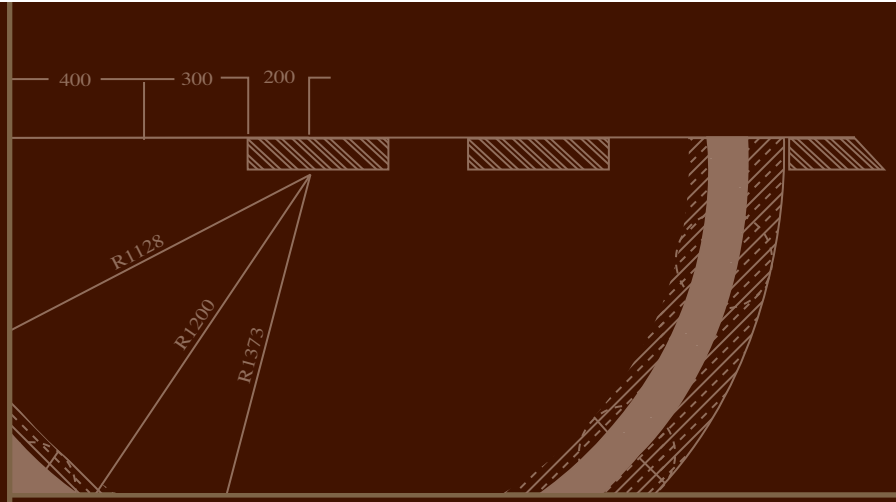
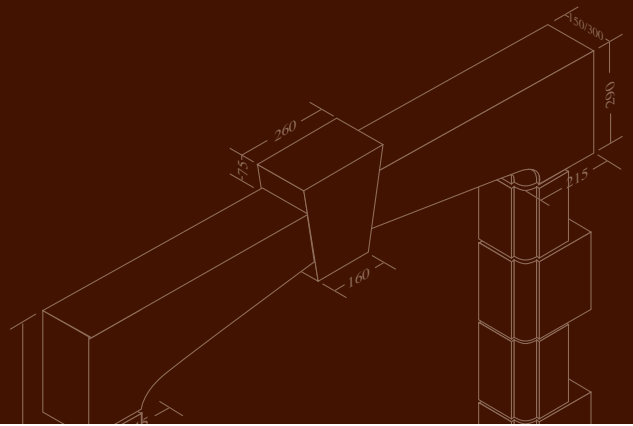


C1/SfB
Ff3

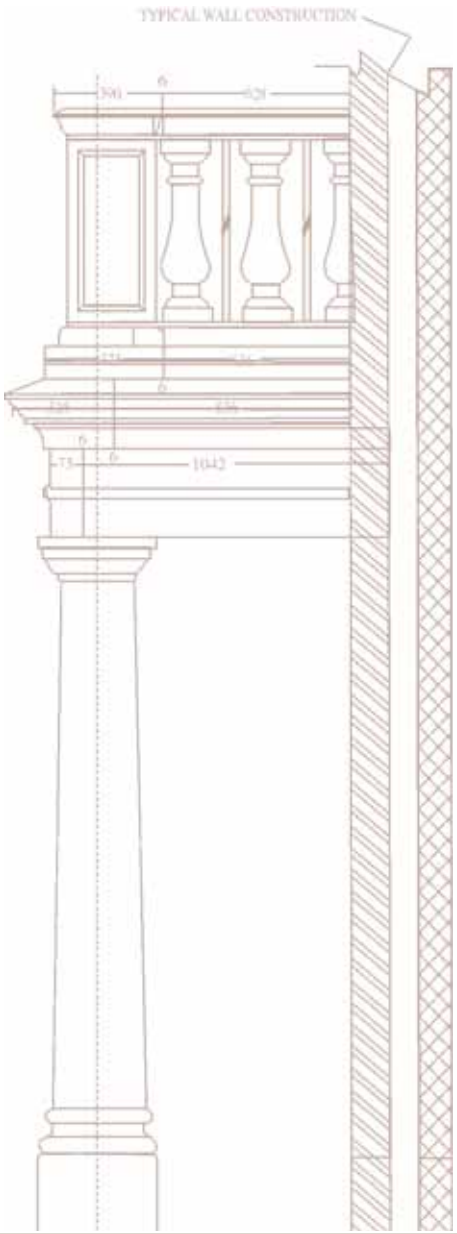
January 2008

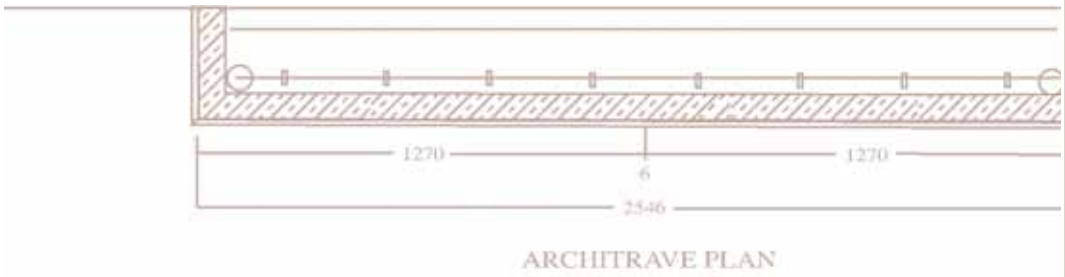
Inspirational Stonework

ARCHITECTURAL CAST STONE DRESSINGS



ELEGANT STONE



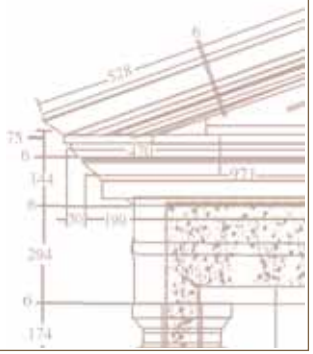


ARCHITRAVE PLAN

Contents

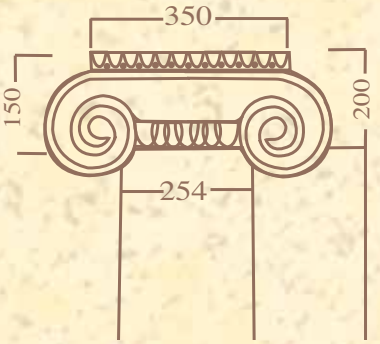






Reconstructed Stone

Introduction



The history of cast stone spans several centuries and is not a relatively new or unproven material as is often assumed.

In Britain, cast stone has been used since the 18th century and remaining examples clearly demonstrate the durability and long term weathering characteristics of the material.

Then, as now, the primary reason for choosing cast stone as opposed to the indigenous natural stone is one of cost and availability.

The carving of natural stone has always been expensive and time consuming and as such its usage in modern times is often restricted due to prohibitive costs and unacceptable lead times.

Cast or reconstructed stone enables the architect or specifier to incorporate stonework detailing or dressings as desired to give added charm, individuality and character whilst keeping costs to an acceptable and realistic level.

Using a combination of age old and modern manufacturing methods, Elegant Stone reproduce the timeless beauty of natural stone.

From individual houses to large residential and commercial projects, Elegant Stone is the cost effective alternative to natural stone, having a tight grain ashlar appearance and is available in a range of six subtle shades to enhance any proposed development.

"Elegant Stone reproduce the timeless beauty of natural stone"

With great emphasis on quality and service, only the finest aggregates and materials are used in manufacture. Rigorous daily quality control procedures are strictly adhered to with regular independent testing also undertaken as required.

"Only the finest aggregates and materials are used"

From a standard head, cill or water feature to intricate bespoke and restoration work, Elegant Stone have the experience and capability to take on board the most demanding and elaborate of assignments, thereby allowing Elegant Stone to be specified with absolute confidence.

Technical advice and assistance is available where required with the production of fully detailed and dimensioned AutoCAD drawings, which are forwarded for customer approval prior to manufacture. All orders are subsequently confirmed in writing and include a traceable production number, which ensures enquiries can be dealt with quickly and efficiently.

Standard Component

Both costs and lead times are kept to a minimum by incorporating components from our standard range of cast stone dressings. Literally thousands of moulds are kept in stock at all times which allow the customer to be creative and imaginative whilst working within a budget.

> **"Elegant Stone have both the resources and skilled craftsmen"**

The standard range of components has been evolved in conjunction with house builders and developers and sizes available reflect industry standard door and window openings.

Select from an extensive range, which includes heads, cills, window and door surrounds, ashlar walling, quoins, corbels, copings and pier caps, all of which will add character and charm to any property. Components range in style from basic to elaborate and decorative and are hand finished in any of our six standard colours.

Ordering is easy using the identifying code on the relevant technical page together with the colour and quantity required.

Bespoke

Continual investment and development in both traditional and the latest mould making techniques have resulted in one of the best equipped and most comprehensive pattern making facilities in the industry.

However simple or complex in design, Elegant Stone have both the resources and skilled craftsmen available in-house to bring concepts and ideas to reality. From conception to completion Elegant Stone are leaders in the field of bespoke and non-standard cast stone masonry.

From a feature head or arch to replicating ornate cornices and entablatures, Elegant Stone relish the opportunity to demonstrate our specialist skills and take great pride in producing custom made stonework to customer's individual requirements.

Frequently called upon for our expertise in this specialist and bespoke area of the cast stone market, Elegant Stone service includes, resin, GRP and rubber moulding from original components for reproduction contracts. Carving and commissioning of special designs and architectural features are also undertaken with customers and clients being closely involved throughout.

Ornamental

The Elegant Stone range of ornamental stonework, features an exciting and innovative portfolio of traditional and unique architect designed garden and landscape statuary.

From water features and fountains, to balustrading, elegant jardiniéres, planters and exquisite classical temples, each piece is lovingly hand crafted to adorn any proposed setting.

> **"Elegant Stone also welcome individual commissions and reproductive work"**

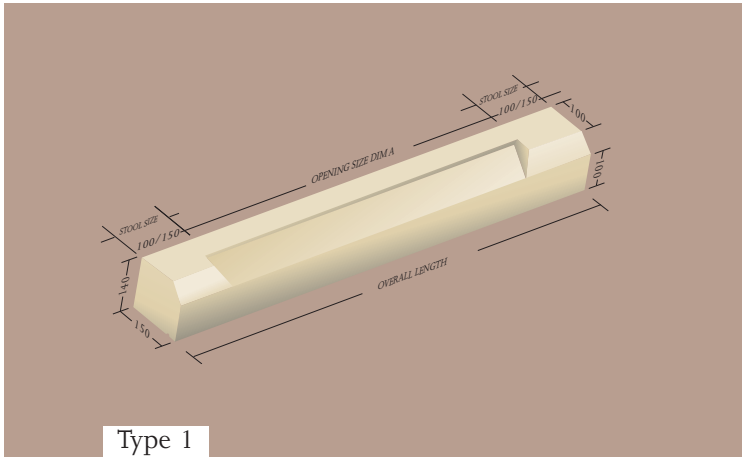
Utilising the many skills of our specialist teams of pattern and mould makers, Elegant Stone also welcome individual commissions and reproduction work.

Standard Components

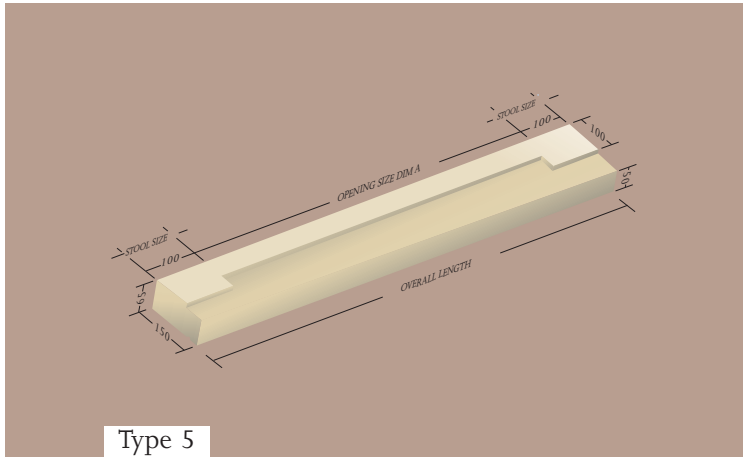
Bespoke

Ornamental

Cills



Type 1



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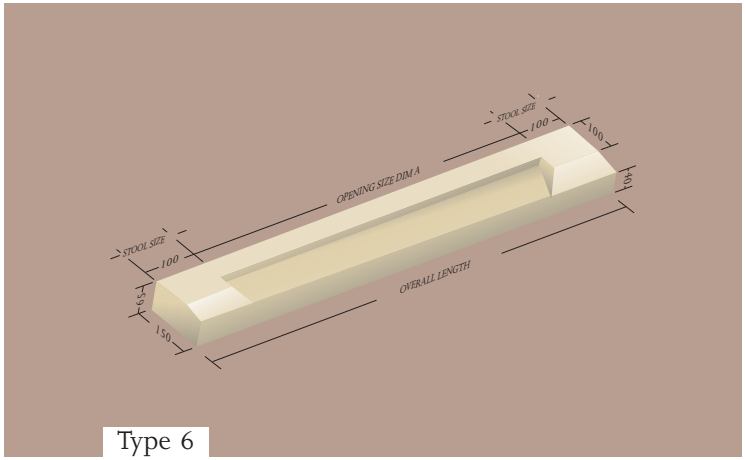

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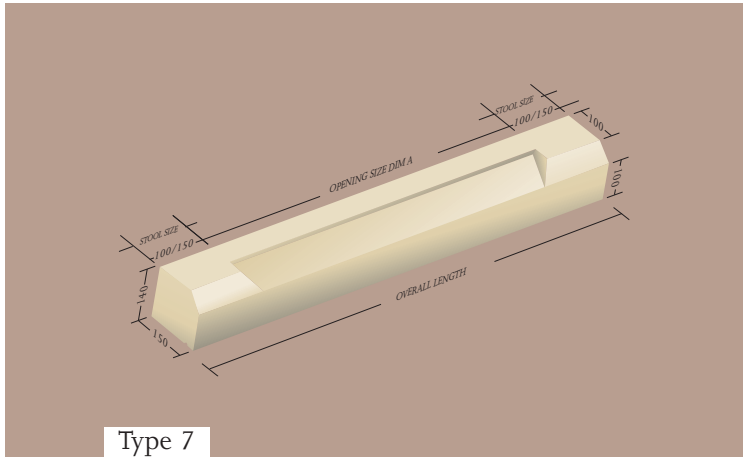

