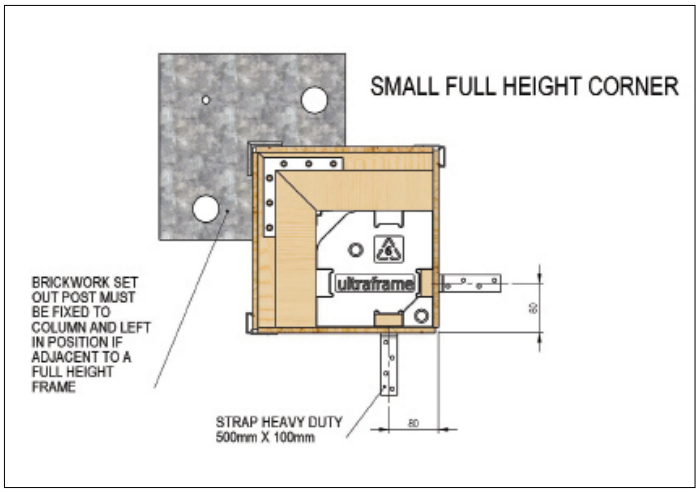




GENERAL NOTES ON COLUMN STRAPS:
1. Fixings to attach to columns are provided, but fixings for other substrates are not supplied.
2. NOTE: IF FIXING TO FINISHED FLOOR LEVEL, STRAPS MAY NEED TO BE SET INTO FLOOR.
3. If straps are specified, they must be fitted and in accordance with rules / centres outlined here.

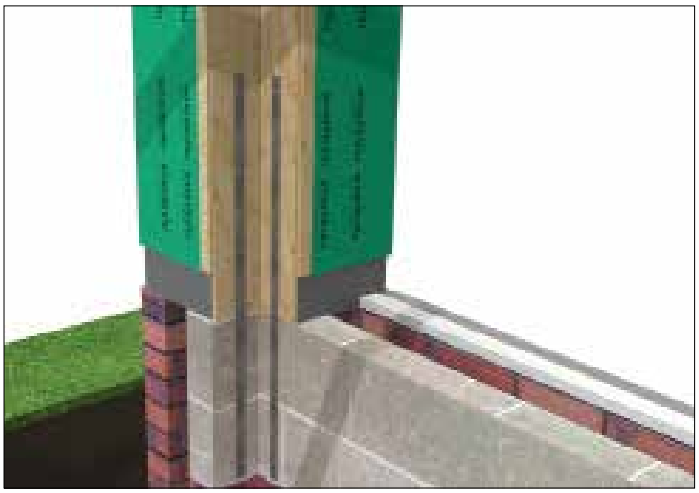






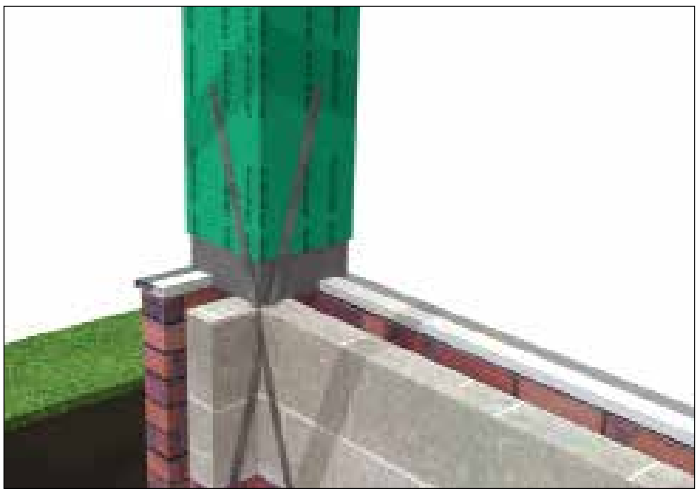
STRAP POSITIONS ON DWARF WALL

ABUTMENT
Fasten straps down inside of wall of abutment column



LARGE 90° CORNER
Fasten straps down inside of walls of large 90° corner column

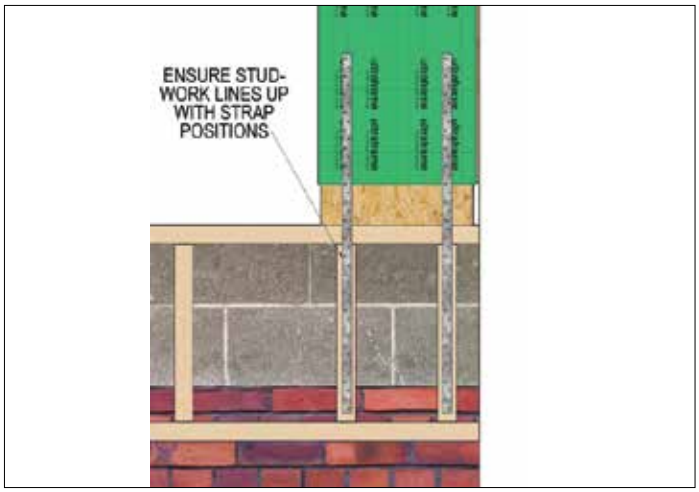
INLINE
Fasten straps down inside of wall of inline column. Use suitable fixing.



SMALL 90° CORNER
Fasten straps down inside of walls of small 90° corner column. Internal brickwork will require grinding to create relief for strps to cross over.

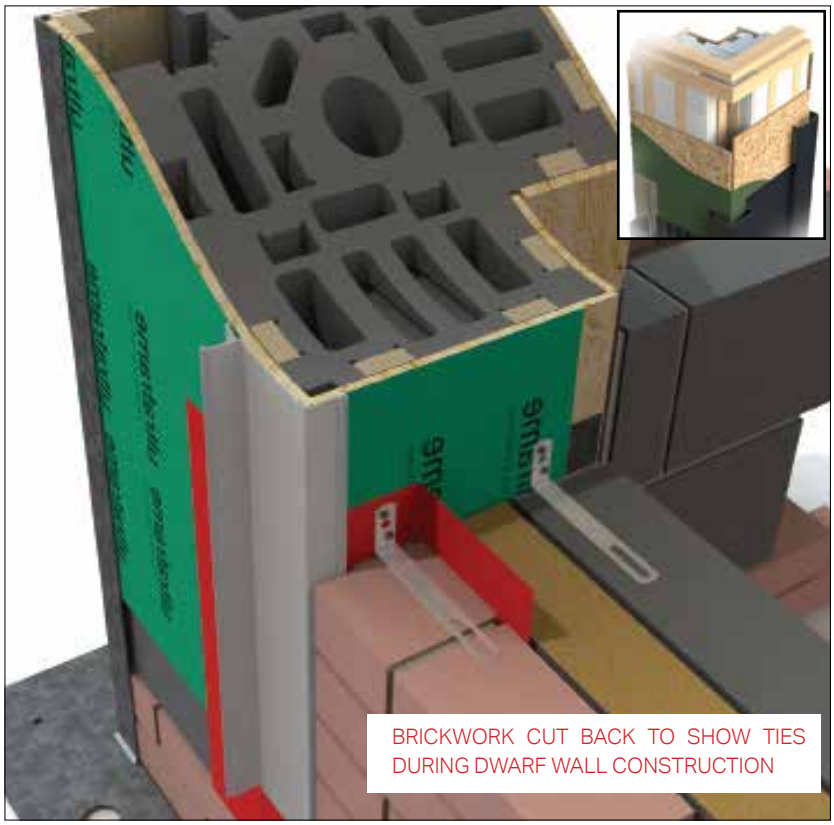
STRAPPING ON 250MM DWARF WALLS

STRAPS **MUST** LINE UP WITH STUDWORK

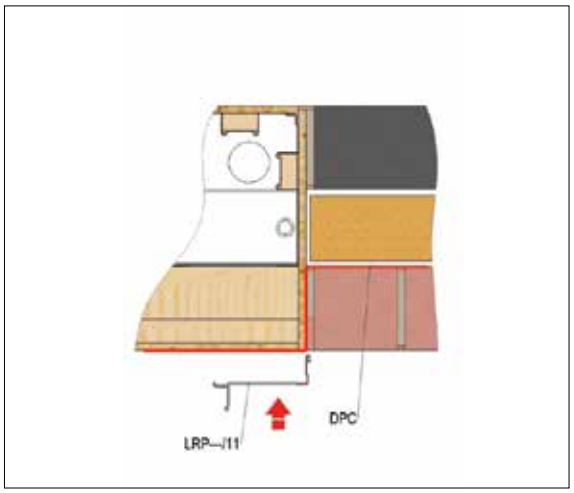


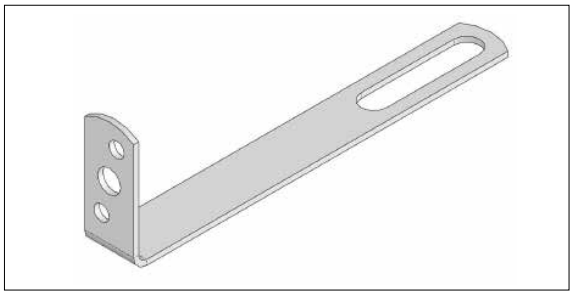
STRAPS **MUST** LINE UP WITH STUDWORK

BRICK TIES AND STRAPS



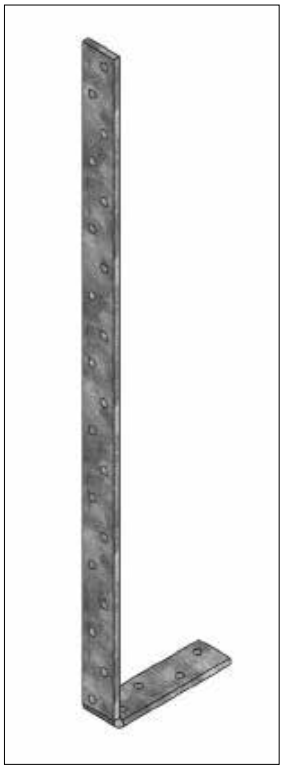
Temporarily remove brick set out spacer. Ensure that DPC is inserted as shown. Refasten brick set out spacer. Fasten brick ties into column as courses of brick are built. NOTE: COLUMN TO BRICKWORK TIES SET AT MAX 300MM CENTRES ON BOTH INTERNAL AND EXTERNAL WALL MIN 2 NO. REQUIRED PER LEAF.