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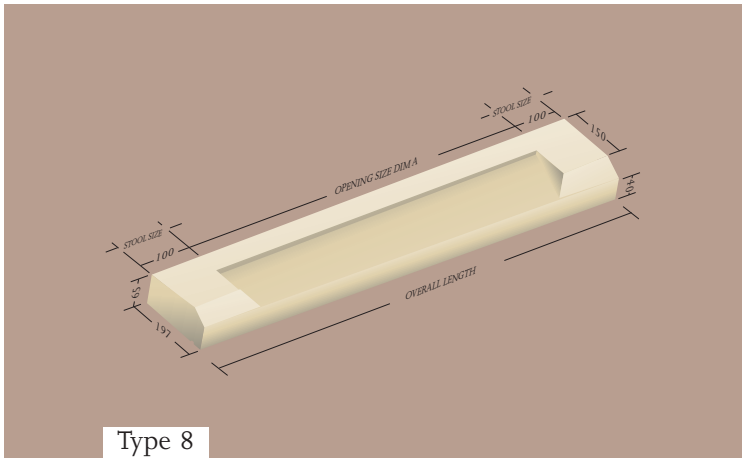
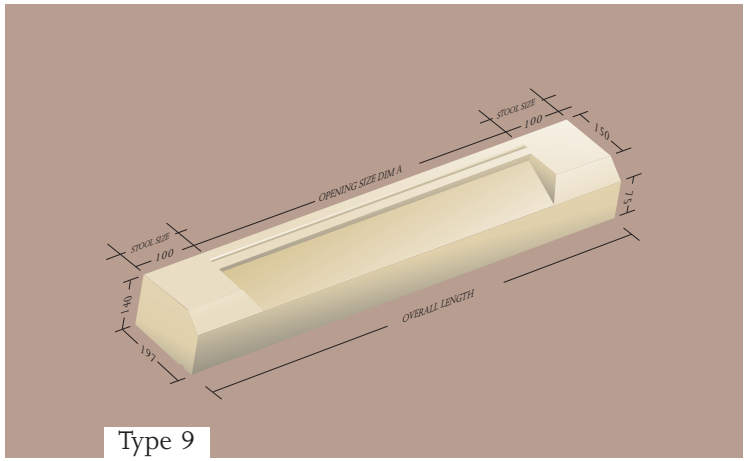
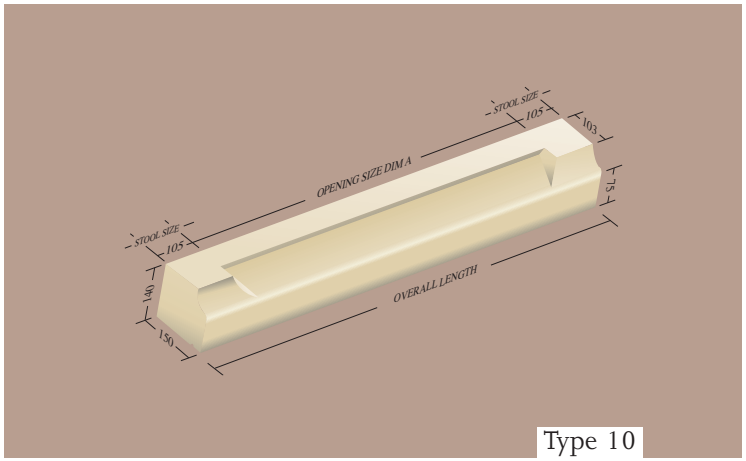


Type 8

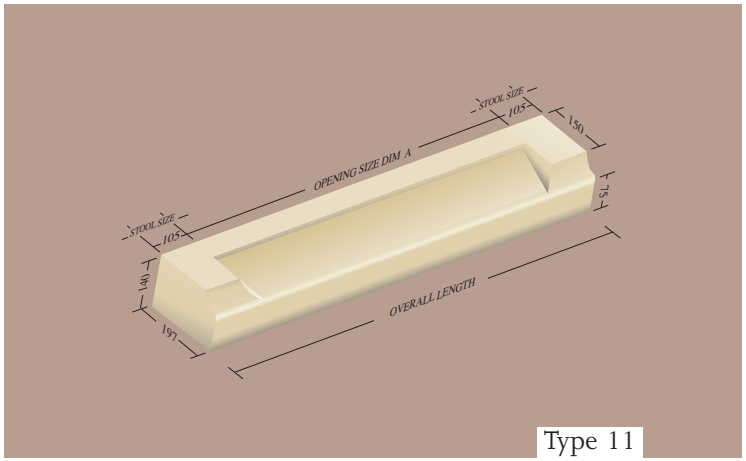


Type 9

Order code Cill (Type) – (DIM A)
Opening sizes available
DIM A = (488, 630, 915, 1200, 1770)
All lengths over 1500 to be split at 140mm high section
All lengths over 890 to be split at 65mm high section
Non-standard lengths made to order
Weather Bar Groove available if required at extra cost
Refer to BS8000



Type 10



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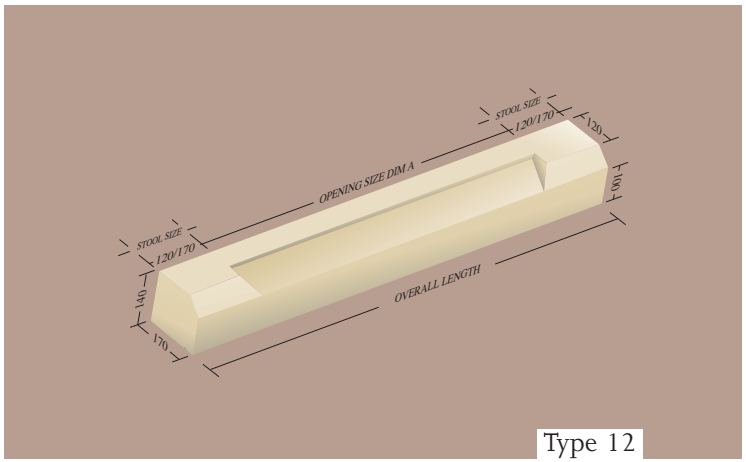

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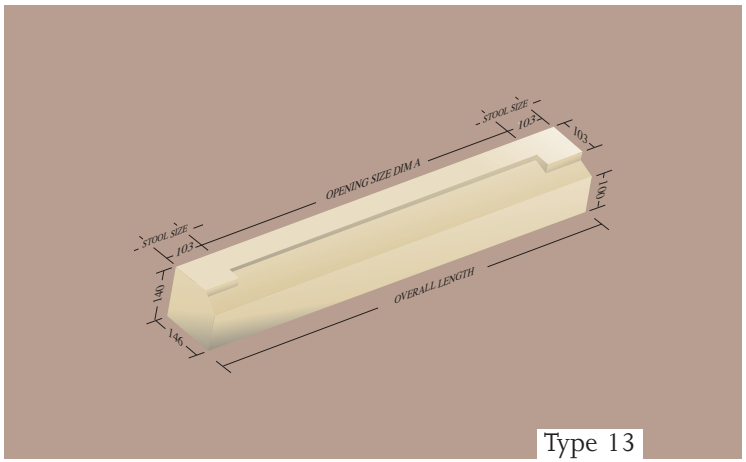
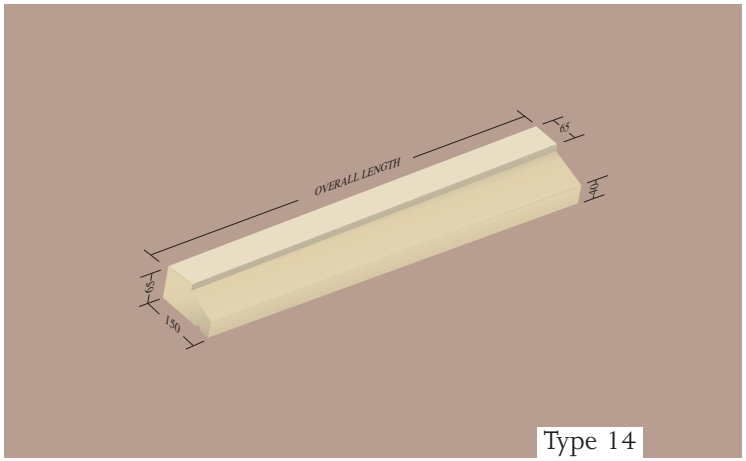


Type 13



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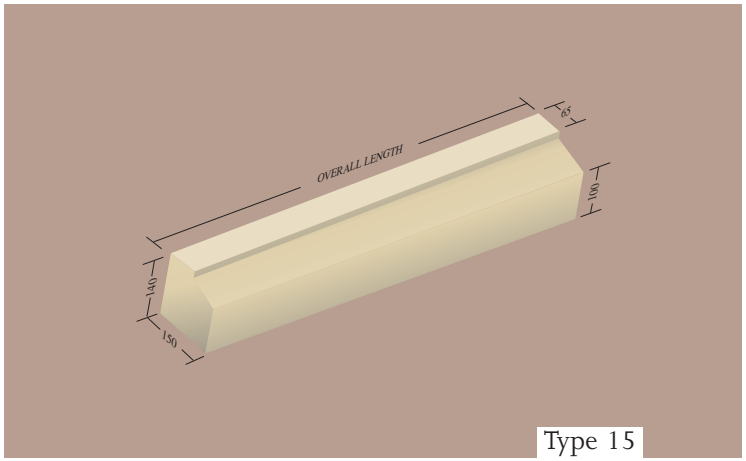


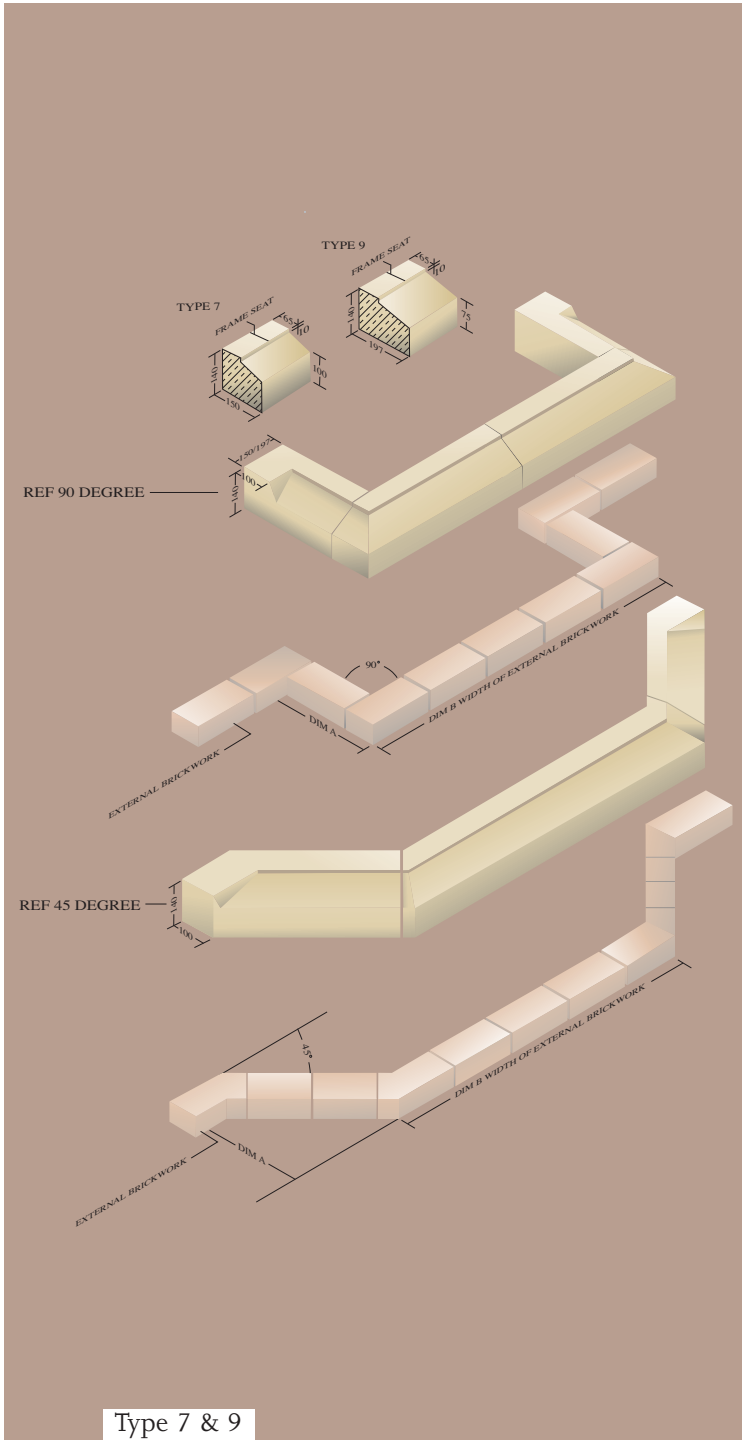
Type 15

Cills

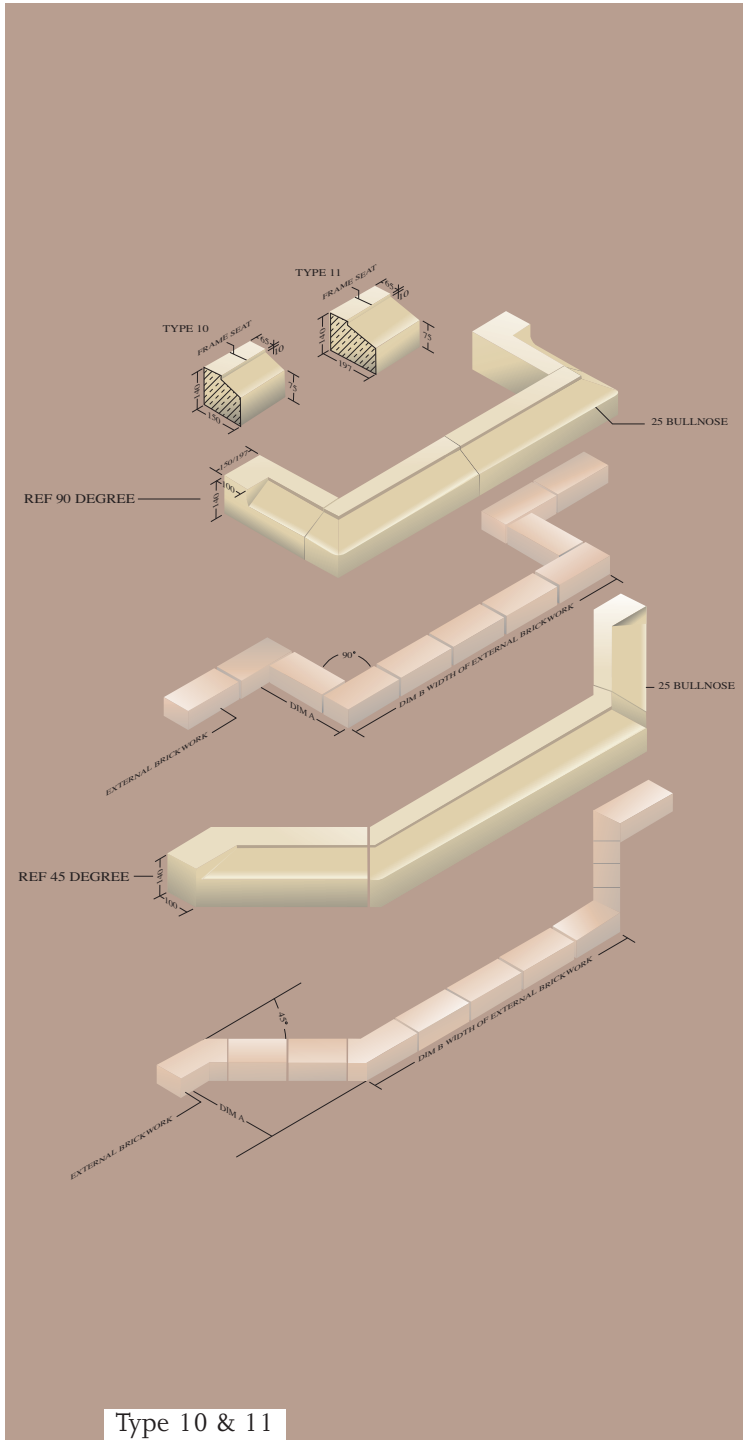
Order code Cill (Type) – (DIM A)
Opening sizes available
DIM A = (488, 630, 915, 1200, 1770)
All lengths over 1500 to be split at 140mm high section
All lengths over 890 to be split at 65mm high section
Non-standard lengths made to order
Weather Bar Groove available if required at extra cost
Refer to BS8000

Bay Windows and Bullnosed Cills

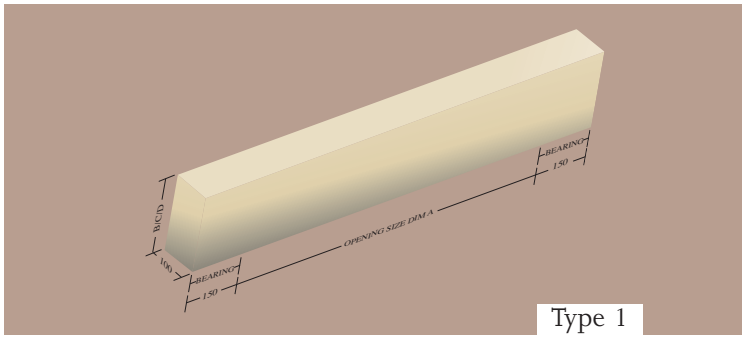
Order code (Type), (Ref) – (DIM A, DIM B)



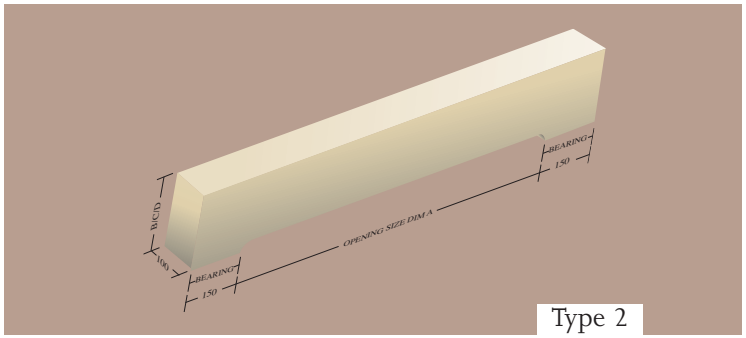
Type 7 & 9



Type 10 & 11



Type 1



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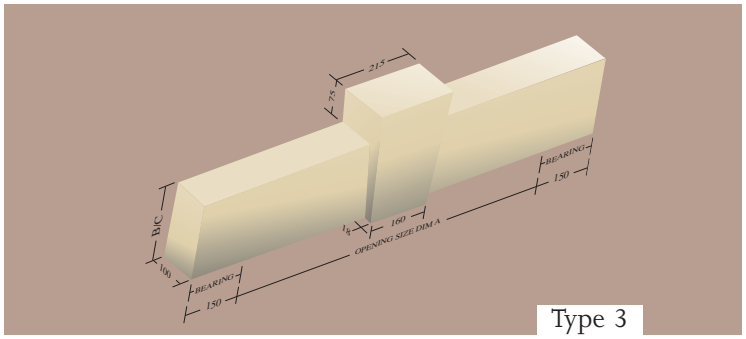

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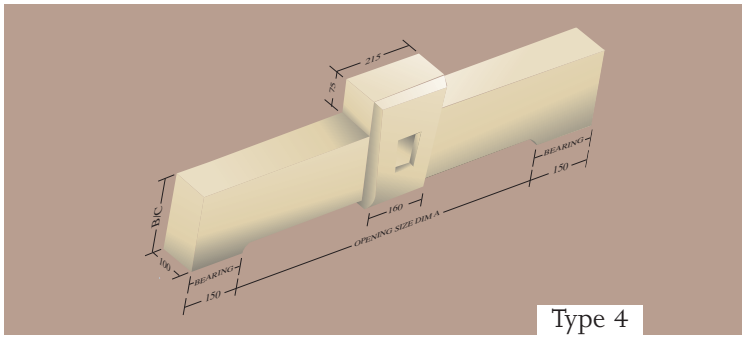
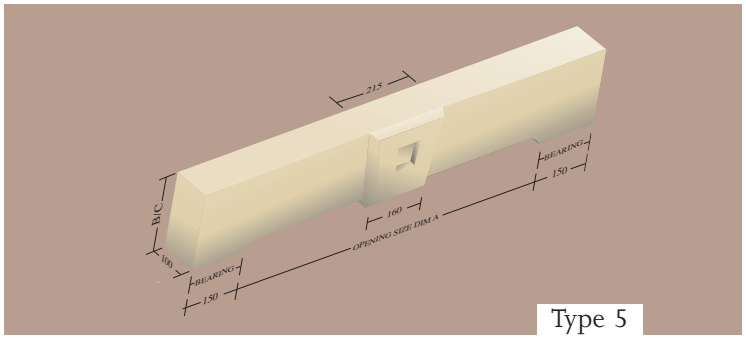


Type 4



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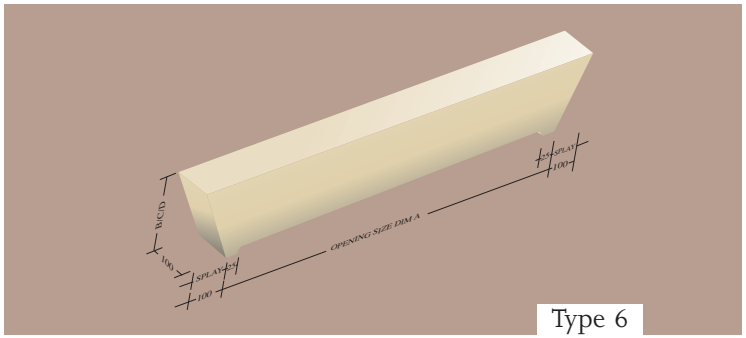

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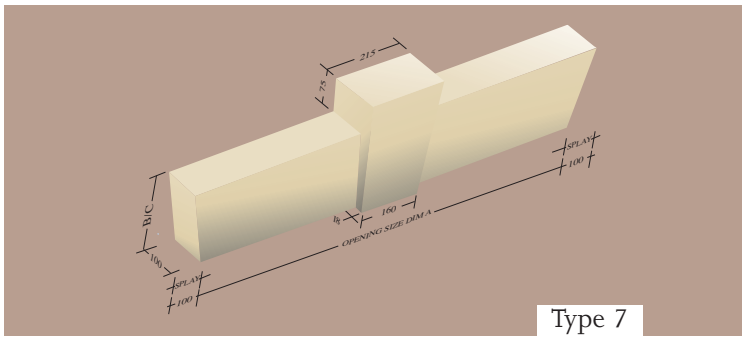
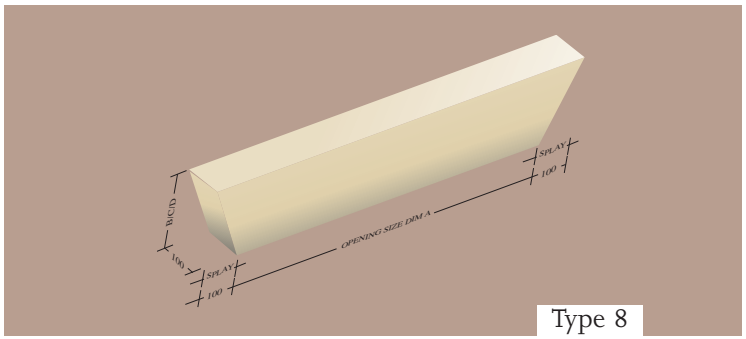


Type 7



Type 8

Heads

Order code Head (Type), (Height) – (DIM A)

Opening sizes available

DIM A = (488, 630, 915, 1200, 1770)

Non standard lengths made to order

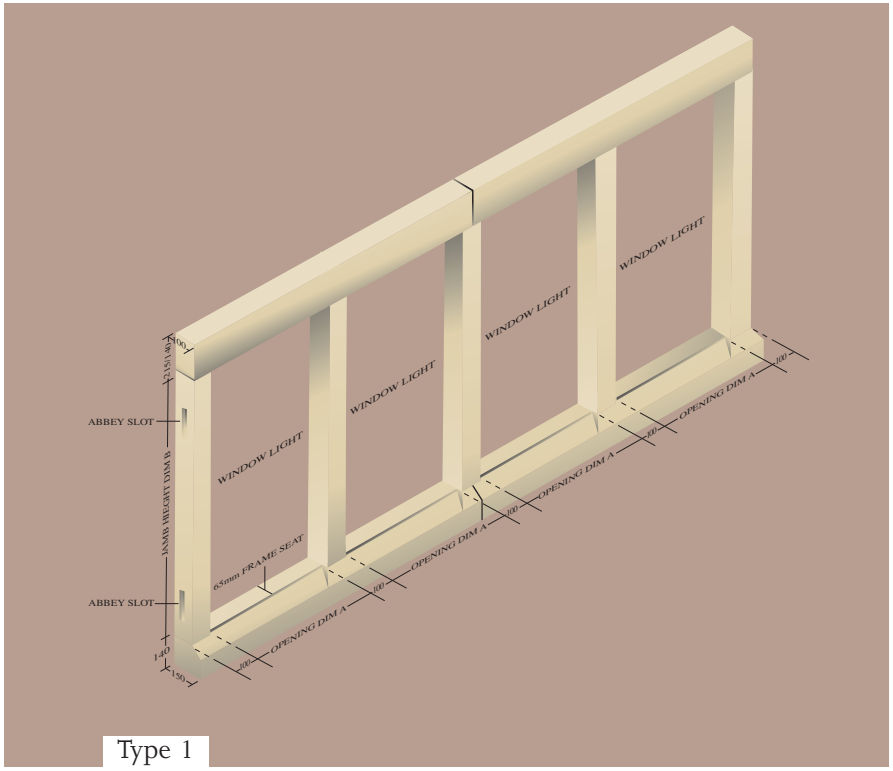
All heads are non load bearing and require steel lintel support

DIM B = 140

DIM C = 215

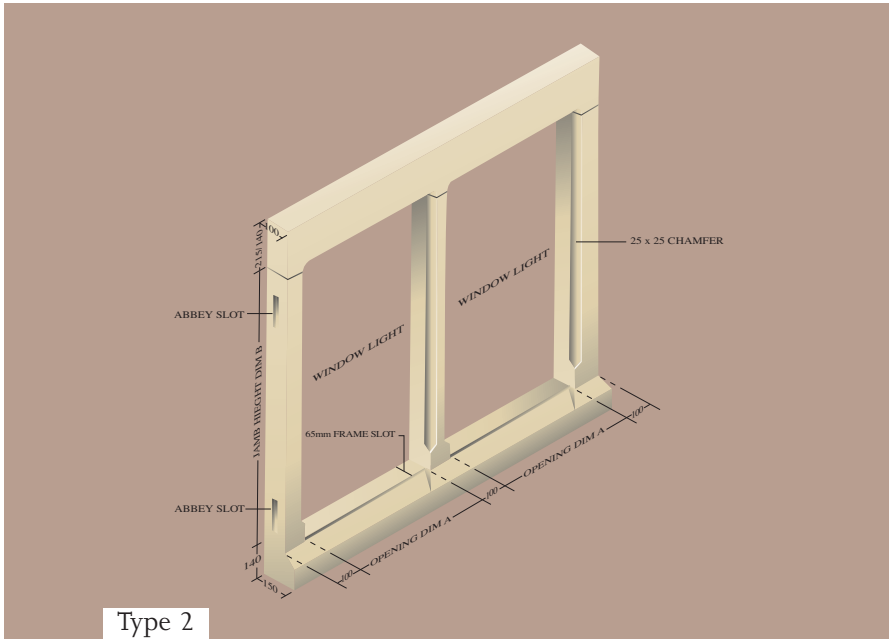
DIM D = 290

Window surround



Type 1

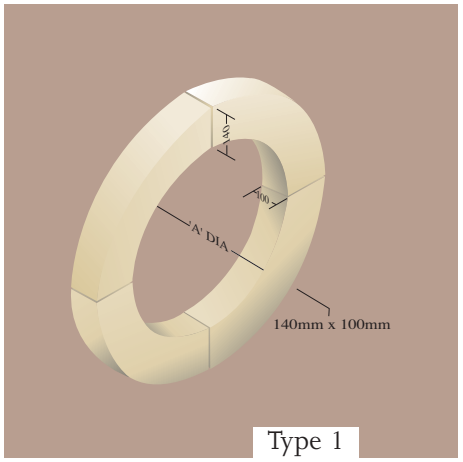
Window Surround Type 1
Order code:WS1 – (light) @ (DIM A), (DIM B)
Opening sizes available
DIM A = (488, 630, 915, 1200, 1770)
Order code eg. WS1 – 2 Light @ 488 opening, 1350 high
Non standard lengths made to order
All heads are non load bearing



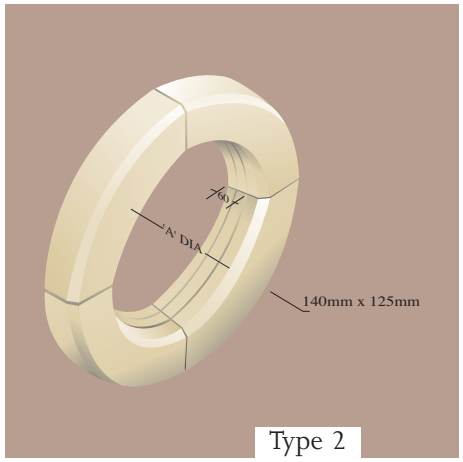
Type 2

Window Surround Type 2
Order code:WS2 – (light) @ (DIM A), (DIM B)
Opening sizes available
DIM A = (488, 630, 915, 1200, 1770)
Order code eg. WS2 – 4 Light @ 488 opening, 1350 high
Non standard lengths made to order
All heads are non load bearing

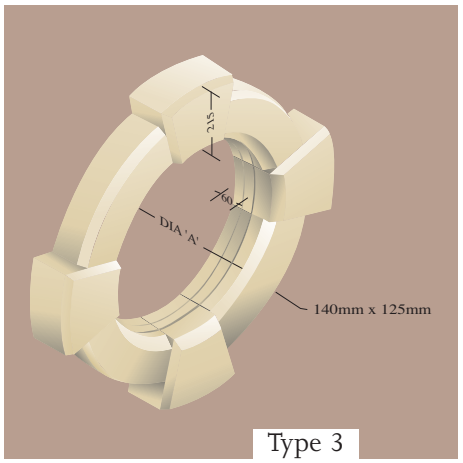
Notes:
1 All heads reinforced with high tensile steel bars.
2 All surrounds incorporate abbey slots & dowel holes.
3 Fish tail ties and dowels supplied at extra cost.
4 Heads and cills with 4 lights made in four.