LRP026
Column brick tie

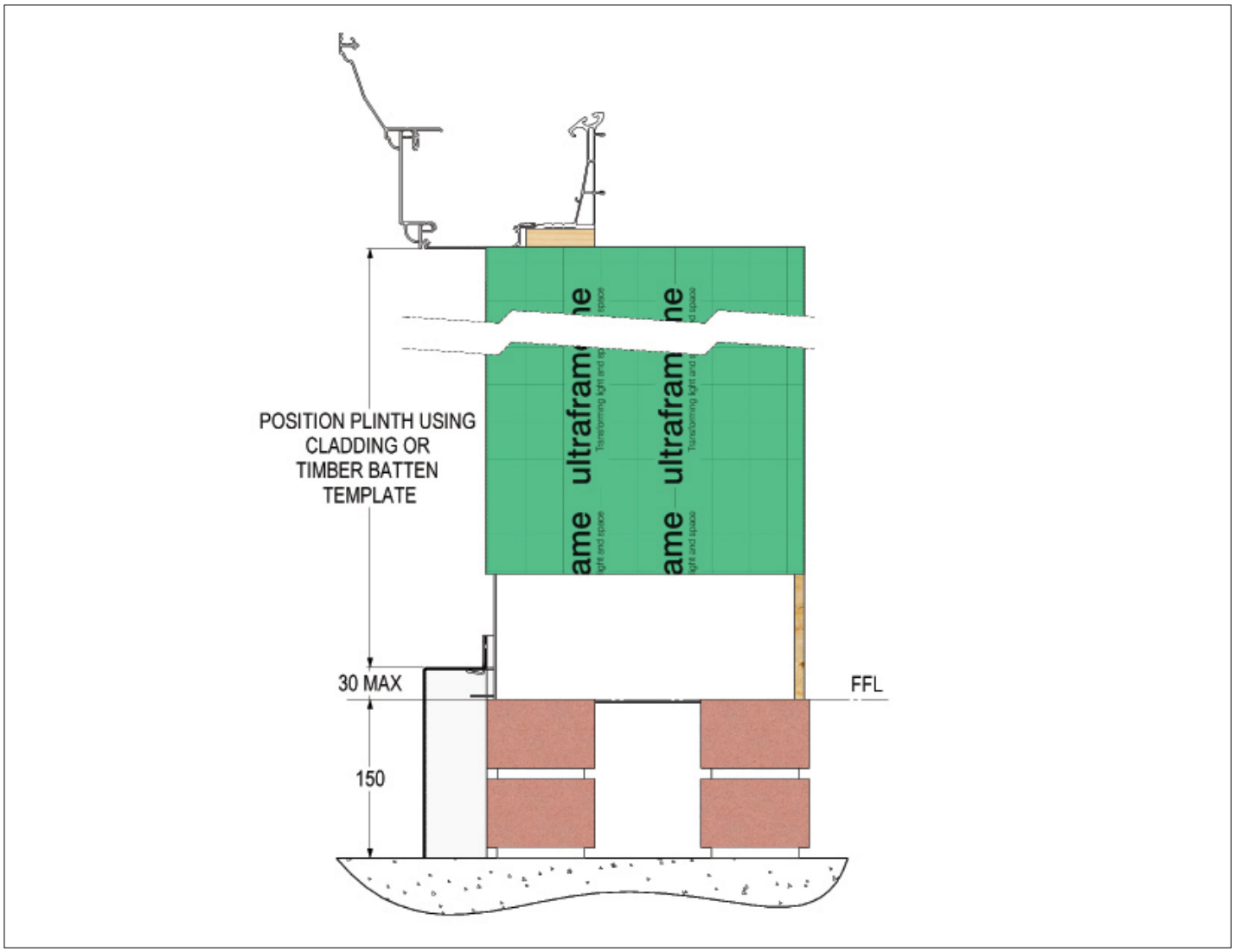
Minimum of 2 straps required. See installation guide for quantity and position of column. For columns on wall, LRP042 (straight support strap) is required running down inside of wall.



LRP027
Column support strap tie

LRP042
Column support strap tie (straight)

COLUMN PLINTH POSITIONING / FINISHING



Level Ground

- Measure cladding length to set the top of the column plinth.
- Measure down from underside of Cornice or cill for bespoke size.

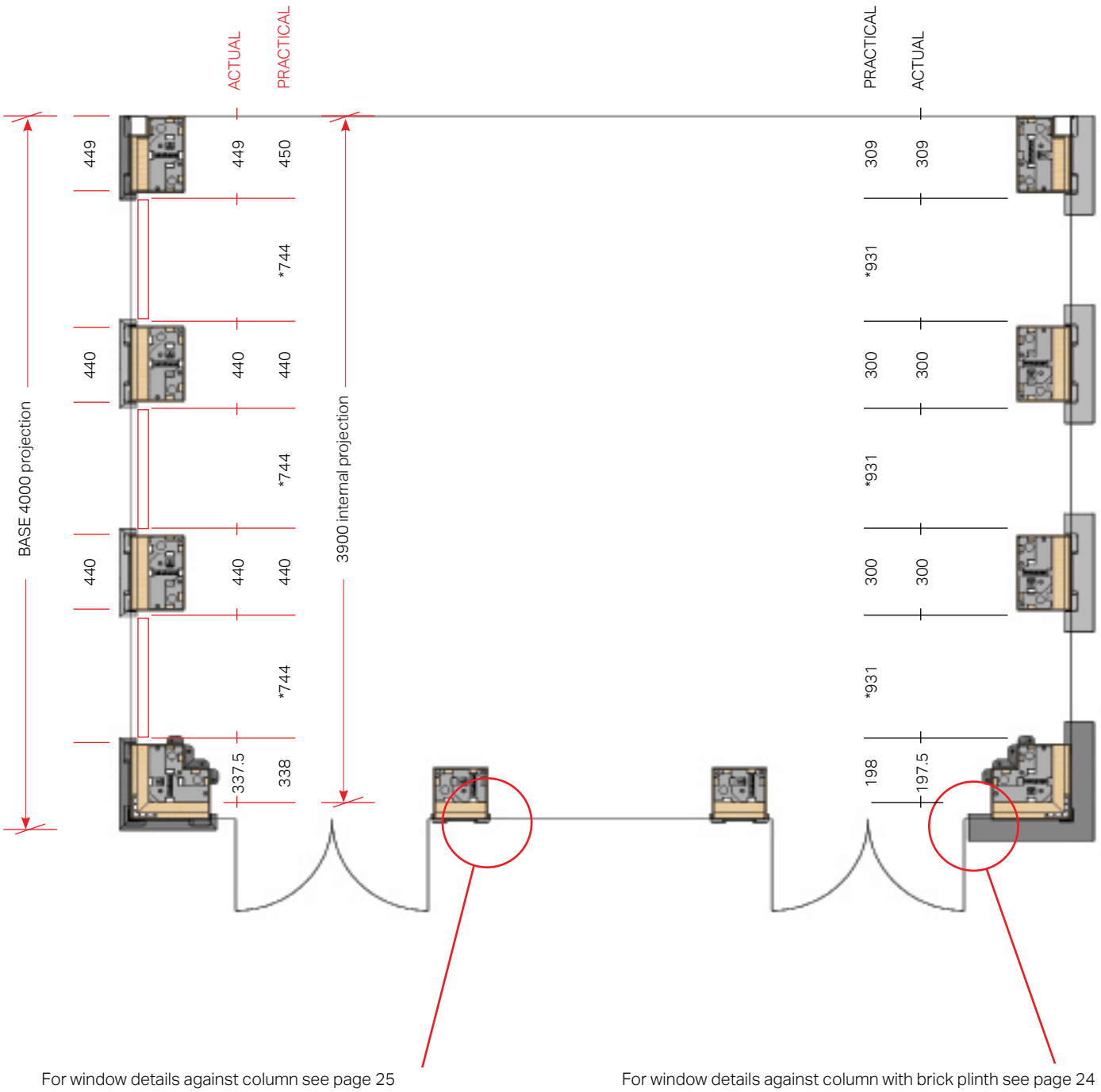
Sloped Ground

Position plinth against brickwork (to suit ground conditions). Mark through holes in plinth and then drill and plug wall. Screw plinth to wall.

Typical build with sloping ground conditions. The suitable dressing and landscaping with gravel or bark will finish this area, at the homeowners instructions.

WINDOW AND DOOR INFORMATION - EXAMPLE

Turn to pages 24 / 25 for frame information on frame add ons around our door openings.



For window details against column see page 25

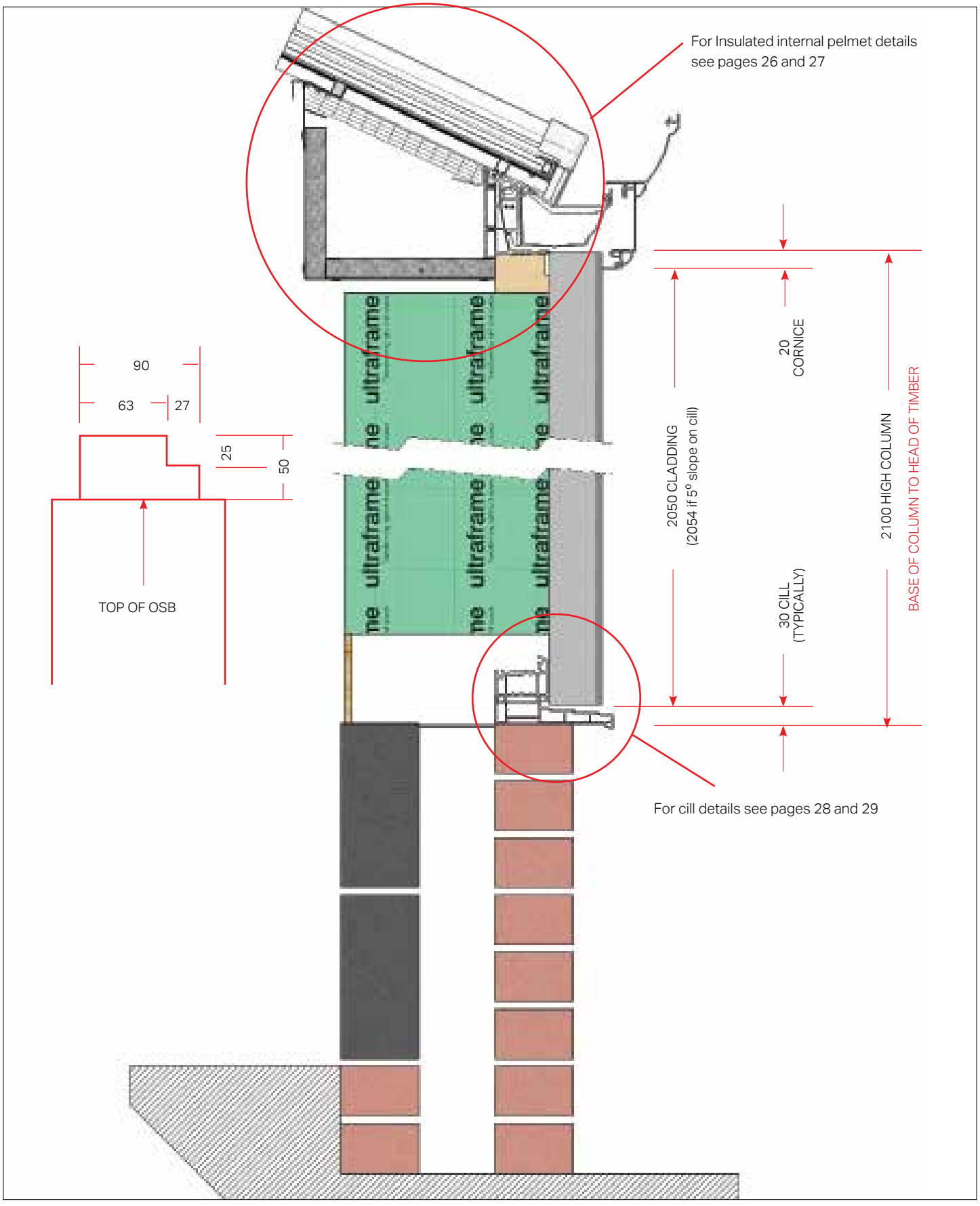
For window details against column with brick plinth see page 24

LARGE COLUMNS
* Tight sizes
(Less 6mm for frame width)