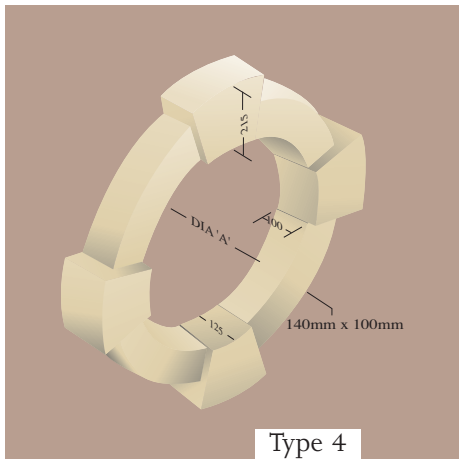
Type 1



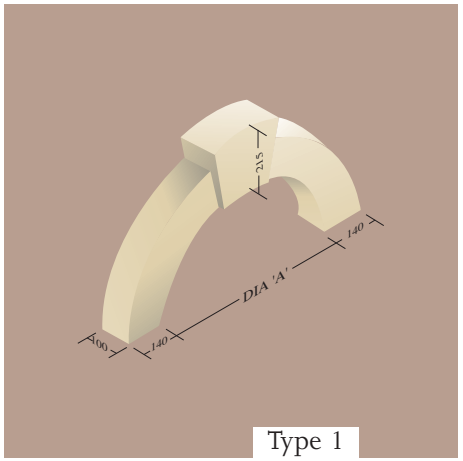
Type 2



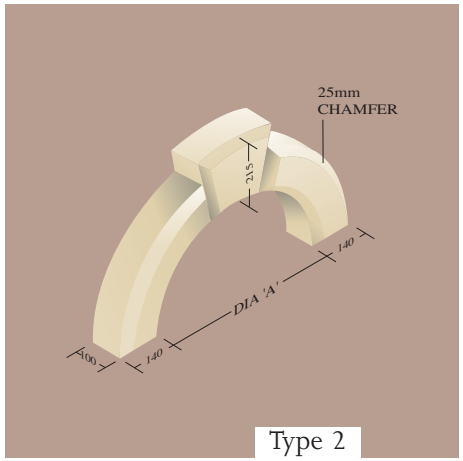
Type 3



Type 4



Type 1



Type 2

Circular Bullseye Type 1
Order code CBE 1 – (DIM A)
Order code eg. CBE1-610 Internal diameter
Standard internal diameter sizes available
DIM A = (610, 915, 1200)

Circular Bullseye Type 2
Order code: CBE 2 – (DIM A)
Order code eg. CBE2-610 Internal diameter
Standard internal diameter sizes available
DIM A = (610, 915)

Circular Bullseye Type 3
Order code: CBE3 – (DIM A)
Order code eg. CBE3-610 Internal diameter
Standard internal diameter sizes available
DIM A = (610, 915)

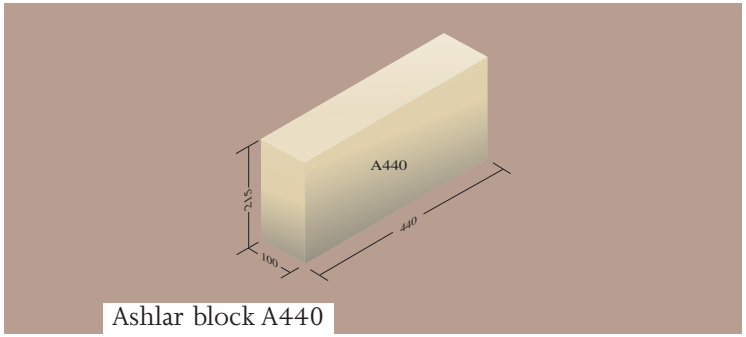
Circular Bullseye Type 4
Order code: CBE4 – (DIM A)
Order code eg. CBE4-610 Internal diameter
Standard internal diameter sizes available
DIM A = (610, 915)

Plain Semi-circular Keystone Arch Type 1
Order code: PSCA – (DIM A)
Order code eg. PSCA-610 Internal diameter
Standard internal diameter sizes available
DIM A = (610, 915, 1200)

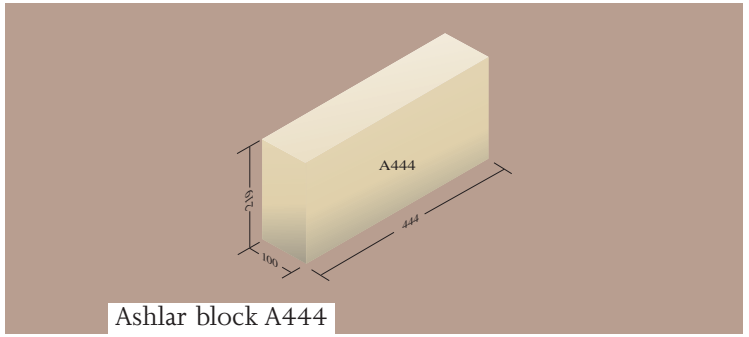
Chamfered Semi-circular Keystone Arch Type 2
Order code: CSCA – (DIM A)
Order code eg. CSCA-610 Internal diameter
Standard internal diameter sizes available
DIM A = (610, 915, 1200)

Circular Bullseye Surrounds and Semi Circular Arches

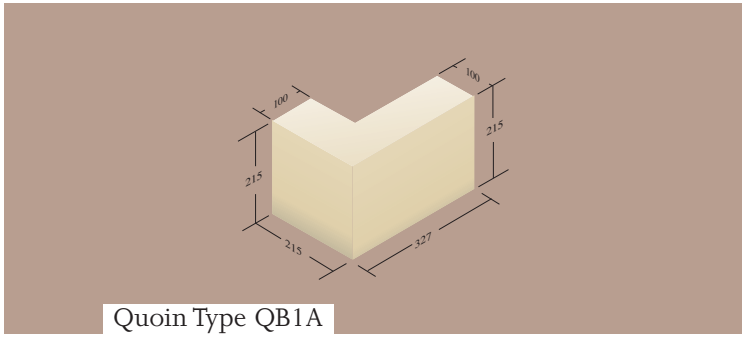
Ashlar, Gable Vents and Quoins



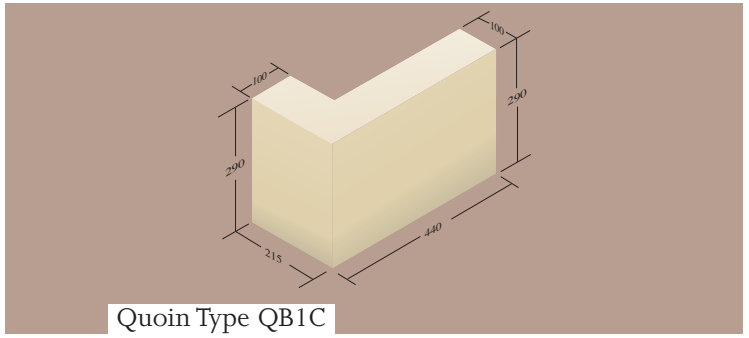
Ashlar block A440



Ashlar block A444



Quoin Type QB1A



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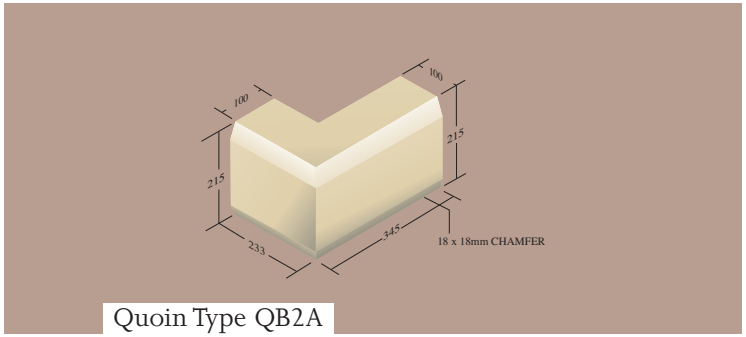
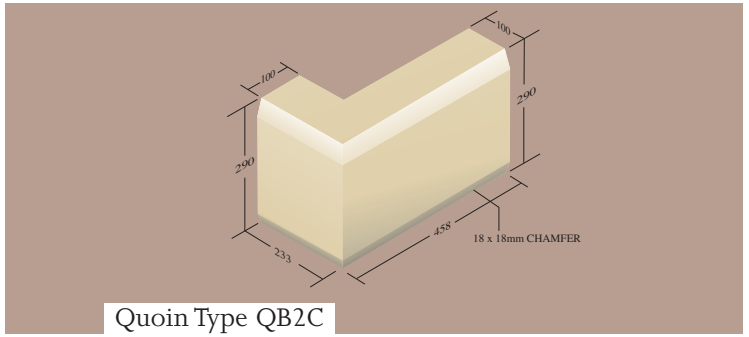
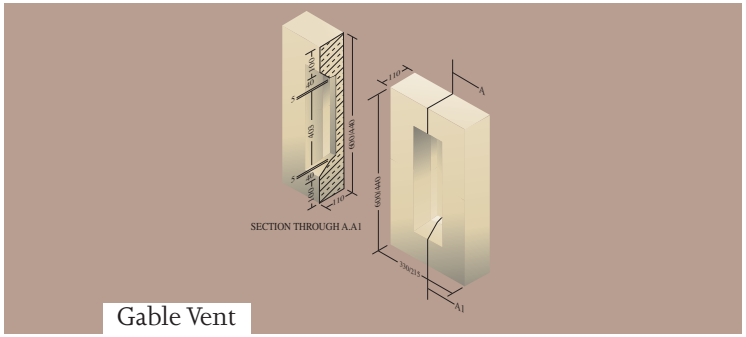


Quoin Type QB2A



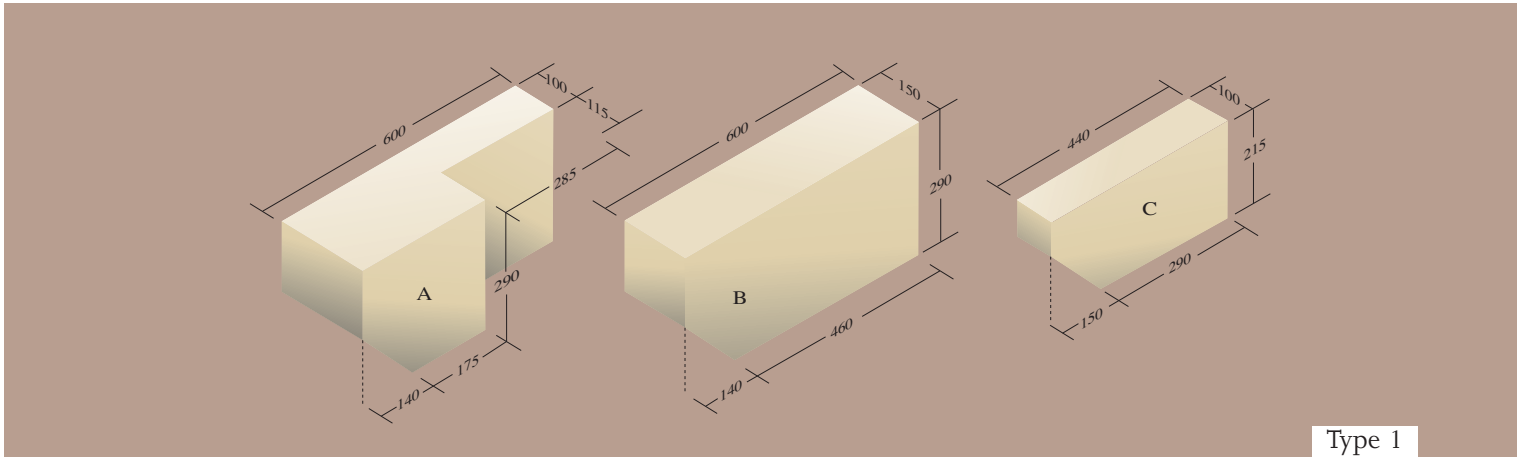
Quoin Type QB2C



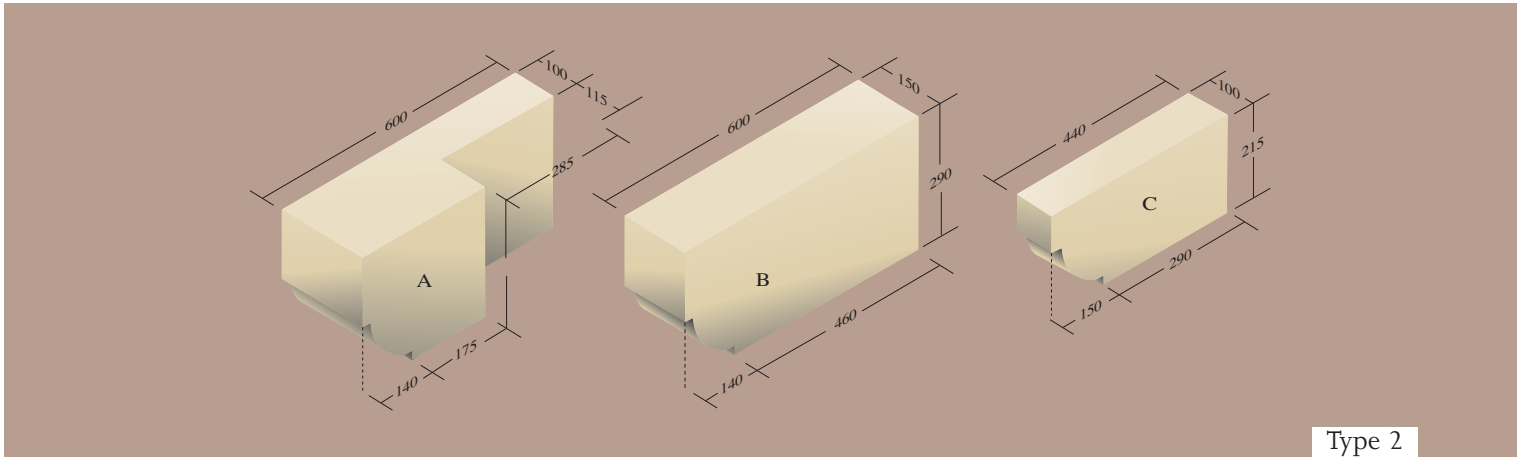
Gable Vent

Ashlar Blocks
Order code A440/A444

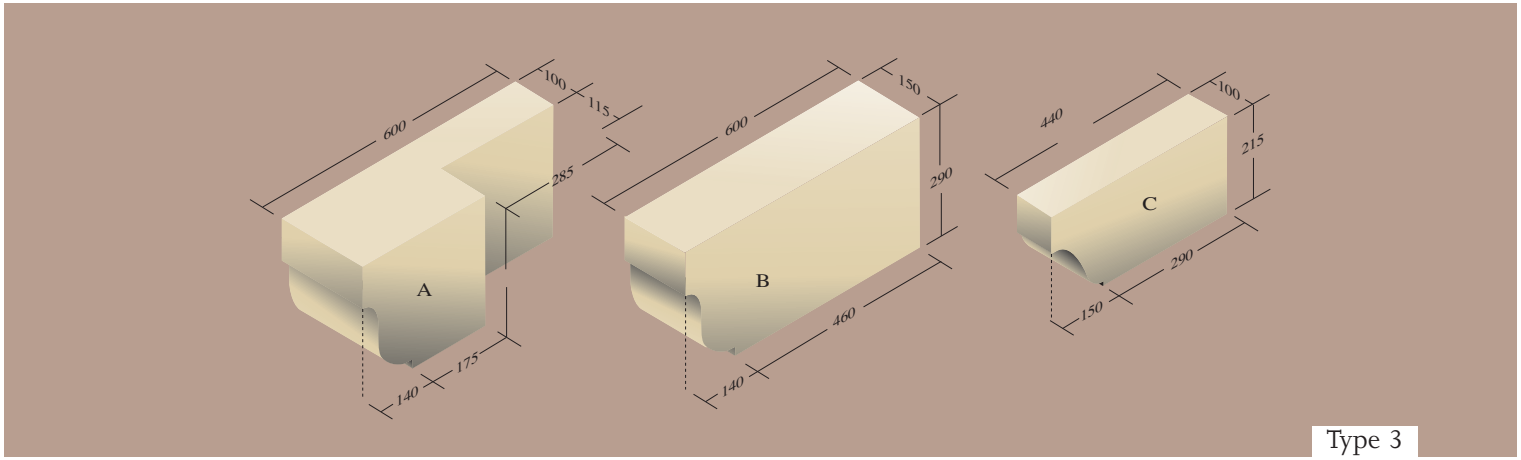
Gable Vent
Order code GV-215 x 440-FB
Available in standard sizes
Width x Height 215 x 440, 330 x 600
FB = False back
TS = Through slots



Type 1



Type 2

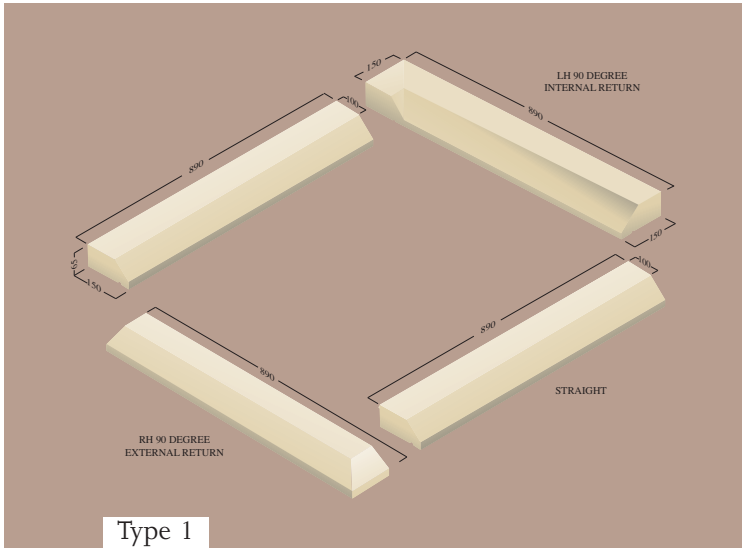


Type 3

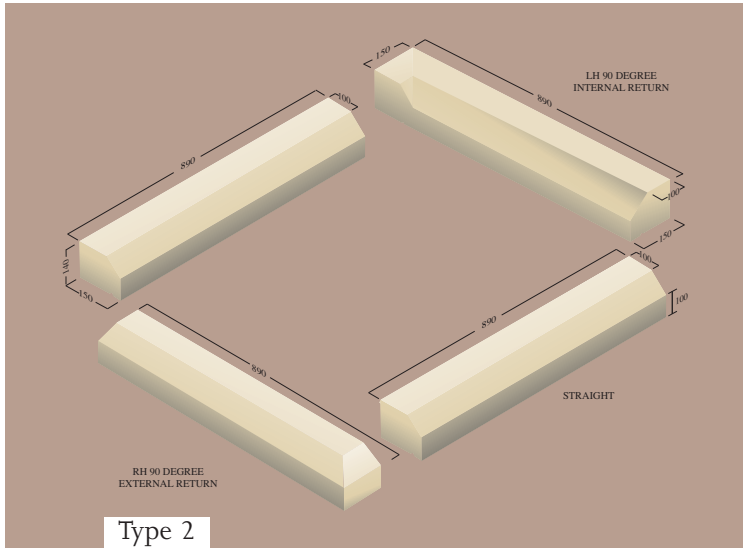
Corbels

Order code COR (Type), (Ref)
Order code eg. COR-1A

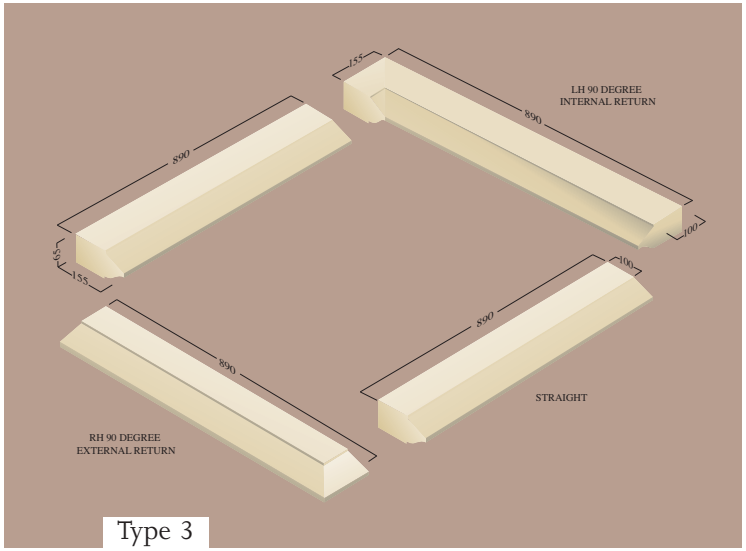
String Course



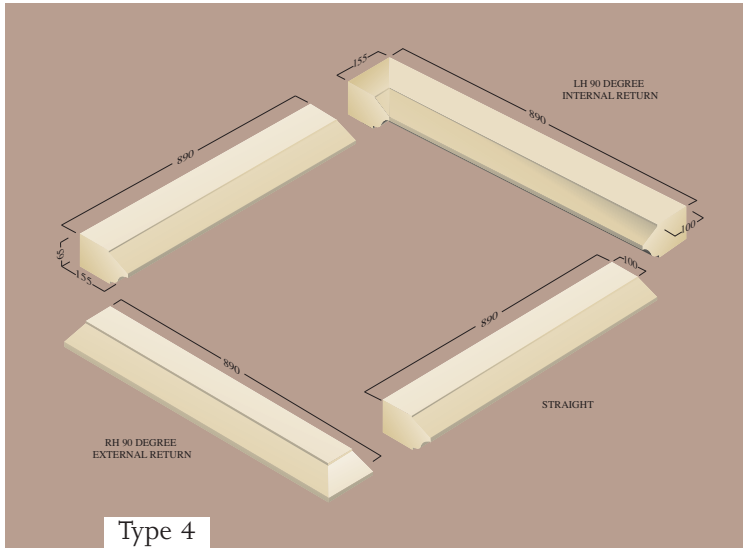
Type 1



Type 2



Type 3



Type 4

String Course Type 1

Order code SC1-(length) – (LH/RH, angle, external/internal)

Order code eg. SC1-600 long – LH 90 degree external return

Standard length is 600mm

Non standard lengths made to order

String Course Type 2

Order code SC2-(length) – (LH/RH, angle, external/internal)

Order code eg. SC2-890 long – LH 90 degree external return

Standard length is 890mm

Non standard lengths made to order

String Course Type 3

Order code SC3 (ref)-(length) – (LH/RH, angle, external/internal)

Order code eg. SC3-600 long – LH 90 degree external return

Standard length is 600mm

Sizes less than 600mm made to order

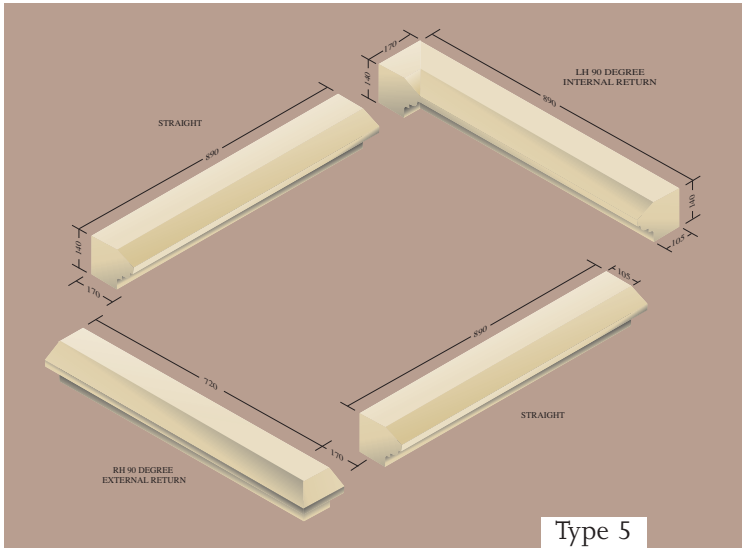
String Course Type 4

Order code SC4 (ref)-(length) – (LH/RH, angle, external/internal)

Order code eg. SC4-890 long – LH 90 degree external return

Standard length is 890mm

Sizes less than 890mm made to order



Type 5

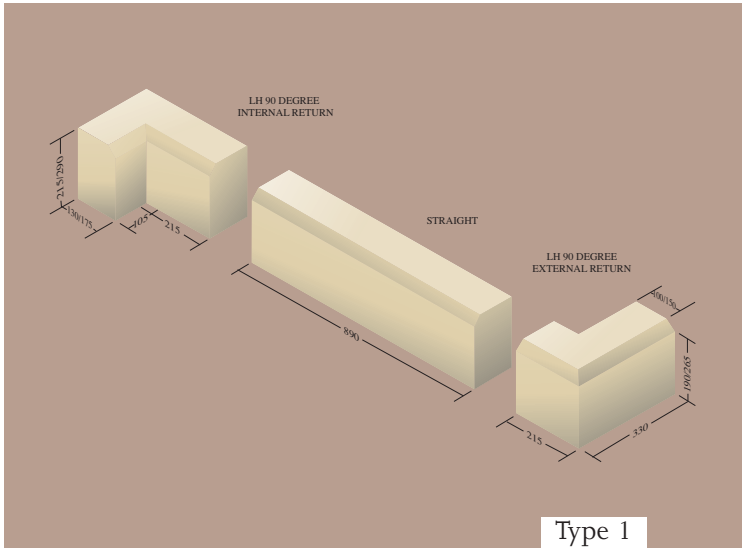
String course Type 5

Order code SC5 (ref)-(length) – (LH/RH, angle, external/internal)

Order code eg SC5-890 long – LH 90 degree external return

Standard length is 890mm

Sizes less than 890mm are available



Type 1

Plinth Block

Type 1A – 215 x 130mm

Type 1B – 290 x 130mm

Type 1C – 215 x 175mm

Type 1D – 290 x 175mm

Order code PB1 (ref)-(length) – (LH/RH, angle, external/internal)

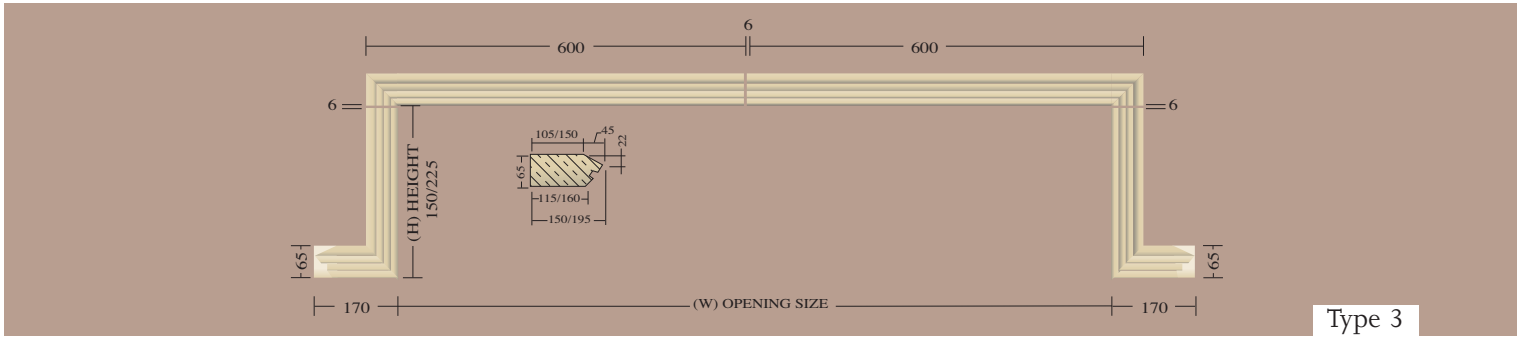
Order code eg. PB1A-890 long – LH 90 degree external return