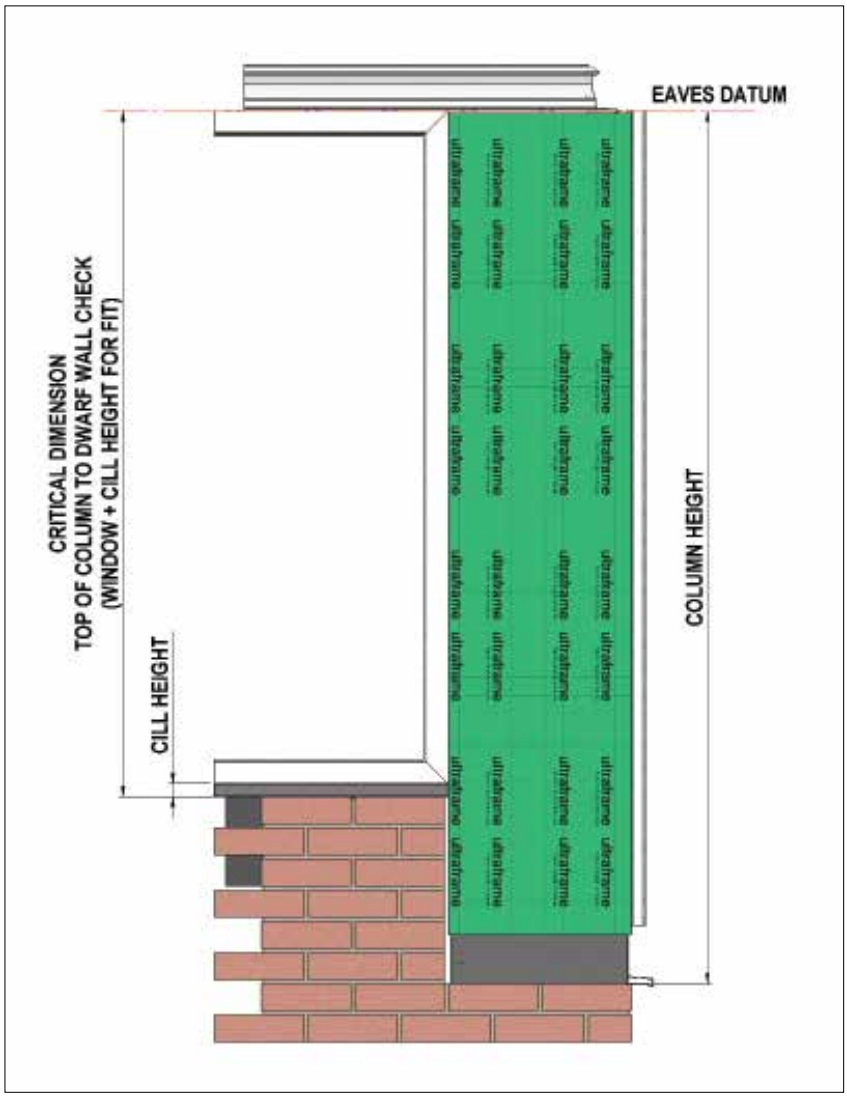
SMALL COLUMNS
* Tight sizes
(Less 6mm for frame width)

INSULATED INTERNAL PELMET PERIMETER CEILING

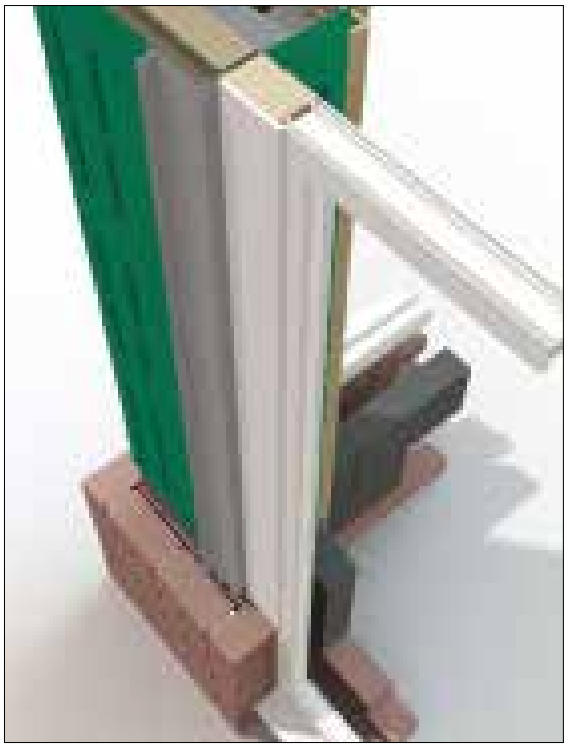
Turn to pages 26 / 27 for frame information on detailing when the frame profile IS NOT 70mm



WINDOW FRAME AND DOOR ADD ONS

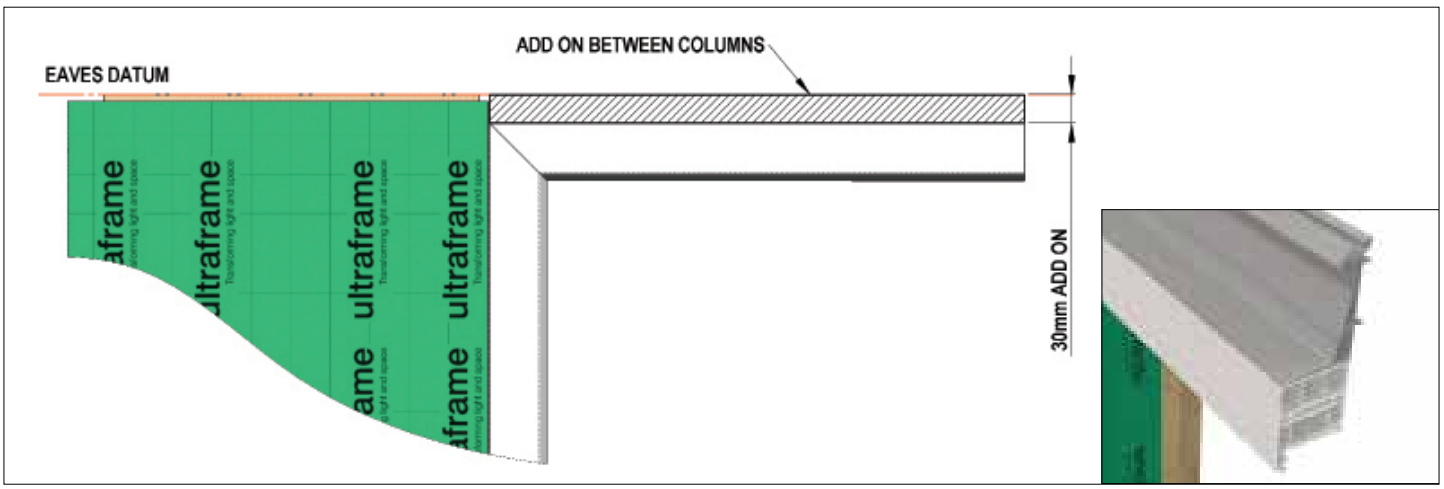


Frame add ons run between columns only and must not run over columns. Where brick plinths are specified, frames require packing with multiple frame add ons or timber and multiboard to space beyond brickwork. It is advisable to use a frame add on for a door next to a column to ensure that hinges do not foul. Check hinge position on door frames.



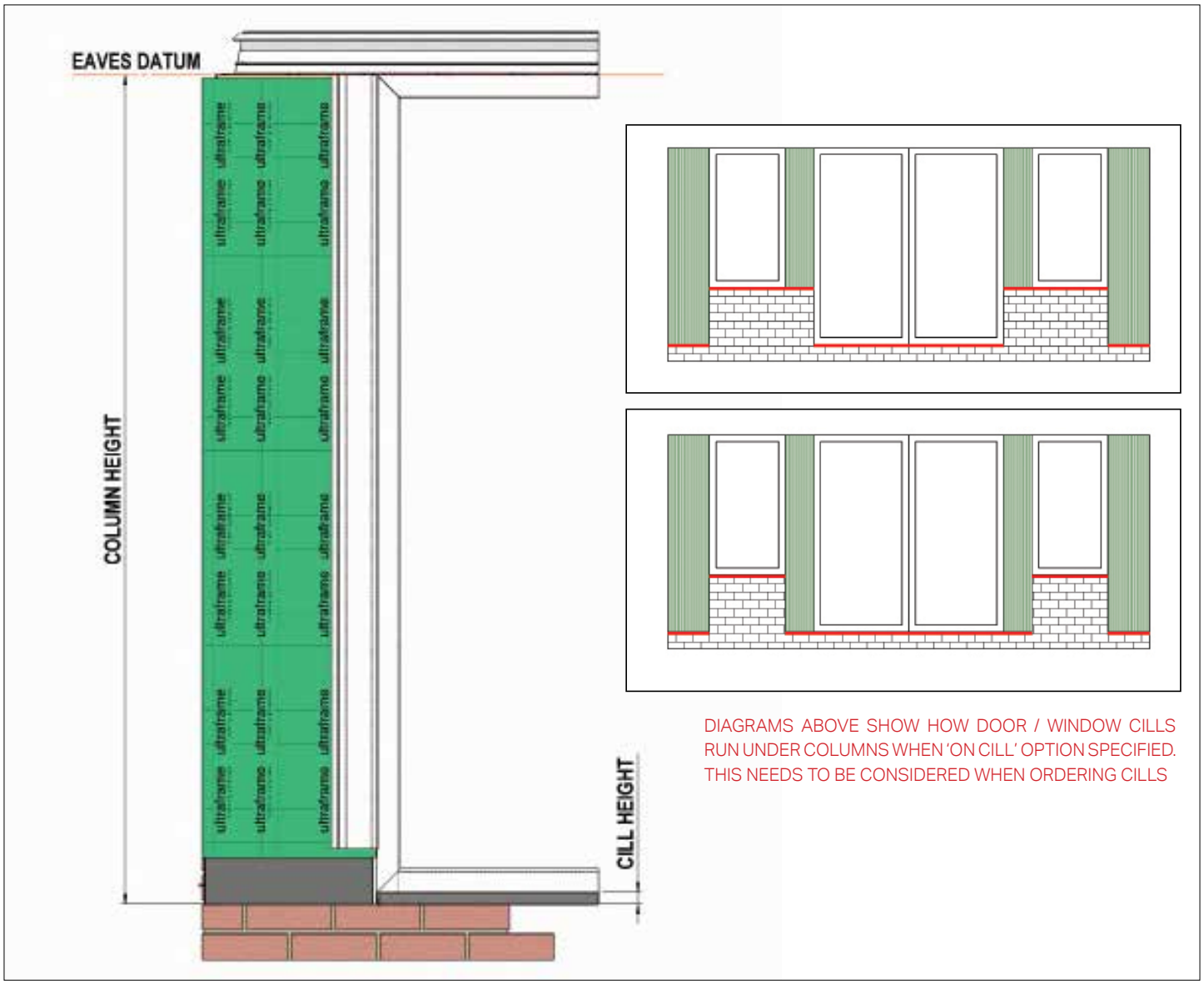
Pack detail shown between column and full height frame/ door when using brick plinths above DPC level.

INSULATED INTERNAL PELMET ADD ON

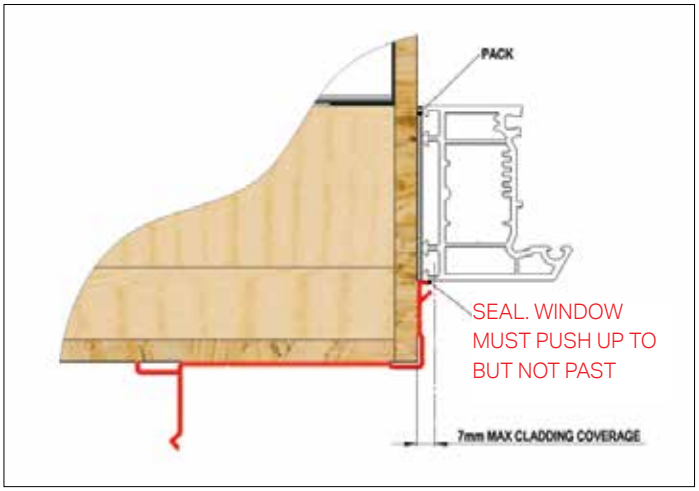


A 30mm (minimum) add on required if specifying Insulated internal pelmet (below fascia) Add on only required between columns. NOTE: DO NOT RUN ADD ONS ONTO OR OVER THE COLUMN

WINDOW HEIGHTS



NOTE: Ensure when ordering frames based on column heights that overall height includes cills and frame add ons.
RECOMMENDATION OF 5mm DEDUCTION OFF OPENING SIZE



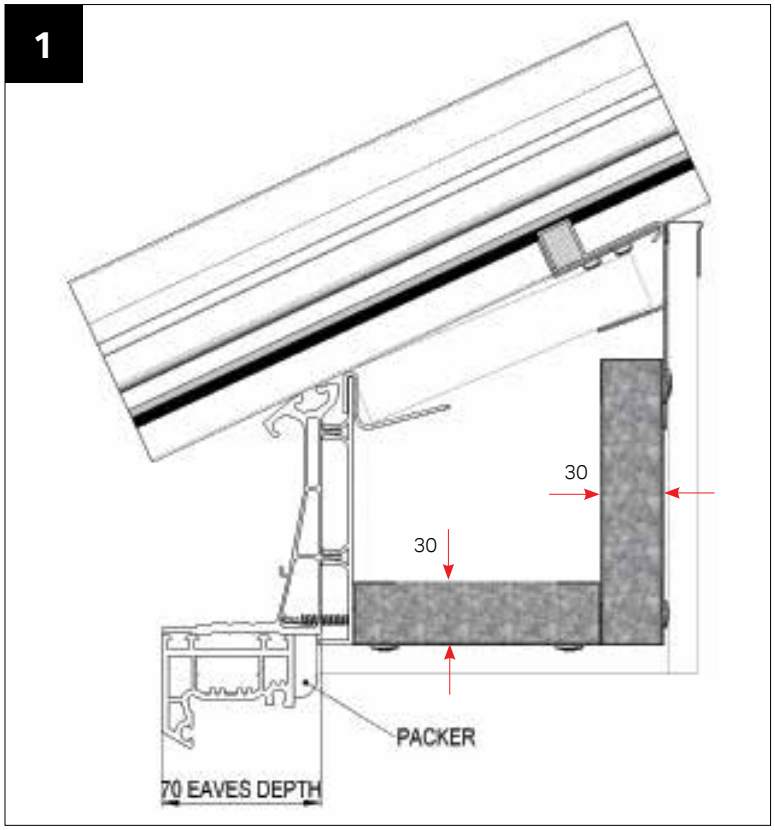
Fit windows against cladding clips as shown. Pack if required and seal against cladding clip. IMPORTANT: CLADDING ALLOWS 7mm COVERAGE

Fit and seal windows / doors against clips

INSULATED INTERNAL PELMET WITH WINDOW FRAME SIZES LESS THAN 70MM

Insulated internal pelmet and super-insulated columns are designed for 70mm deep window frames. If using window frames smaller than 70mm, packing is required as shown in the figures below.