Standard length is 890mm

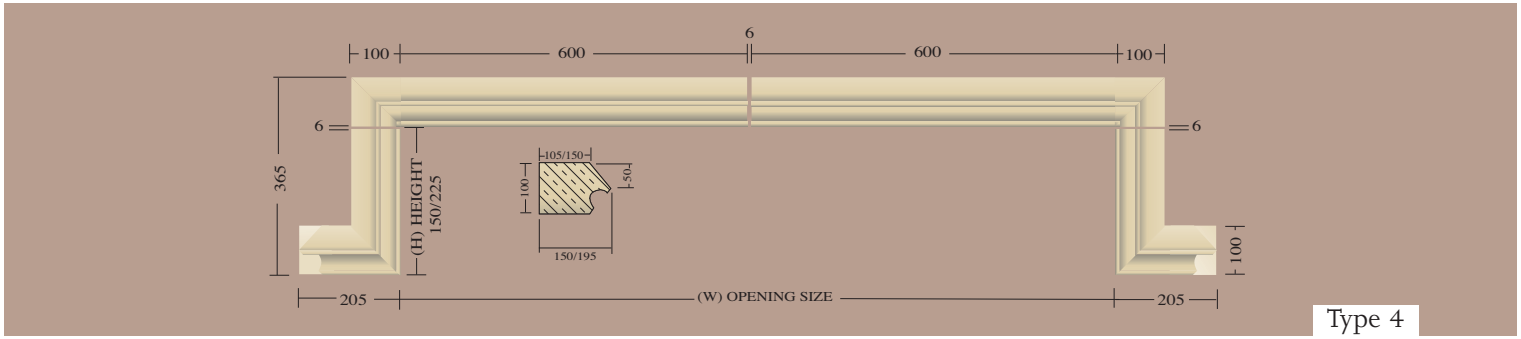
Non standard lengths made to order

String Course and Plinth Block

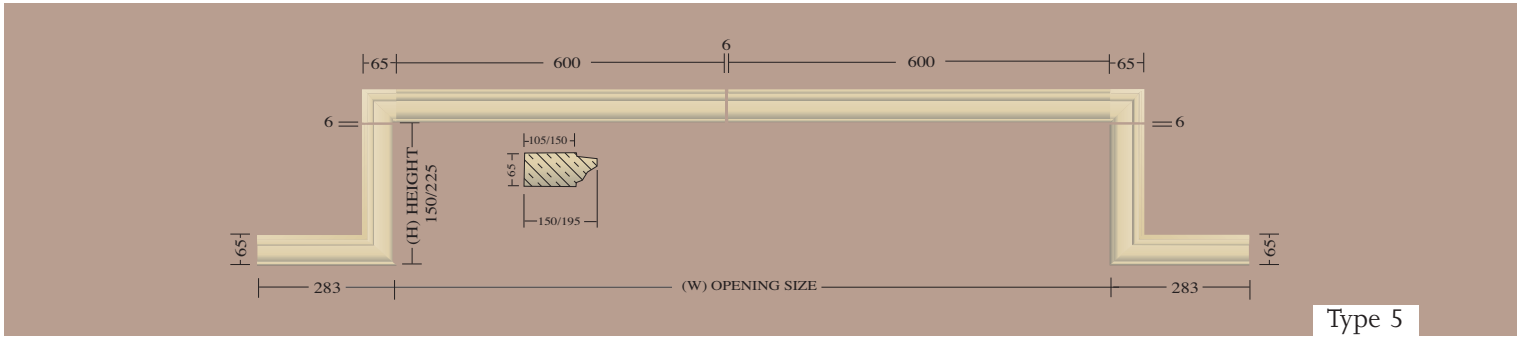
Label Moulding



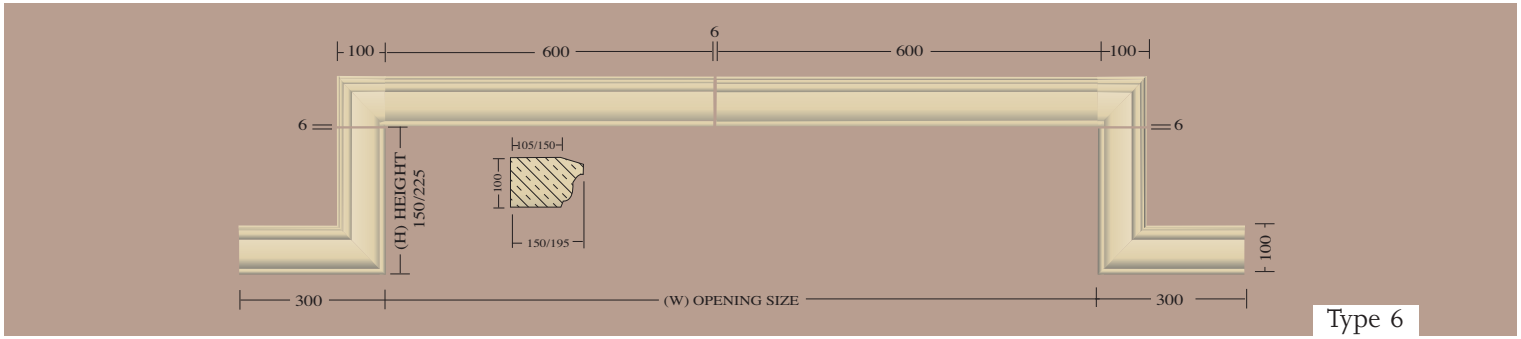
Type 3



Type 4

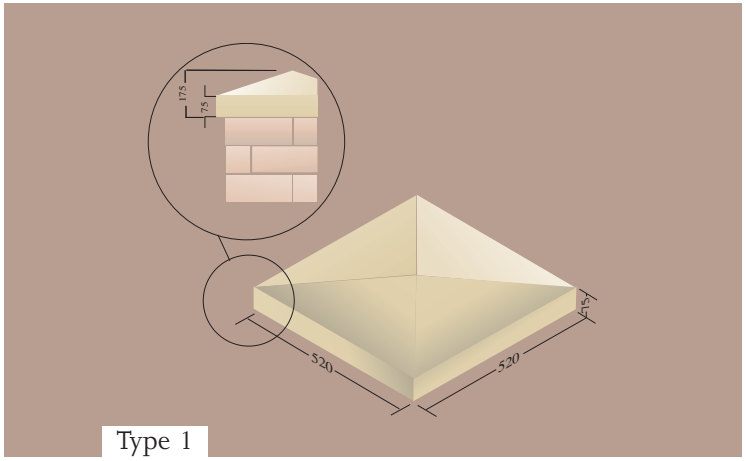


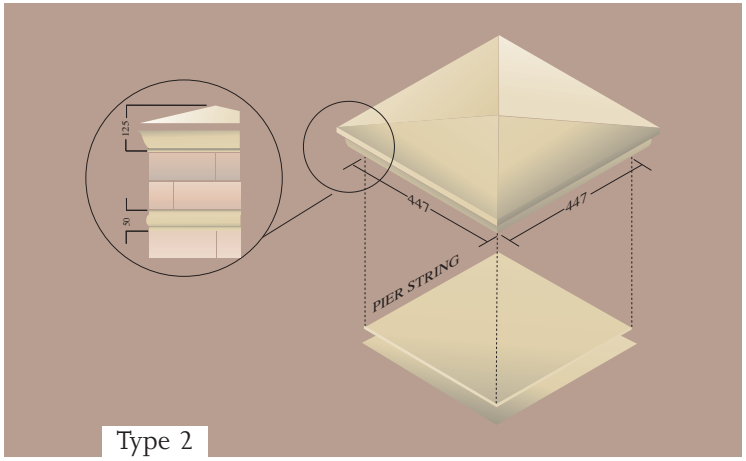
Type 5

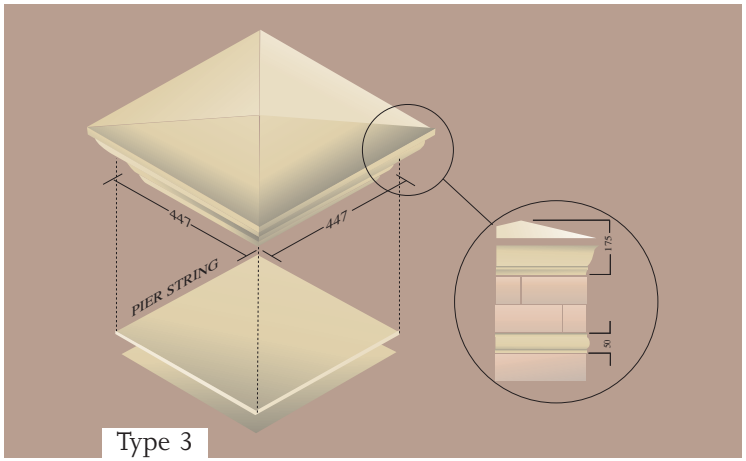


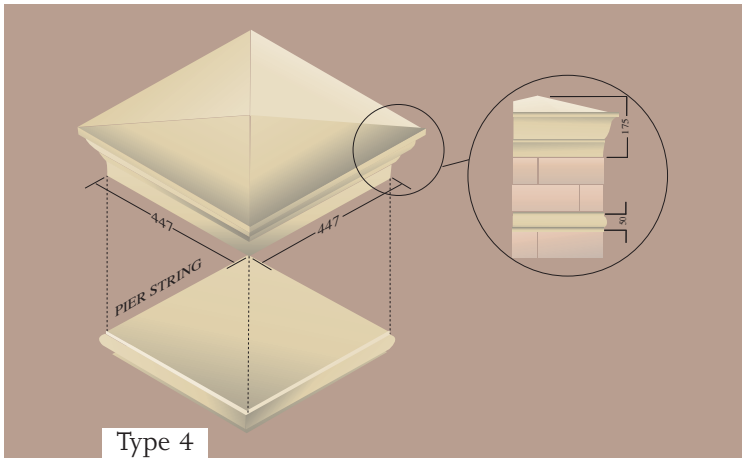
Type 6

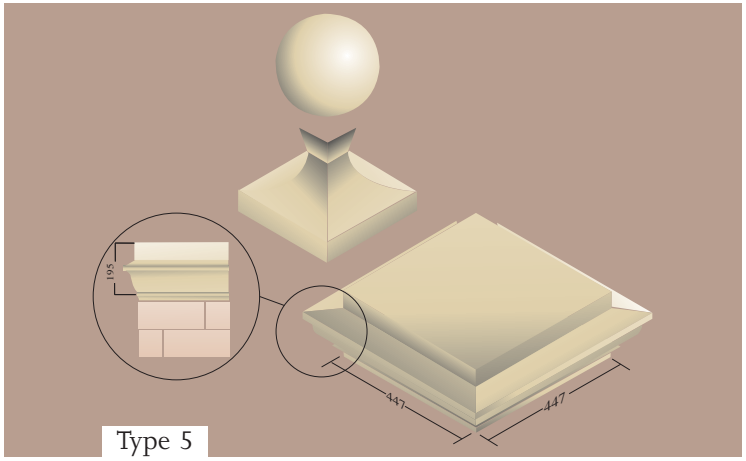
A = 150mm
B = 195 mm
Order code LM (Type), (Ref) (W), (H)
Order code eg. LM-3A (W) 630 – (H) 150
Standard lengths supplied at 600mm
Non standard lengths made to order

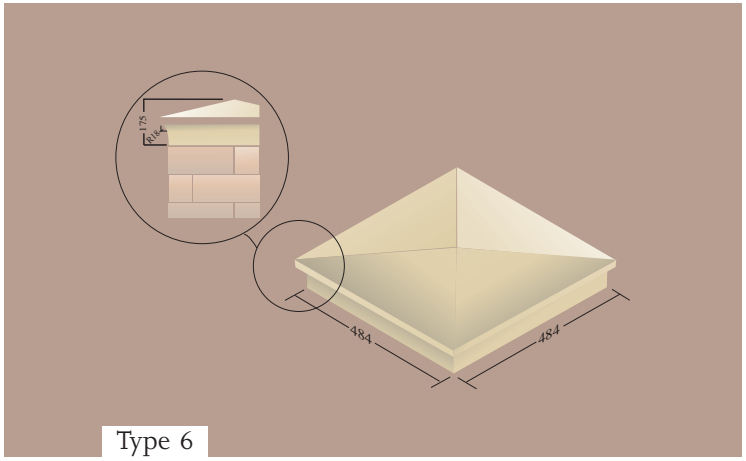












Pier Cap

Pier Cap Type 1
A = 410mm Base
B = 520mm Base
C = 635mm Base
D = 745mm Base

Pier Cap Types 2, 3, 4 & 5
A = 337mm Base
B = 447mm Base
C = 562mm Base
D = 672mm Base

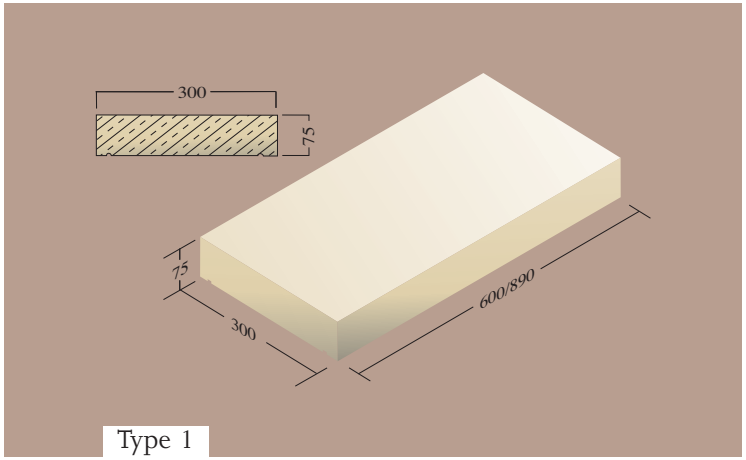
Pier Cap Type 6
A = 374mm Base
B = 484mm Base
C = 599mm Base
D = 709mm Base

Order code PC (Type)-(Base Size)
Order code eg. PC-2B

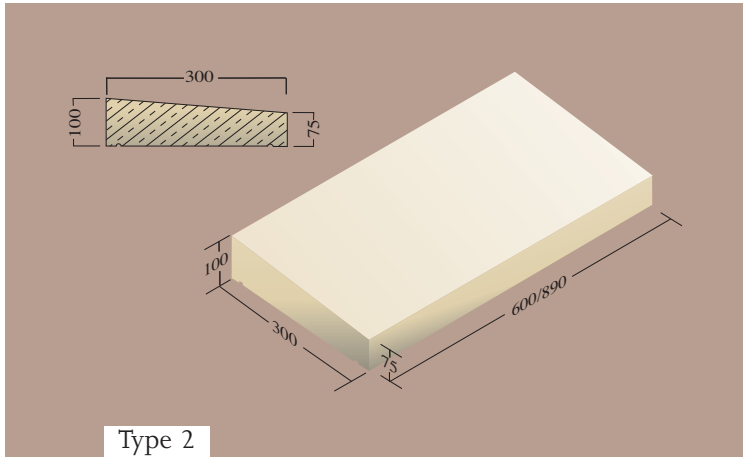
Pier String
A = 337mm Base
B = 447mm Base
C = 562mm Base
D = 672mm Base

Order code PS (Ref)
Order code eg. PS-B-(447mm)