1

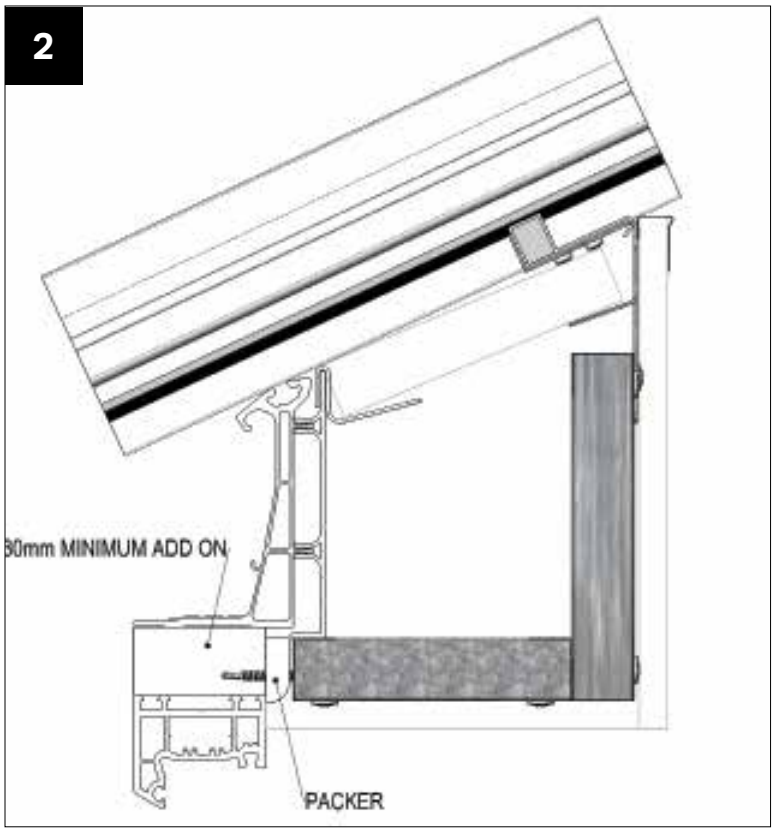


ON FASCIA
Packer is required behind PFTB fascia board to stop it collapsing when fixing back horizontal Insulated internal pelmet framework. Packer can then be plastered up to.

Packer size = 70mm - frame size

TIMBER PACKERS, TRIMS OR FRAME ADD ONS NOT SUPPLIED

2



BELOW FASCIA
Packer is required behind horizontal Insulated internal pelmet framework.
Packer size = 70mm - frame size

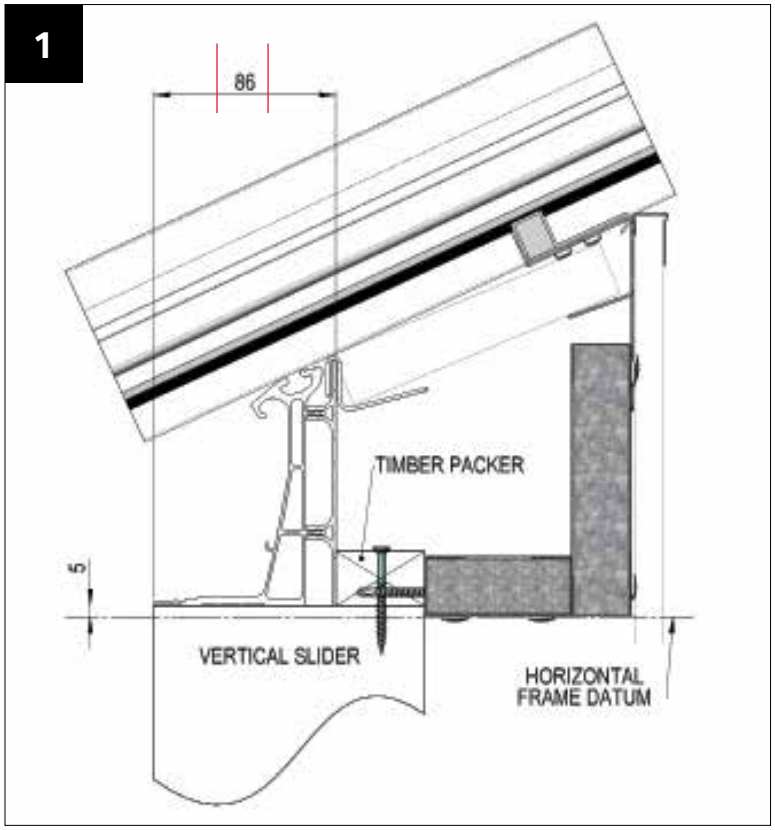
TIMBER PACKERS, TRIMS OR FRAME ADD ONS NOT SUPPLIED

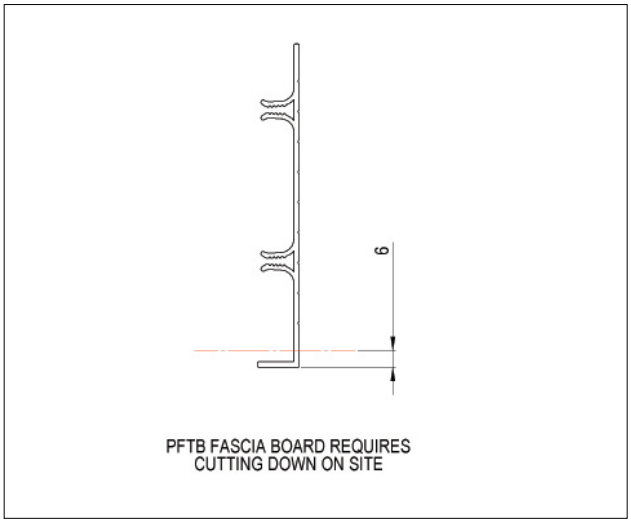
INSULATED INTERNAL PELMET WITH WINDOW FRAME SIZES GREATER THAN 70MM

Insulated internal pelmet and super-insulated columns are designed for 70mm deep window frames. If using window frames larger than 70mm the Insulated internal pelmet frame requires reducing to suit.

Contact Ultraframe technical support so that adjustments can be made to the framework.

1



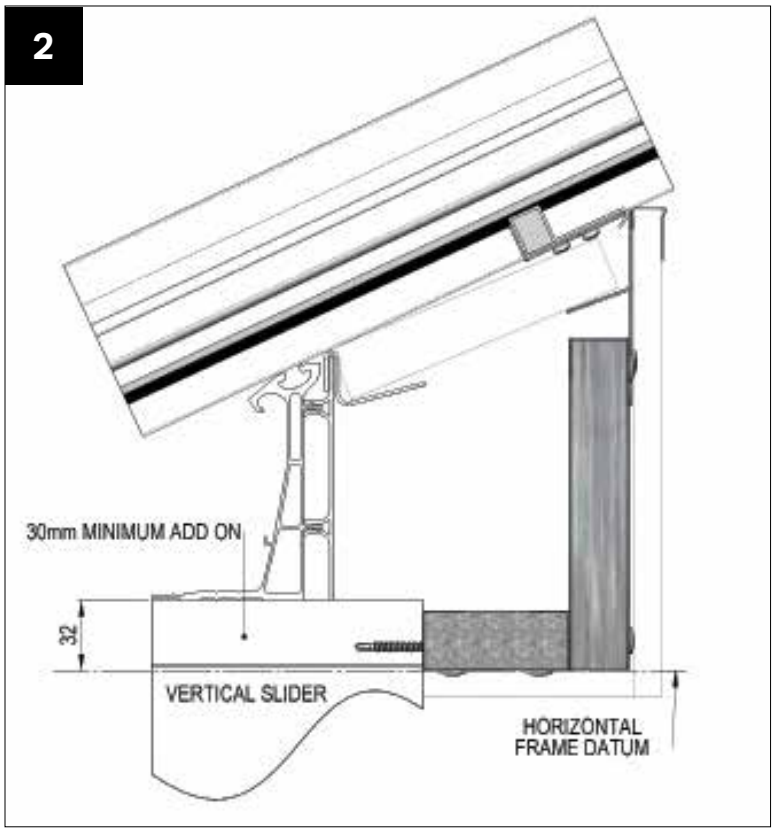


ON FASCIA / VERTICAL SLIDER

1. PFTB Fascia requires cutting down by 6mm as shown above.
2. Overall eaves size, including PFTB is 86mm.
   Timber packer required = Frame depth - 86
3. This size is also the deduction for Insulated internal pelmet horizontal frames

TIMBER PACKERS, TRIMS OR FRAME ADD ONS NOT SUPPLIED

2

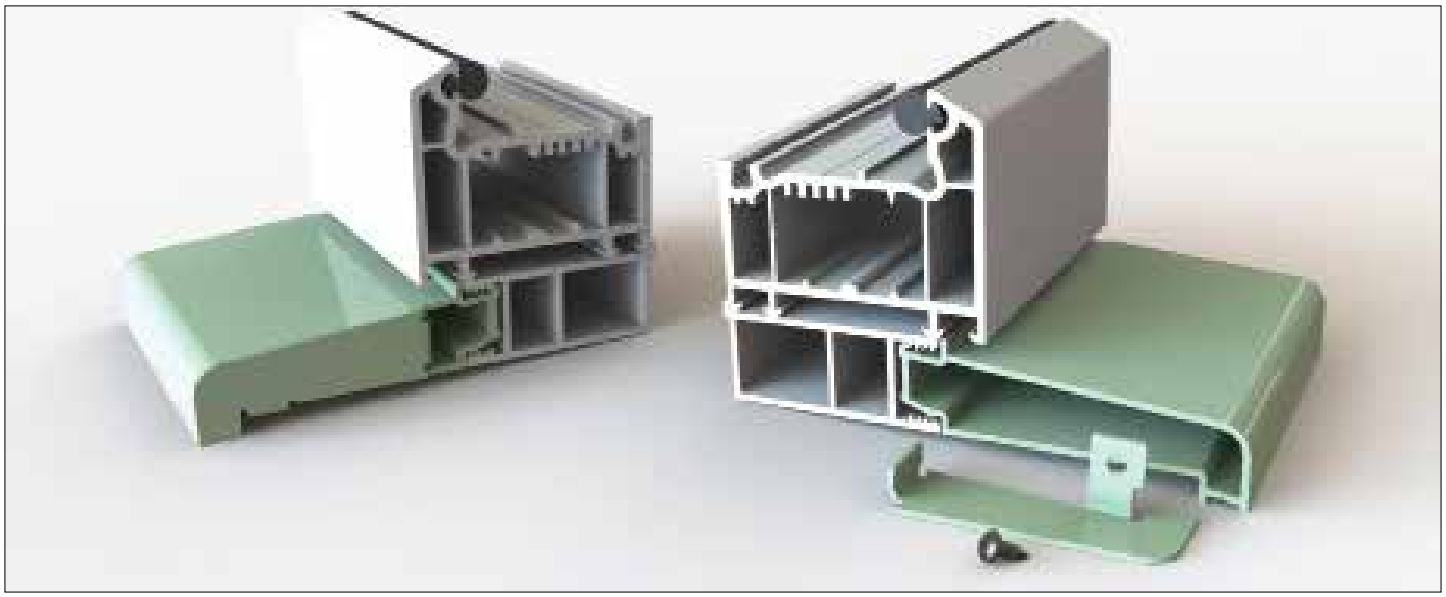


BELOW FASCIA / VERTICAL SLIDER

1. 30mm (minimum) add on is required above frames (as shown)
2. Horizontal frame is positioned 32mm below the underside of the eaves beam.