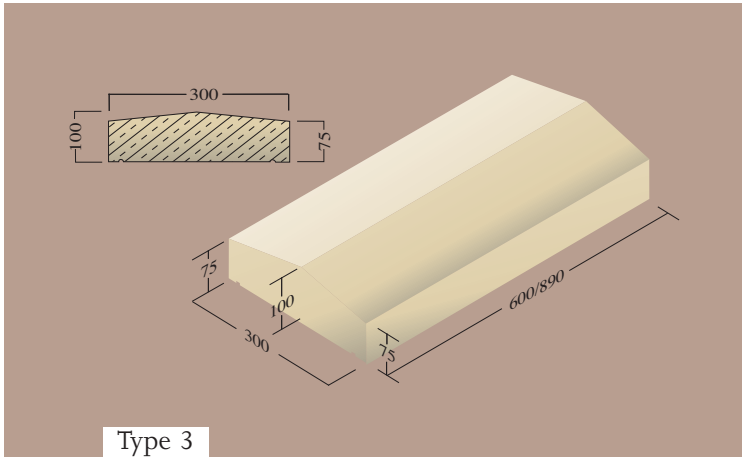
Coping



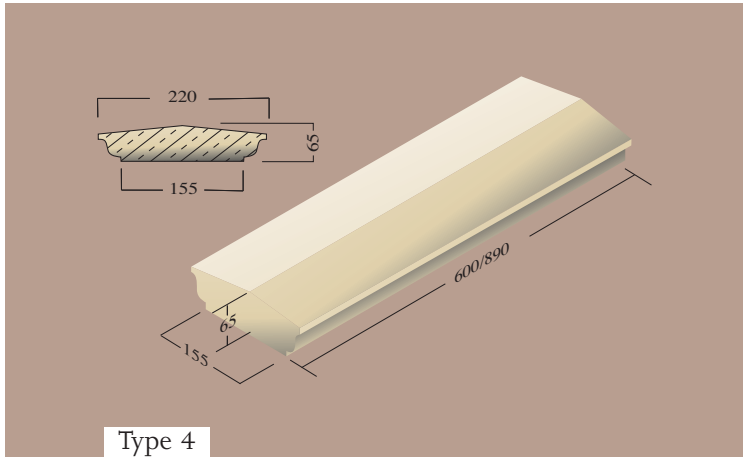
Type 1



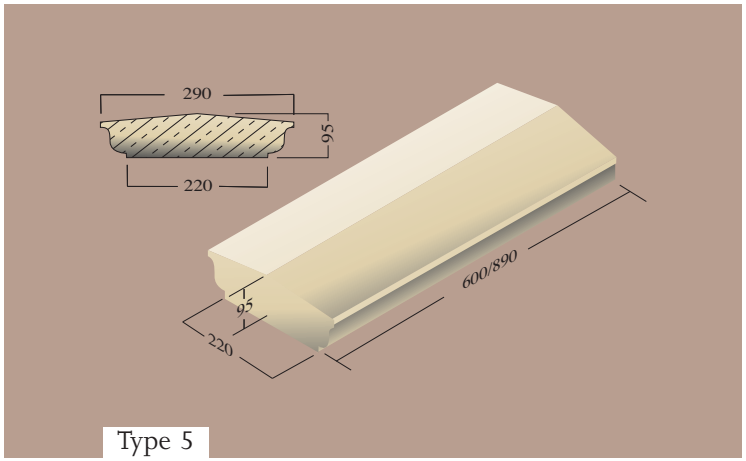
Type 2



Type 3

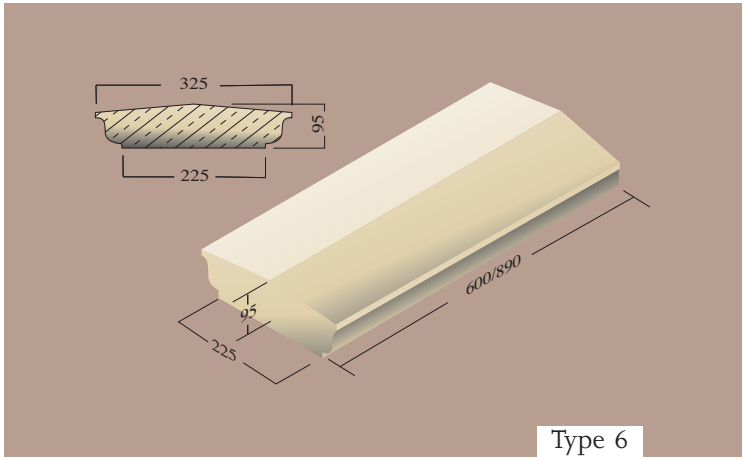


Type 4

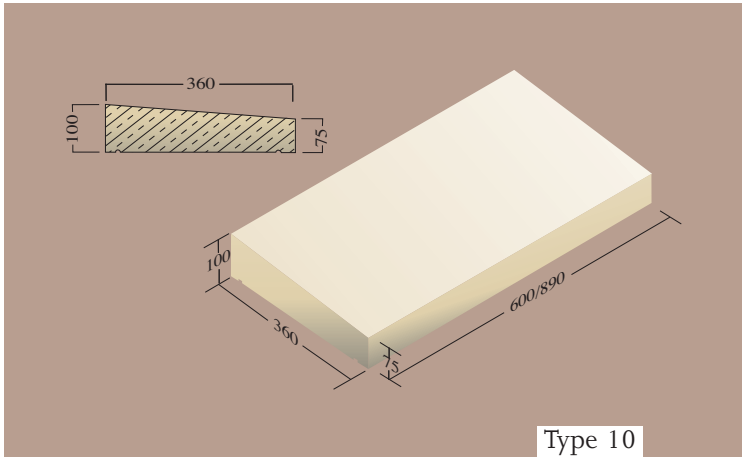


Type 5

Order code COP (type), (length)
Order code eg. COP1 – 600

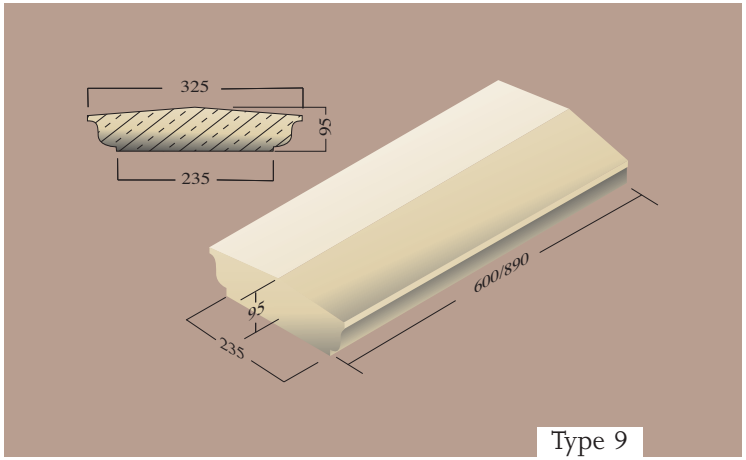


Type 6

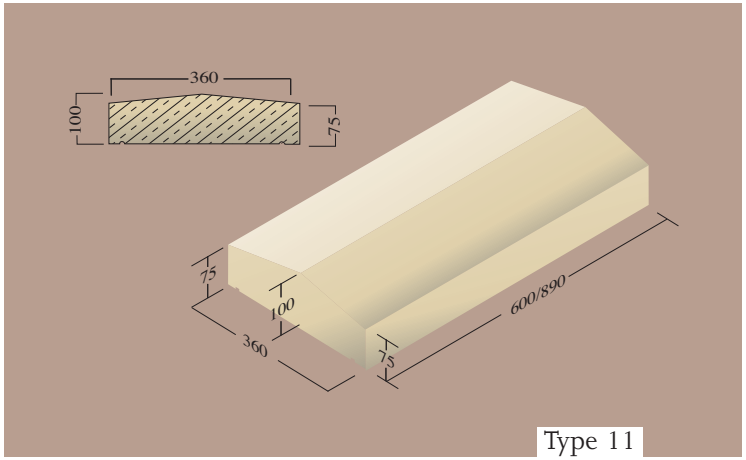


Type 10

Coping



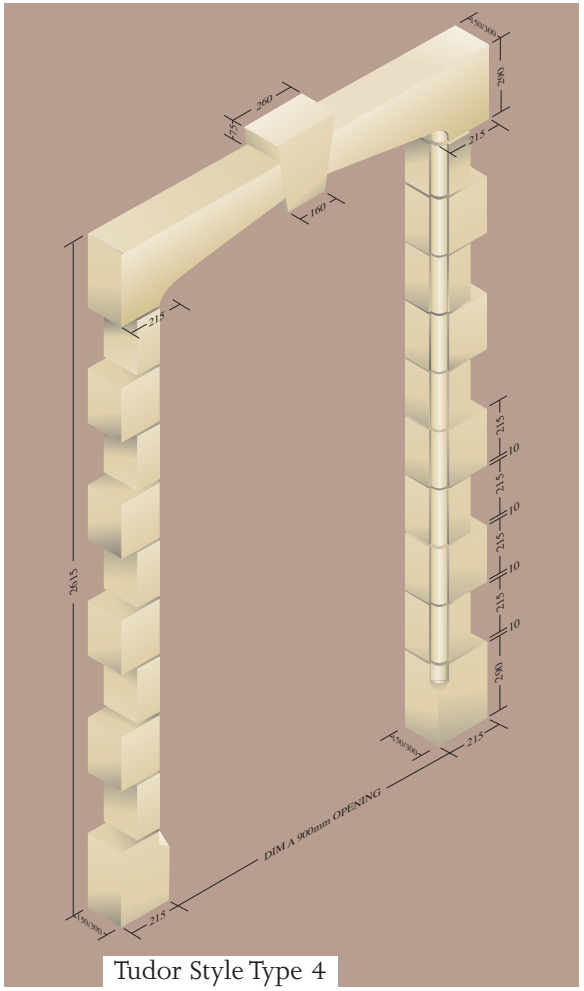
Type 9



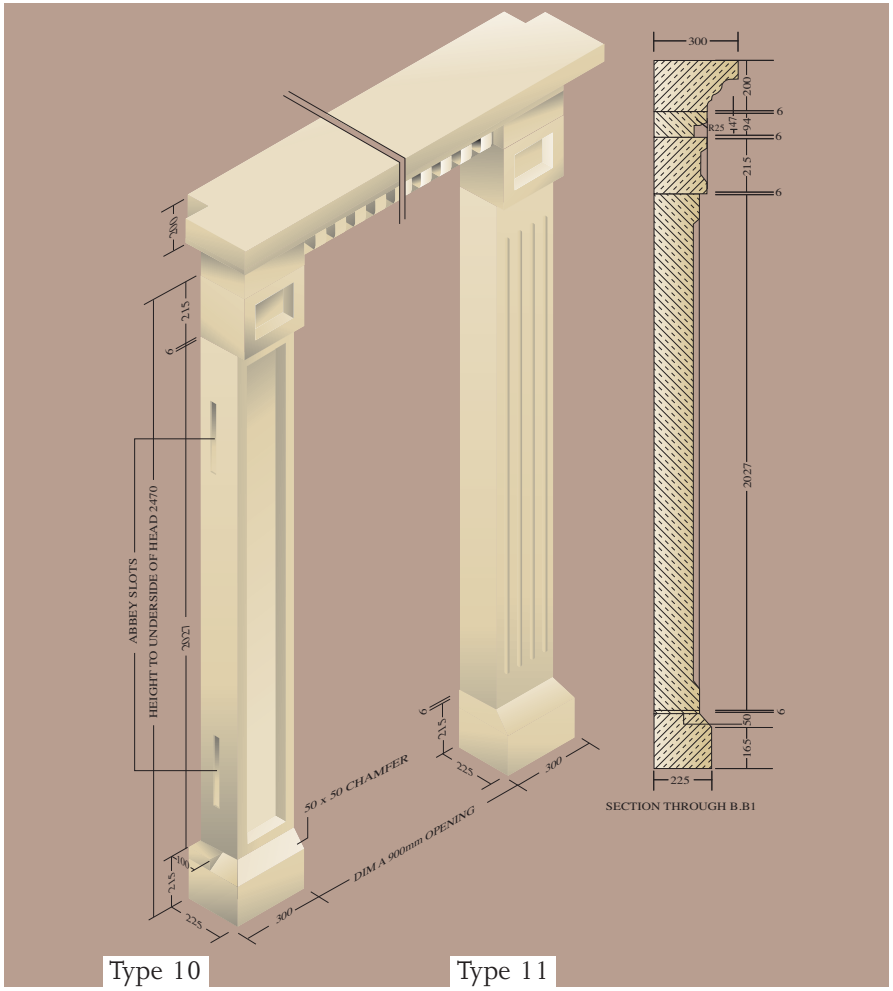
Type 11

Order code COP (type), (length)
Order code eg. COP1 – 600

Tudor Style
Door/Porch Surrounds



Tudor Style Type 4



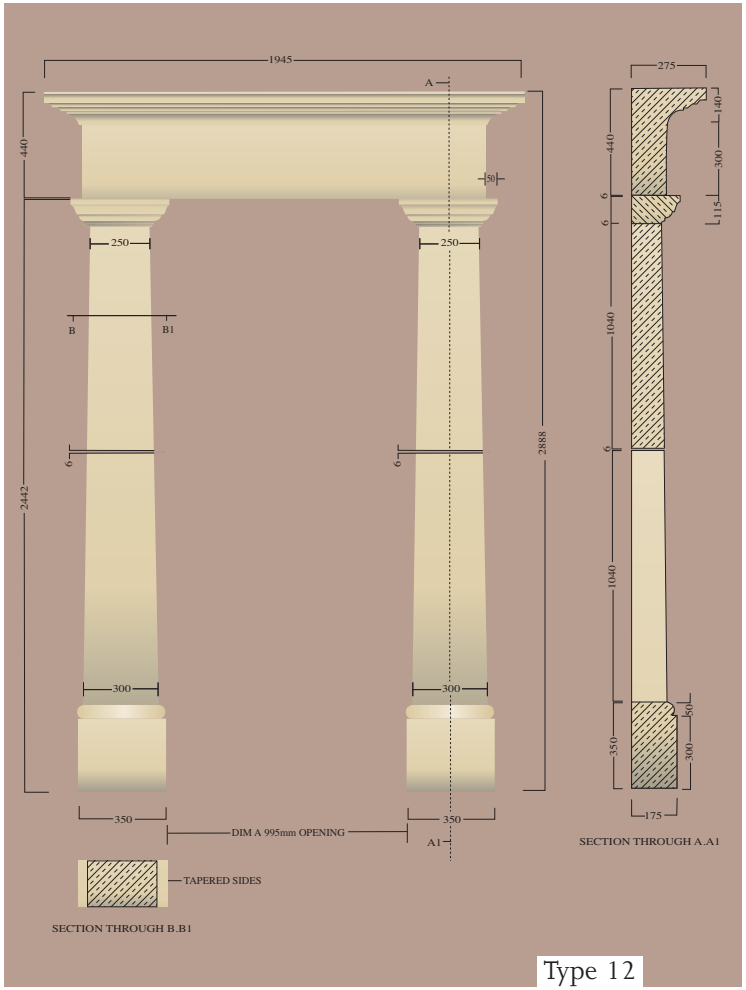
Type 10 Type 11

Door/Porch Surround Tudor Style Type 4
150 Wide – Tudor Style Door Surround (TSDS-4)
300 Wide – Tudor Style Porch Surround (TSPS-4)
Seen three sides, scroll chamfer to front and back
Order code TSDS-4 (DIM A) or TSPS-4 (DIM A)
Order code eg. TSDS-4 900 or TSPS-4 900

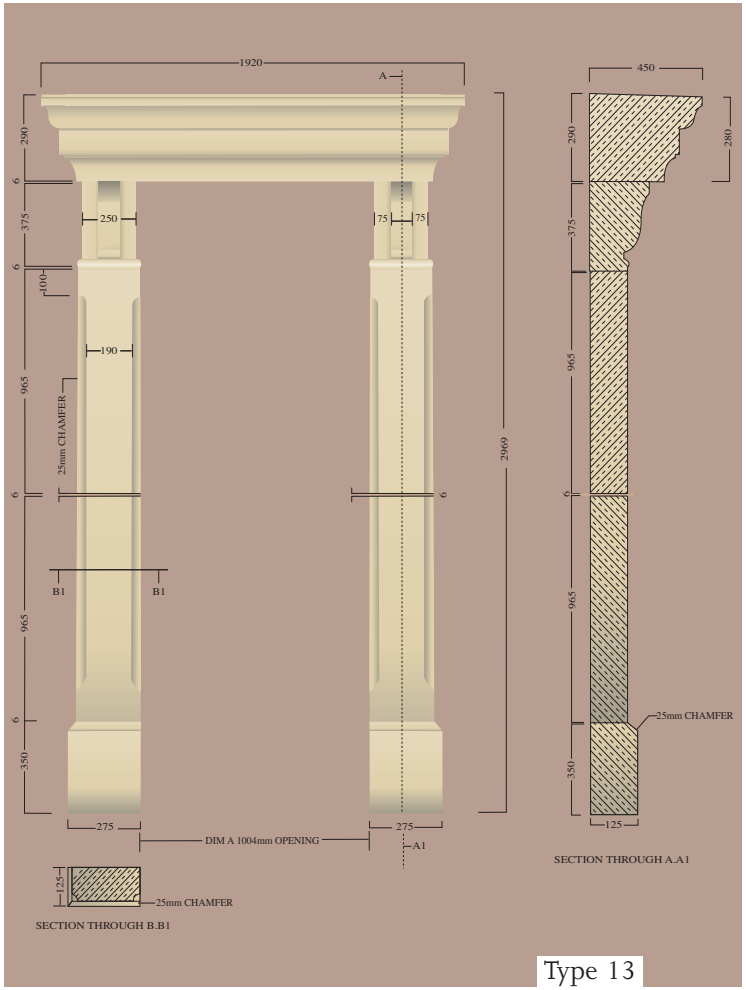
Note:
1 All heads are reinforced with high tensile steel bars.
2 DIM A = 900, 1200, 1350 & 1500

Door Surround Types 10 & 11
Order code DS10 (DIM A) or DS11 (DIM A)
Order code eg. DS10-900 or DS11-900

Note:
1 All heads are reinforced with high tensile steel bars.
2 DIM A = 900



Type 12



Type 13

Door Surrounds

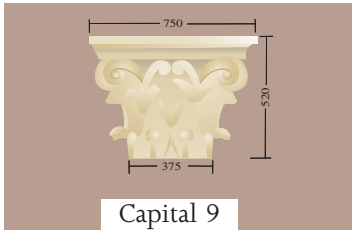
Door Surround Type 12
Order code DS-12 (DIM A)
Order code eg. DS-12 995