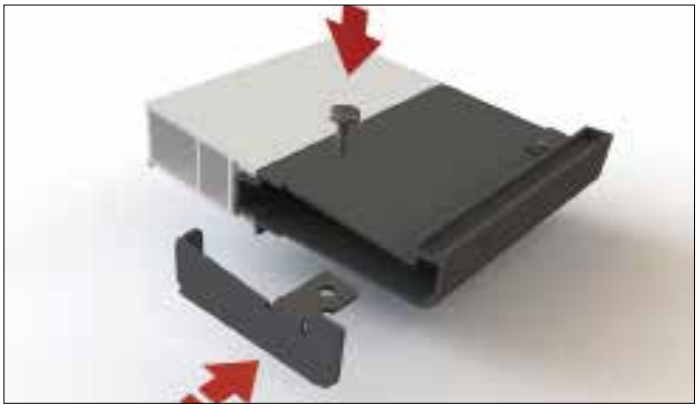
TIMBER PACKERS, TRIMS OR FRAME ADD ONS NOT SUPPLIED

CILL OPTIONS - 130MM ALUMINIUM CILL (ULTRAFRAME SUPPLIED)



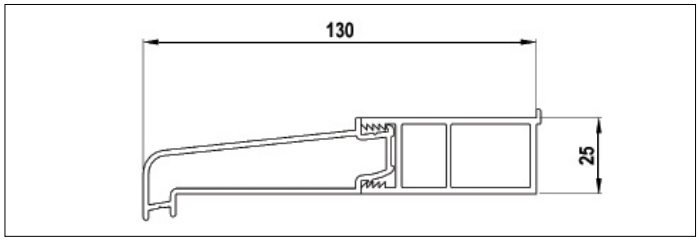
STRAIGHT RUN ONLY BETWEEN COLUMNS

130mm aluminium cill with endcaps. This is supplied (when ordered) by Ultraframe.

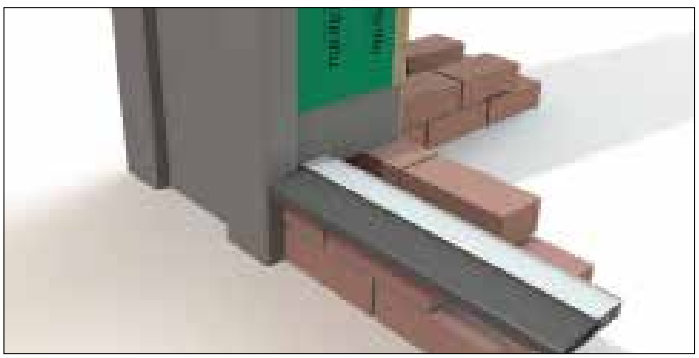


Attach endcaps as shown using self drill screw supplied.

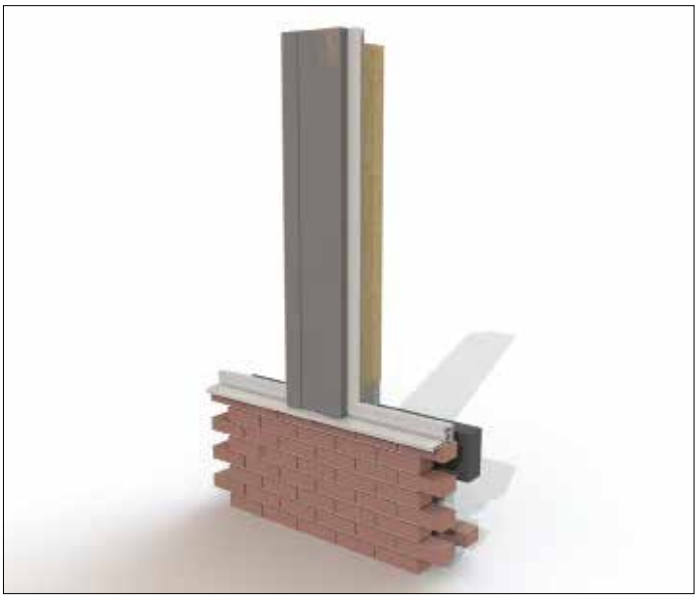
130mm cill has been designed so that it runs into the column claddings without any overhang or requirement for endcaps.



Overall dimensions of cill **CILL THICKNESS IMPORTANT WHEN DETERMINING FRAME HEIGHTS**



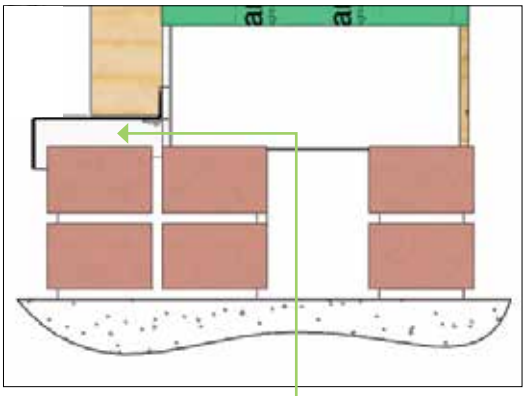
Used between columns



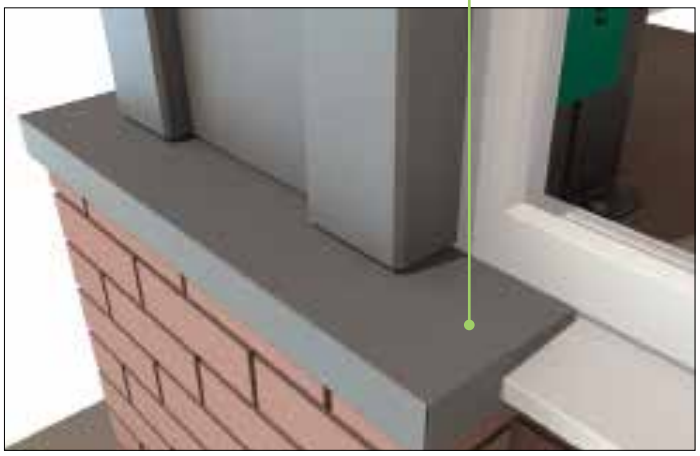
Inline column on wall

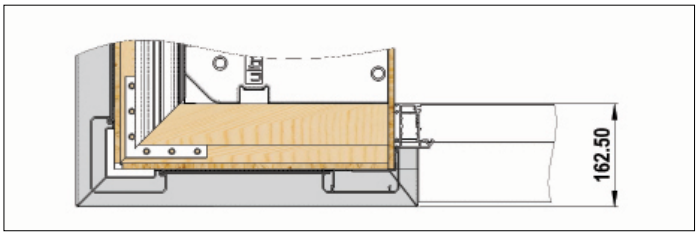
CILL OPTIONS - 150MM PVCU CILL (NOT SUPPLIED BY ULTRAFRAME)

150mm PVCu cill against large column. Endcaps are required as cill will overhang the column claddings

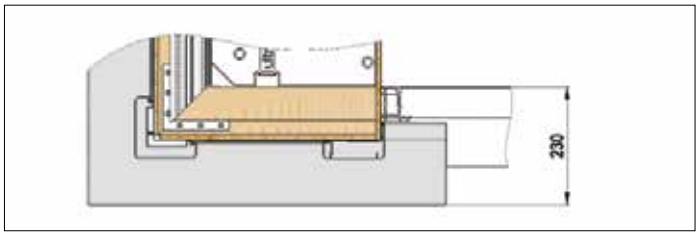


PACK TO SUIT



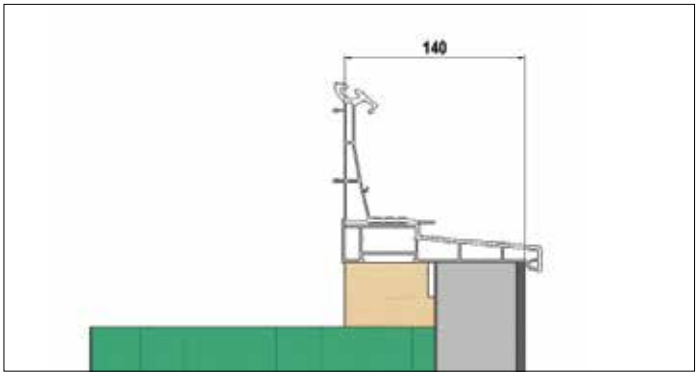


150mm cill against plinth. Both large and small plinths are the same projection



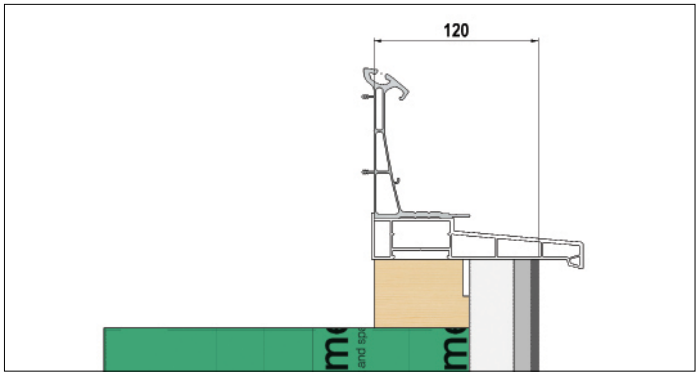
150mm cill against the brick plinth cap. Both large and small brick plinth caps are the same projection

CILL DETAILS AT TOP OF COLUMN



Large

Large column claddings require a minimum clearance of 140mm from internal frame line. Ensure that drip profile on nose of cill overhangs claddings sufficiently.



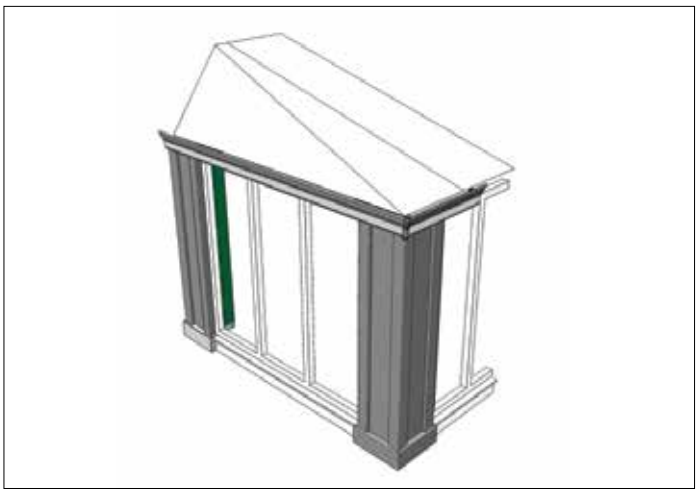
Small

Small column claddings require a minimum clearance of 120mm from internal frame line. Ensure that drip profile on nose of cill overhangs claddings sufficiently.

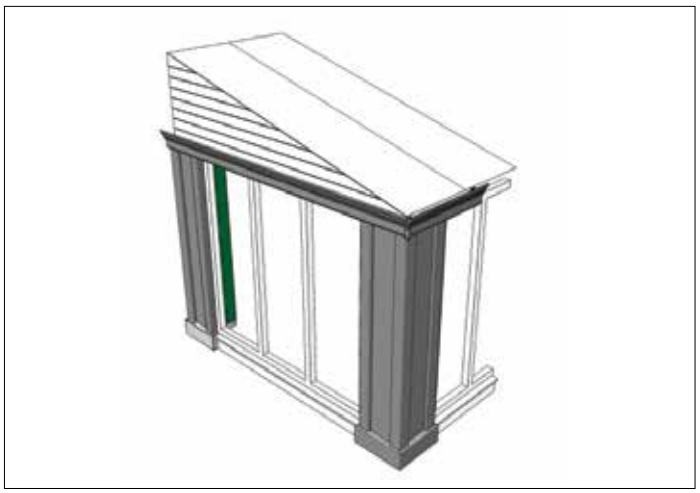
CORNICE DETAILING

Hipped end

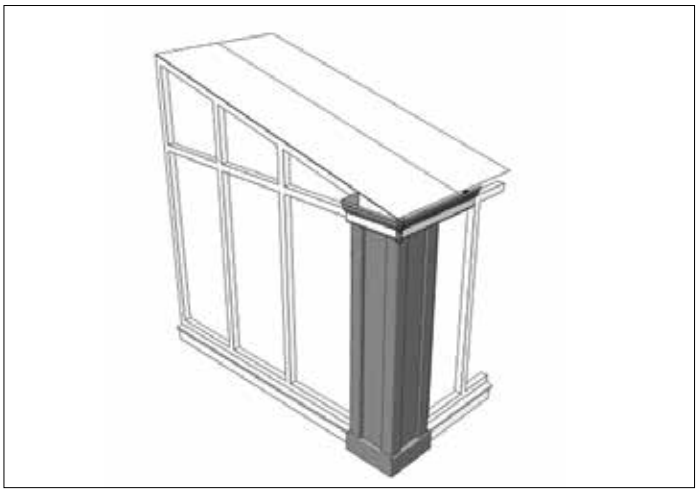
Self manufactured firring* - see illustration B on p31



Hipped end with abutment



Self manufactured firring with abutment. This design uses Ultraframe's Gable support beam - see illustration B on p31

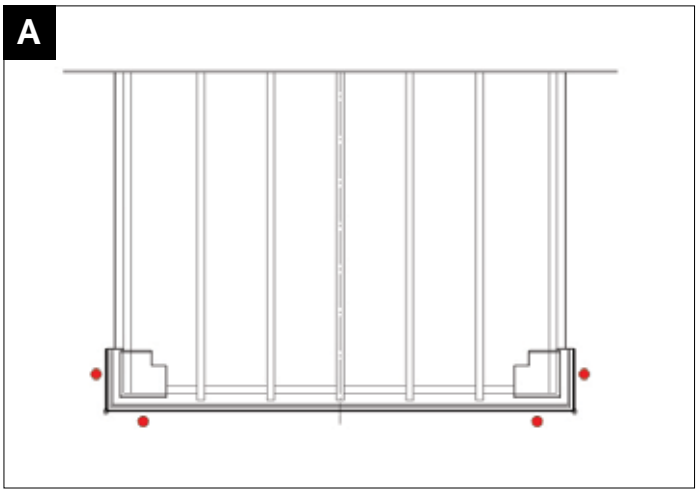


Raked frame - see illustration A on p31

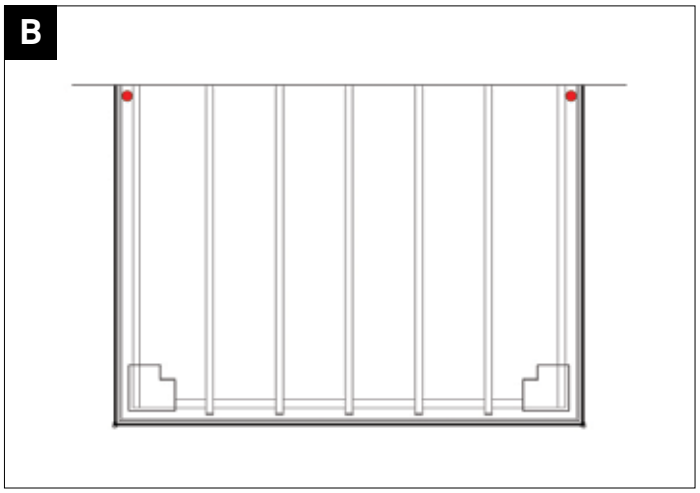
Options	Full return hip	Full return firring	Raked FR Short return SM infil wedge
Full height/ dwarf walls	✓	✓	✓
Standard eaves	✓	✗	✗
Gable beam	✗	✓	✗
Inline columns	✓	✓	✗
Abutment columns	✓	✓	✗
Concealed downpipe	✓	✓	✗
Raked frames	✗	✗	✓
Firring*	✗	✓	✓

*Cannot be used with Classic low pitch or Ultraframe's own firrings.

CORNICE AND RAINWATER PIPE POSITIONING



SHORT RETURN GABLE. If unable to return back to house wall use Elephants Trunk outlet (Cornice) or inline outlet for 67° obtuse round (cill) positioned centrally on column in one of the positions shown.



FULL RETURN GABLE. If no abutment column is specified or abutment column is not full height, use Elephants Trunk outlet (Cornice) or inline outlet for 67° obtuse round (cill) positioned centrally on column. Alternatively return the guttering to the house wall.

SHORT RETURN WITH CORNICE. If unable to return back to house wall use Elephants Trunk outlet positioned centrally on column.

SHORT RETURN WITH CILL. If unable to return back to house wall use inline outlet for 67° obtuse round, positioned centrally on column.

NOT RECOMMENDED

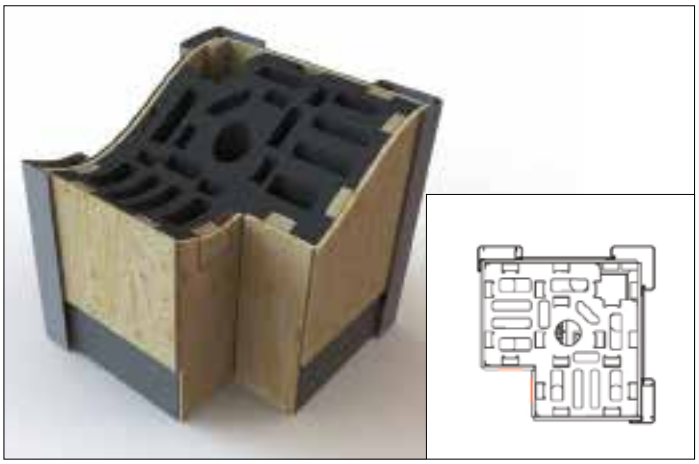
Return Cornice and guttering along host wall.

Elephants Trunk outlet. If it is not possible to have full height columns i.e. on dwarf wall.

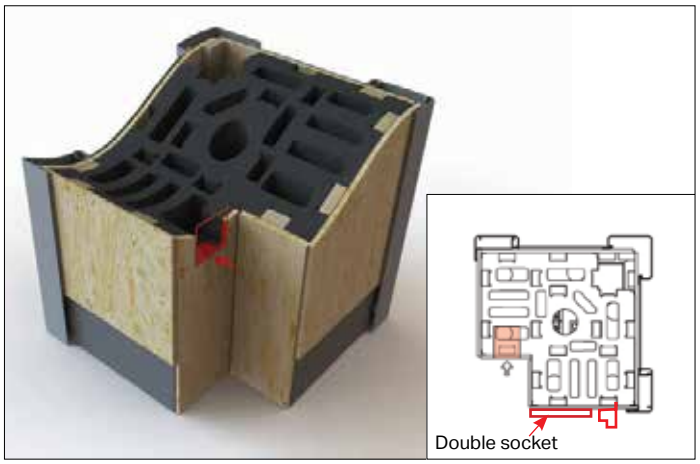
Concealed downpipe. Only available for full height columns. Requires specific base detail. (See page 13)

COLUMN WIRING AND CABLE DUCT POSITIONS

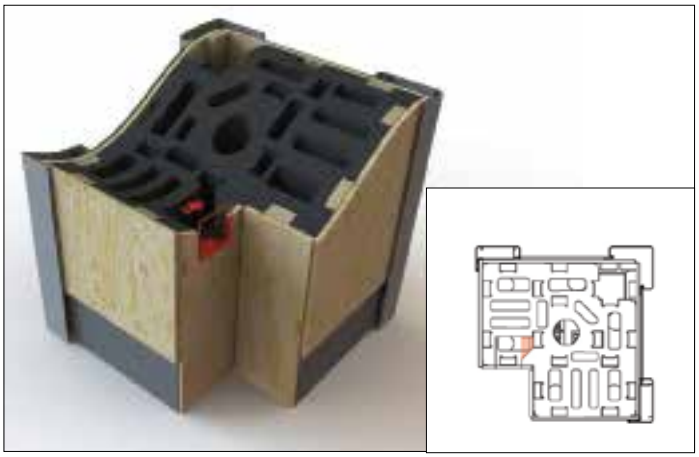
Any wiring must be completed by a qualified electrician and in accordance with latest IEE Regulations. ‘faster fix’ PVCu back box.



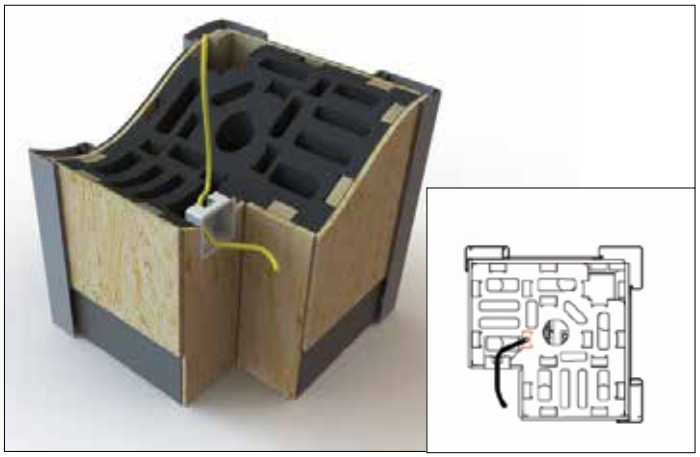
Mark position of back box central to face



Drill and cut through OSB, batten and polystyrene into chamber as shown.

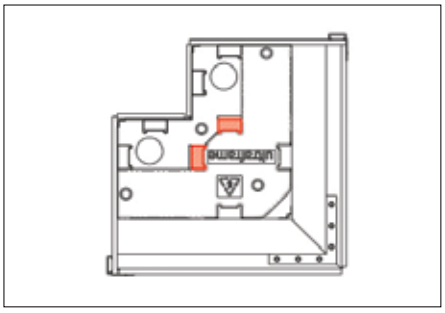


Using fingers or screwdriver, break through polystyrene wall into internal chamber

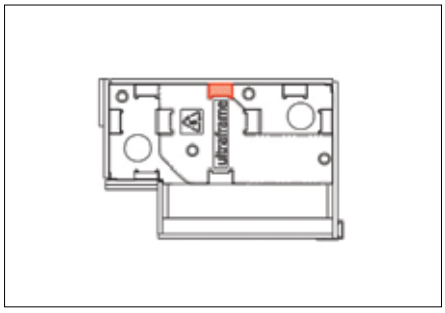


Feed cable down column through chamber shown and out through cutout.

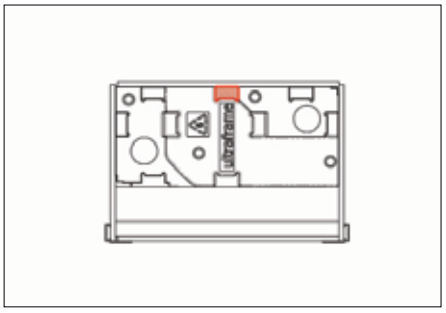
WIRING - POCKET POSITIONS



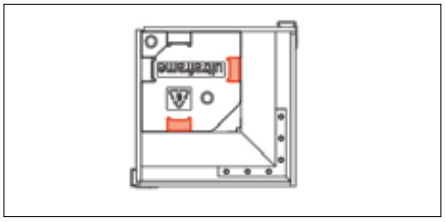
90° Corner column large



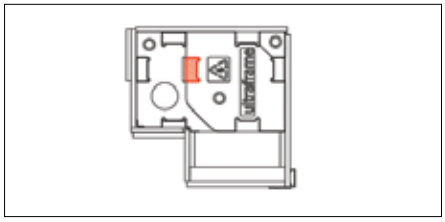
Abutment column large



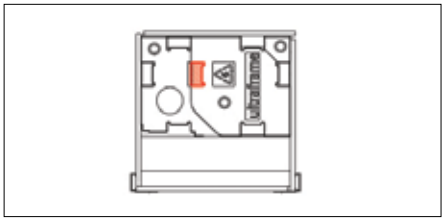
Inline column large



90° Corner column small

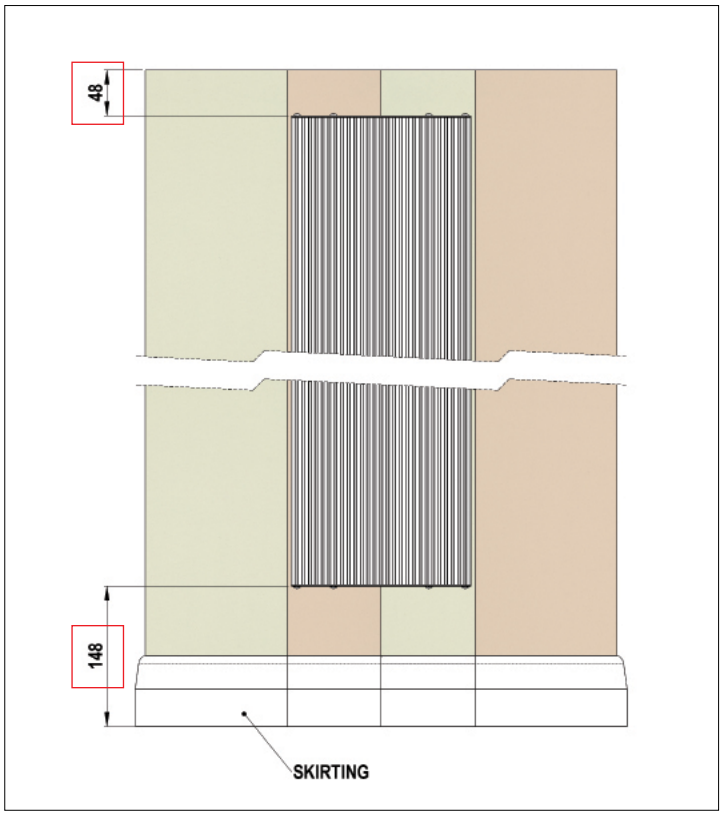


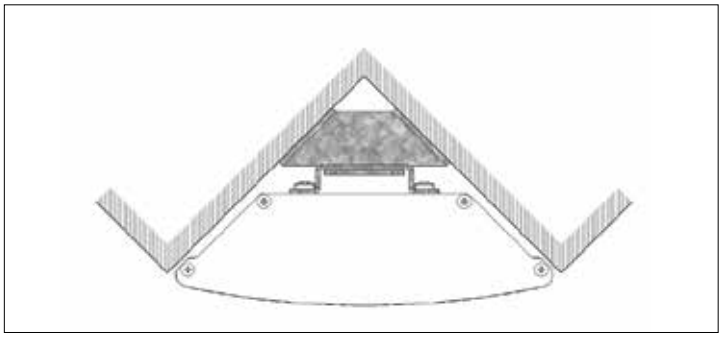
Abutment column small



Inline column small

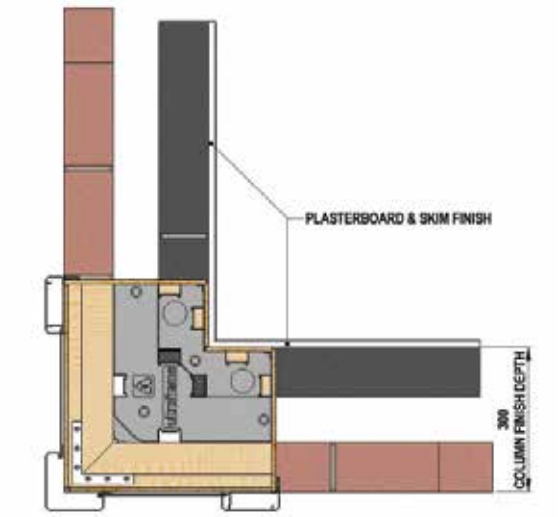
HEATER - SEE SEPARATE DATASHEET





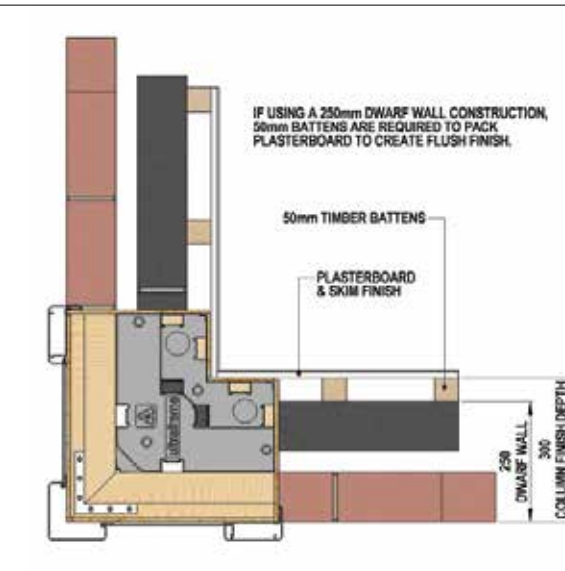
PLASTERBOARDING

1



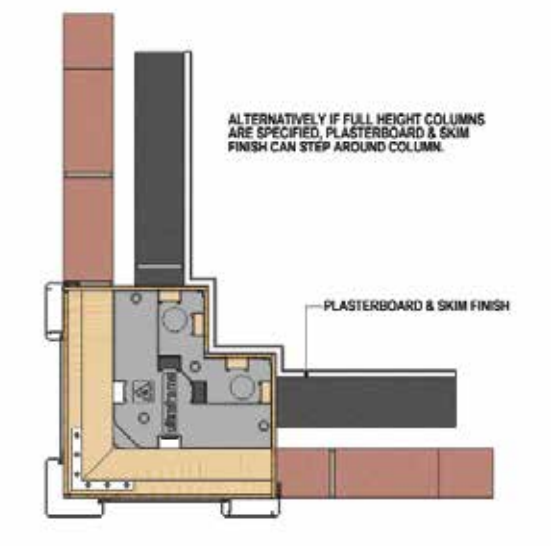
300mm WALL
Plasterboard directly to column and wall

2



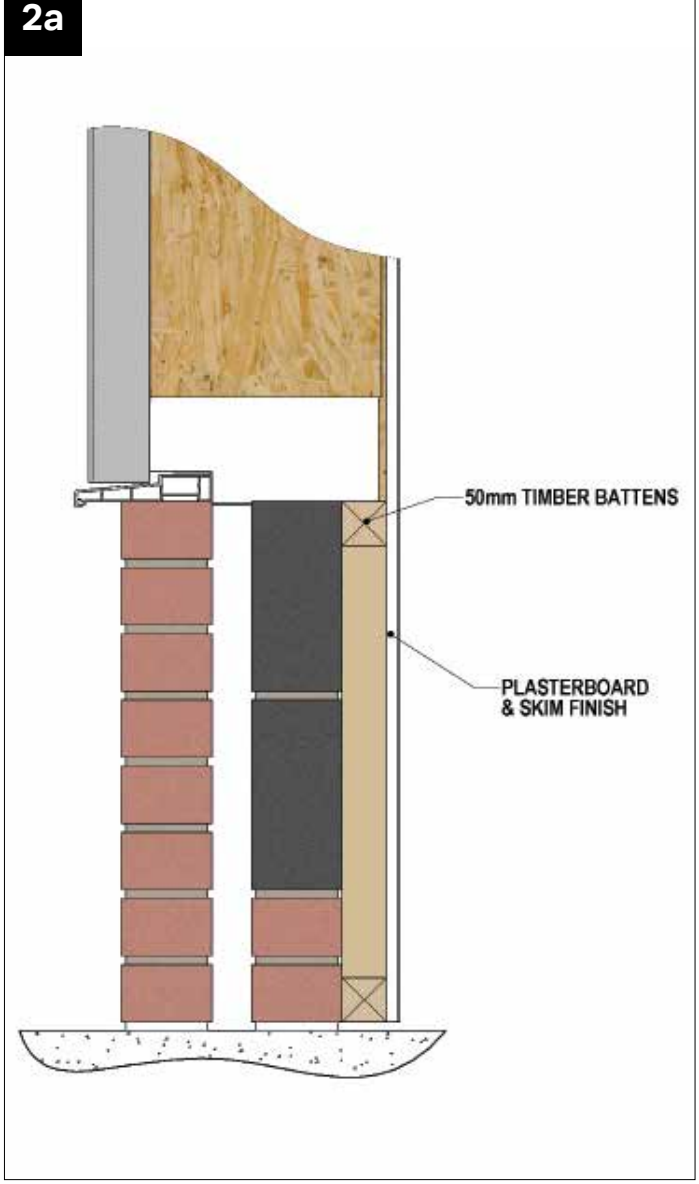
250mm WALL
If using a 250mm wall, pack out plasterboard 50mm from column as shown

3



250mm WALL (full height columns)
If using full height columns with a 250mm wall, plasterboard can be stepped around the columns as shown.

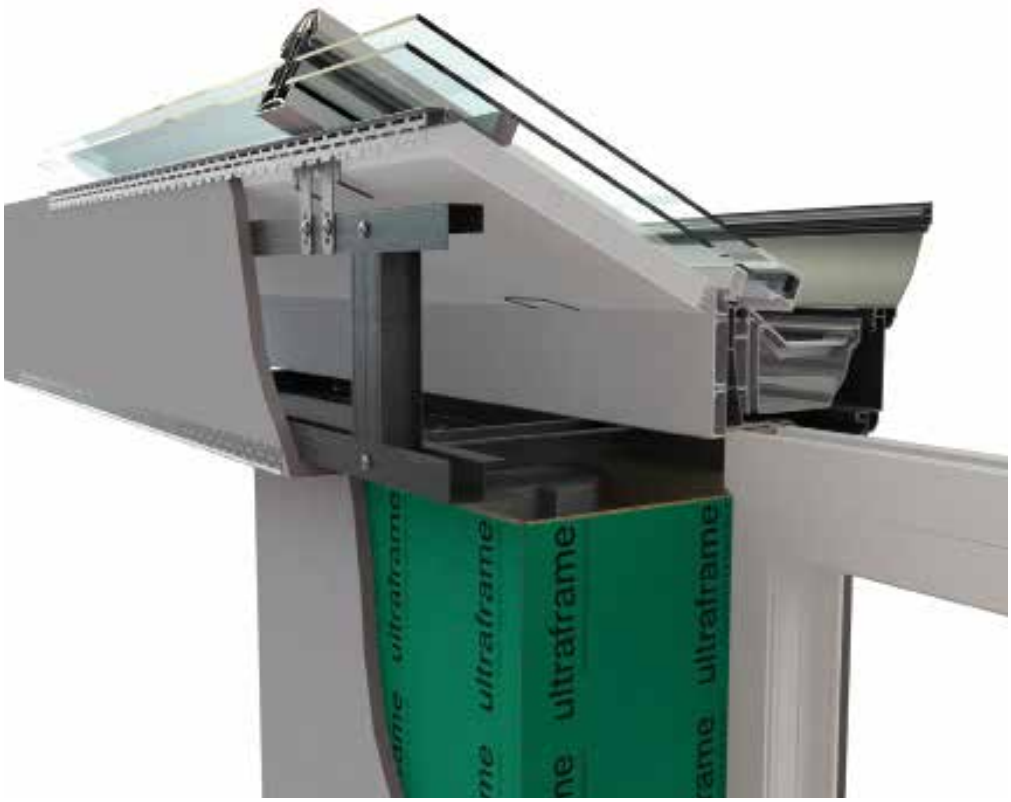
2a



NOTE: 12.5MM FOIL BACKED PLASTERBOARD SHOULD BE USED WHEN BOARDING COLUMNS

COLUMN INTERNAL FINISHING

Clearly showing interface between super-insulated column, Insulated internal pelmet and roofing members.



Suggested finish if Insulated internal pelmet NOT specified

Timber Cap - exact finish at fitters discretion

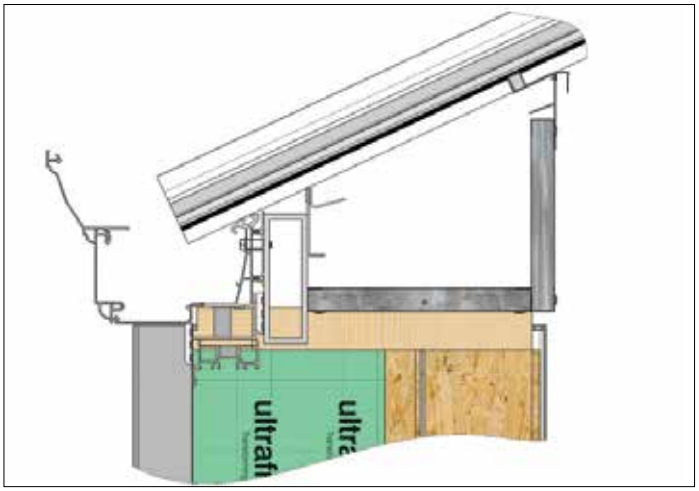
CAPPING NOT SUPPLIED

GOAL POST GENERAL ARRANGEMENTS

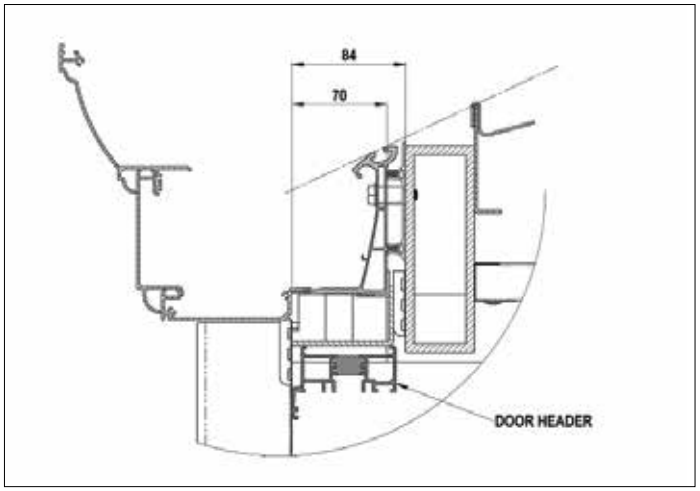
Please accept this general guidance - always 'engage' Ultraframe's Technical Support Team Structural Engineer at the earliest possible stage - call 01200 452918 or email techsupport@ultraframe.co.uk

Typical reinforced and bolstered eaves beam ready to accept wide bifolding doors.

NOTE: Door frame should line up with outside of eaves beam to ensure that column claddings are not obstructed when fitted. The door is pushed against the column cladding clips and sealed down its length. Maximum frame depth of 80mm. If greater than 80mm, contact Ultraframe Technical Support Team for assistance.



Some on site finishing may be required - notching and cladding.



Area between Cornice / cill and door header frame will require cladding by the fitter on site.

PAINT FINISH AND COLOUR OPTIONS

Colour Options

Super-insulated columns and Cornice are available in two whites and these standard colours on a standard lead time (defined as the roof lead time). NOTE: Industry foiled cream RAL 9001.

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

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

RAL colour chart

The Classic Roof can also be supplied in aluminium too, for perfect integration of materials and finishes.

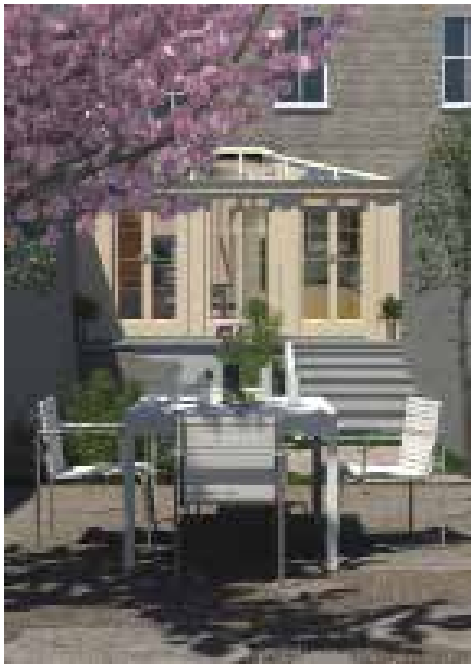
Super-insulated columns and Cornice use architectural grade powder coating for the final paint finish.

There is a standard range of colours and in addition special RAL colours can be ordered (price on application). For marine environments, a special coating can be arranged if required and this will attract an additional charge – please notify Ultraframe at quotation stage.

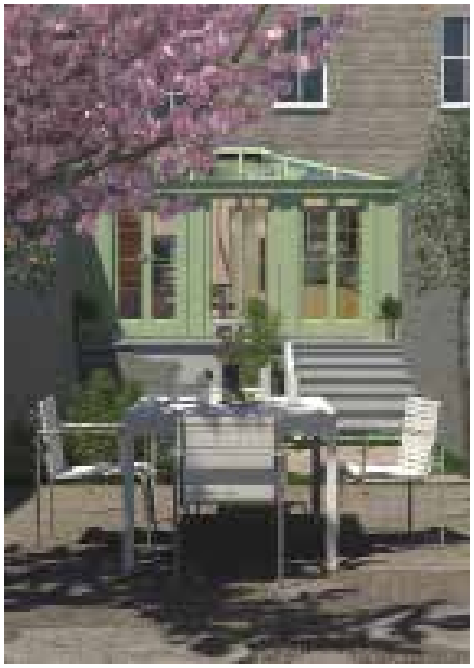
Polyester powder coatings are not maintenance free – the extent of cleaning depends upon the local environment and the attitude of the consumer/homeowner. If the consumer wants a finish like a regularly cleaned car, then clearly regular cleaning is required. Stubborn marks should be removed by using asoft cloth and a renovating cream like CIF – once dry buff. For added protection, a wax polish can be applied up to twice per year. All paints will 'chalk' to some extent and there will be a reduction in gloss level over time.

Quality expectations on installation.

- Appearance. This is assessed based on the selection of the 'significant' (primary) surface. From a distance of 3m, stand at an oblique angle of 60degree and then defects such as blisters, runs, pin holes etc should NOT be seen.
- Colour and gloss. Viewed from 5m, the coating must be of even colour and gloss with good coverage.



Standard colour Pure Cream



Standard colour Landmark/Chartwell/Sage Green

Standard colour Anthracite Grey/Urban

ORDER FORM

Super insulated columns

☐ **ORDER** e: roofsales@ultraframe.co.uk

☐ **QUOTE ENQ** e: quotes@ultraframe.co.uk

ACCOUNT No. ☐

Company Name .....

Order Number .....

JOB REFERENCE .....

Company Contact .....

Telephone No. .....

Email .....

Delivery Address .....

.....

.....

POSTCODE .....

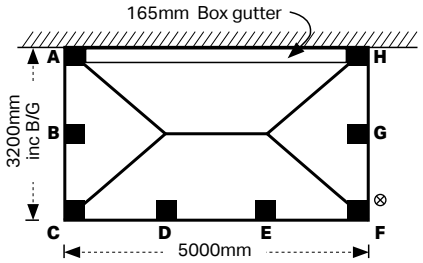
Delivery Date Req .....

Quotation Ref .....

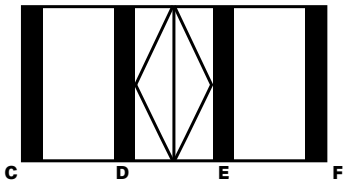
CRITICAL INFORMATION
***Required for structural snow / wind loading**

*Site Postcode .....

PLAN VIEW
example:



FRONT ELEVATION
example:



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

HOW TO PLACE AN ORDER FOR COLUMNS

1. Sketch the plan and elevations ensuring all angles are 180/90°. Mark windows, doors, host walls, outlets and column positions/ types. Please label each column with a letter.

2. Mark the positions of all super-insulated columns and letter each column so that the columns on the plan can be matched to the order form below.

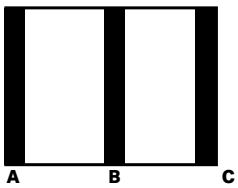
a. Ensure you clearly show host walls so we can determine column type

b. Ensure you clearly show outlets so we can provide the right drainage products.

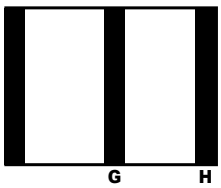
3. Answer the following questions, ensuring where required you answer for each column that you have lettered on the plan above.

4. Upon placement of your super-insulated column order, an order confirmation is generated which must be signed and sent back to Ultraframe. This order confirmation will clearly show the overall opening sizes to allow for frame size calculation.

LEFT ELEVATION
example:



RIGHT ELEVATION
example:



Job No.:3598

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

ORDER FORM

Super insulated columns

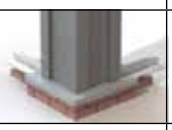
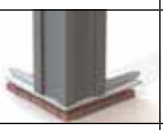
JOB REFERENCE .....

COLUMN COLOUR

Colour ☐ White ☐ Matt Grey ☐ Deeplas ☐ Chartwell green ☐ Cream ☐ RAL/BS Colour .....

COLUMN INFORMATION

See page 12 for sizes and page 18 for tips on how to measure. Remember to state height of each column from ground to eaves beam (Ensure you include the heights of frame, add ons and cills).

Column	Size		Claddings with column plinths (Full height only)	Claddings with masonry plinth cap	Claddings ONLY (to ground)	Set on cill	Style		Height (mm)
	Large	Small					Fluted 	Plain 	
A									
B									
C									
D									
E									
F									
G									
H									
I									

TOP FINISH

Beam ☐ Super duty eaves beam ☐ Standard eaves beam ☐ Quantal eaves beam .....

Roof ☐ Livinroof ☐ Ultraroof ☐ State height of cill .....

DRAINAGE

☐ Concealed outlets

☐ Extended elephants trunk

☐ Other

CILL TYPE

Top ☐ YES ☐ NO ☐ State height of cill .....

Bottom ☐ Standard (Low slope 6-10°) ☐ High slope (Slope 10-15°) ☐ State height of cill .....

CORNICE

Style ☐ 1 Tier ☐ 2 Tier ☐ 3 Tier ☐ Curved ☐ On Cill

Colour ☐ White ☐ Matt Grey ☐ Deeplas ☐ RAL/BS Colour .....

BRICK PLINTH

☐ If the doors are sank below floor level please advise. Please ensure column and door heights are consistent.

EXTRA OPTIONS

☐ Set out posts / Fixing kits	Qty:	☐ Coloured silicone to match column				Qty:	
☐ Column support straps	Qty	☐ Radiant heater panel	Black	White		Qty:	
☐ 130mm Aluminium cill	Qty:	☐ Heater controller	LHC001	LHC005		Qty:	
☐ 130mm Cill end cap L/R	Qty:	☐ Brick ties				Qty:	
☐ Box gutter adaptors	Qty:	☐ Brickwork setout post				Qty:	
☐ Concealed downpipe kit	Qty:						

Job No.:3598

Please sign and return to
sales@premierframes.co.uk

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

www.ultraframetrade.co.uk

Ultraframe®

Job No.3688 LGG002 v7 09/2018