Note:
1 All heads are reinforced with high tensile steel bars.
2 DIM A = 995

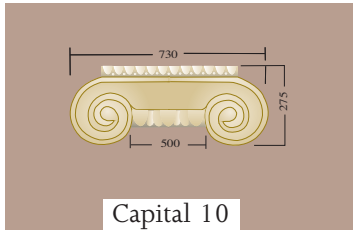
Door Surround Type 13
Order code DS13 (DIM A)
Order code eg. DS13 1004

Note:
1 All heads are reinforced with high tensile steel bars.
2 DIM A = 1004

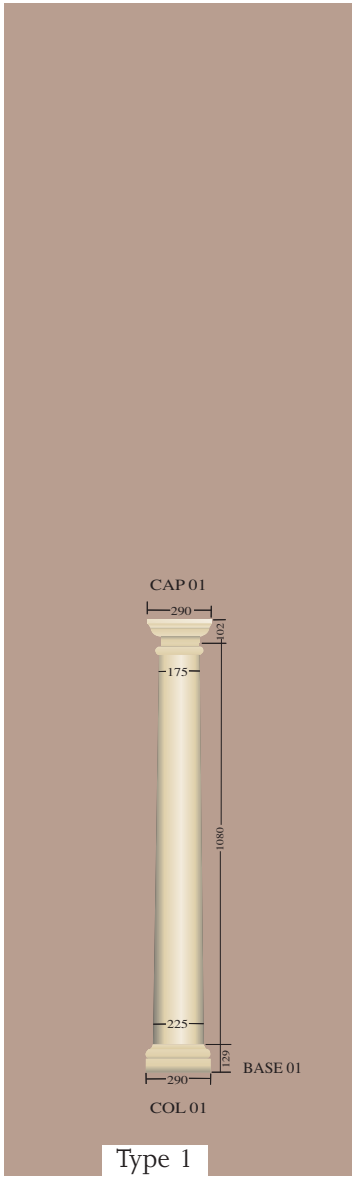
Columns



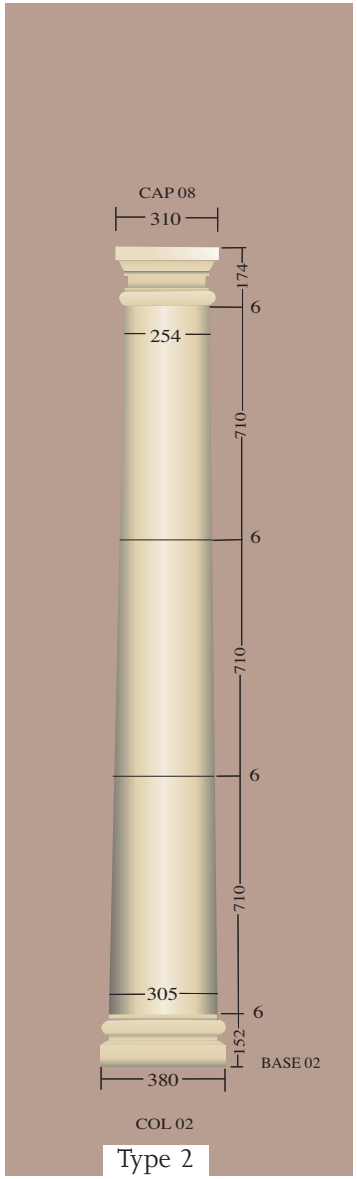
Capital 9



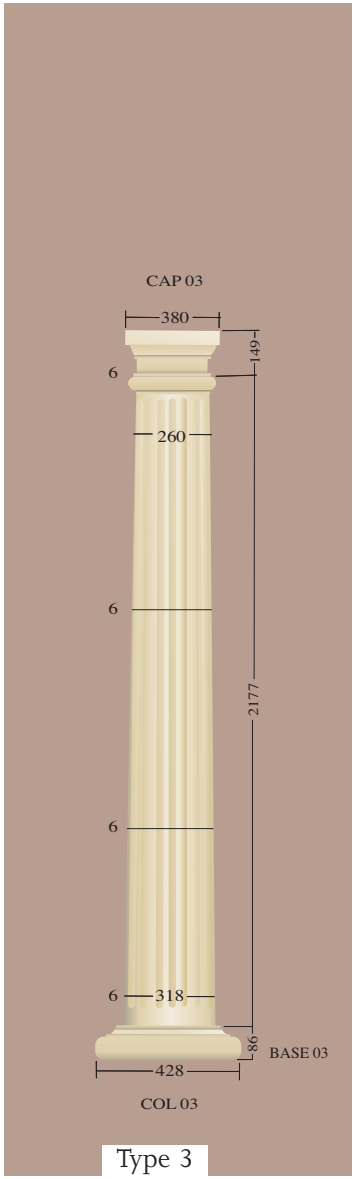
Capital 10



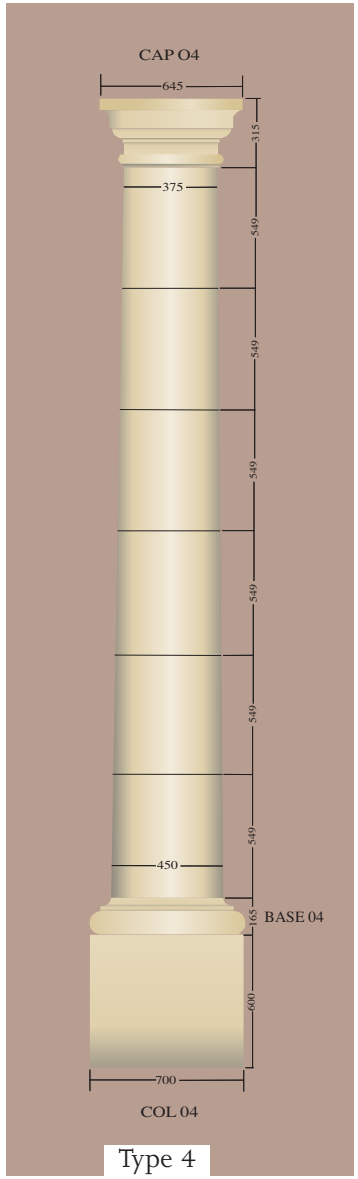
Type 1



Type 2



Type 3

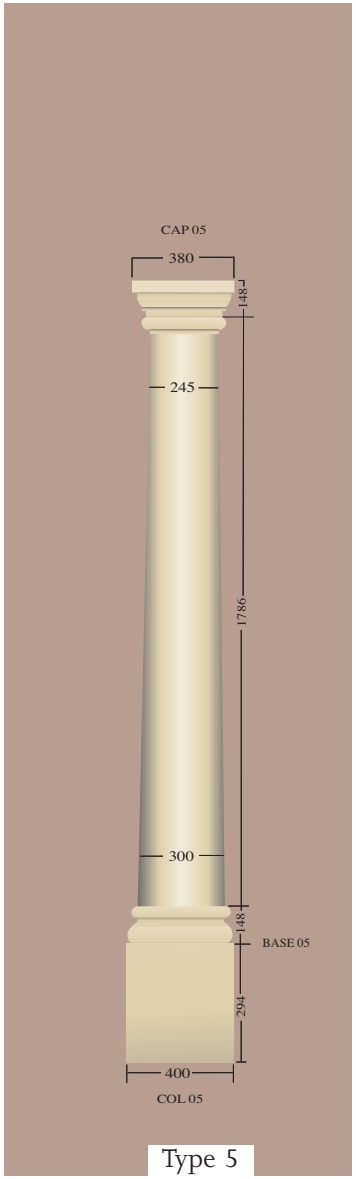


Type 4

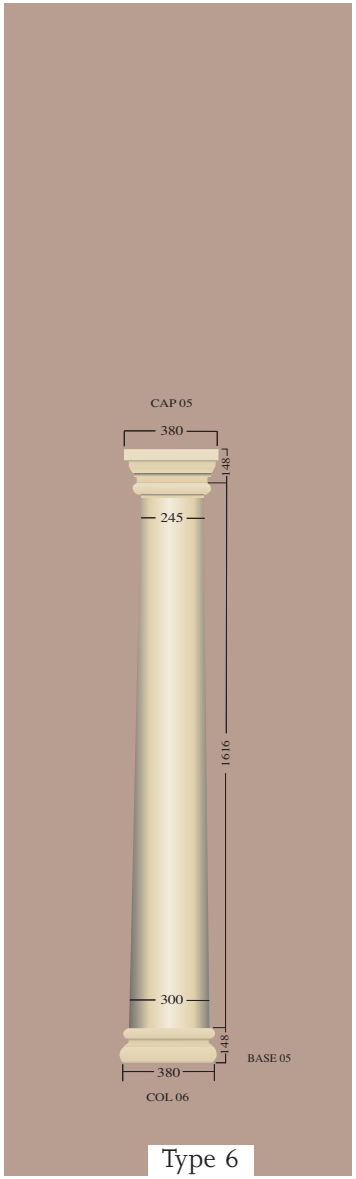
CAPS 9 & 10 OPTIONAL

All column order codes also include for the respective capital and base(s) all joints taken to be 6mm

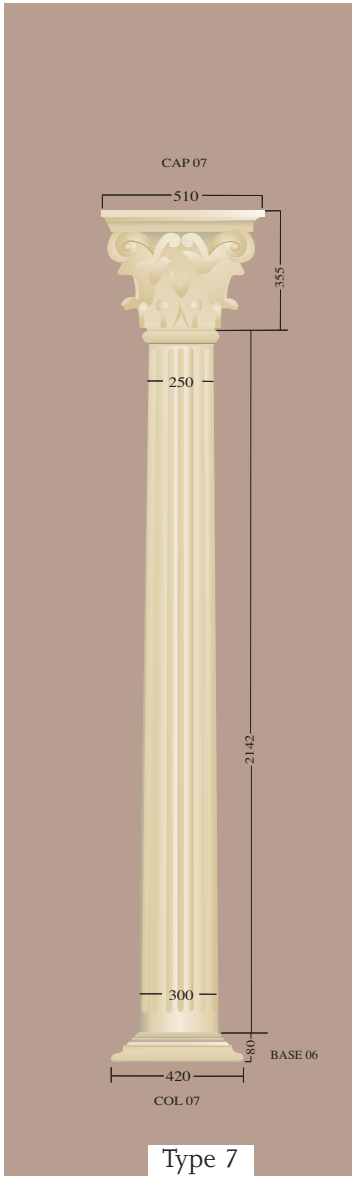
Columns



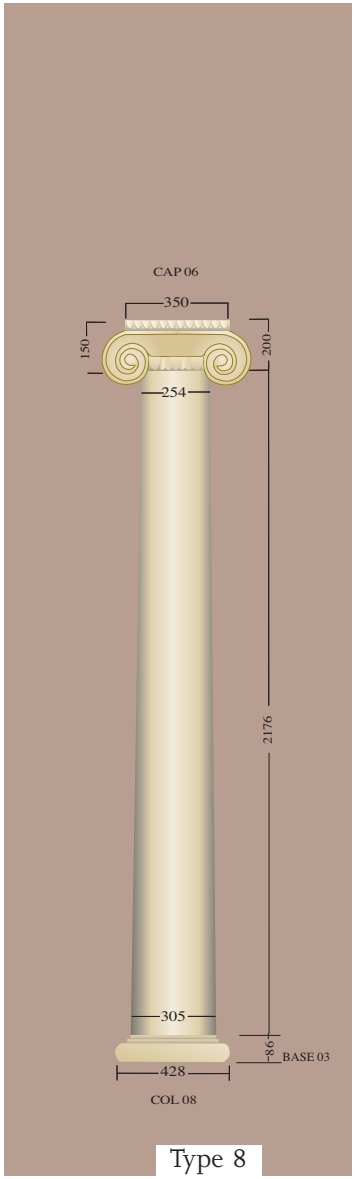
Type 5



Type 6

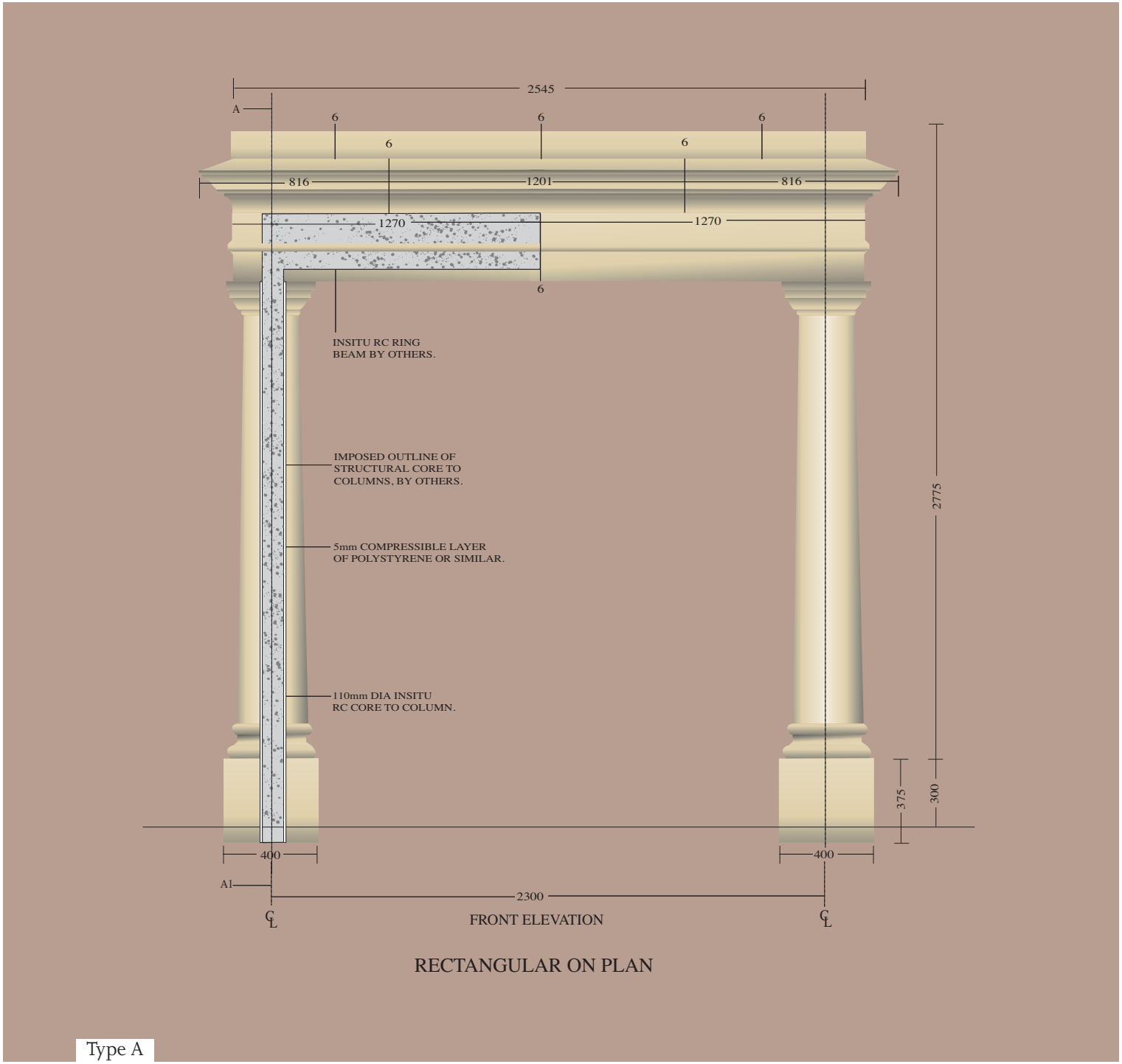


Type 7

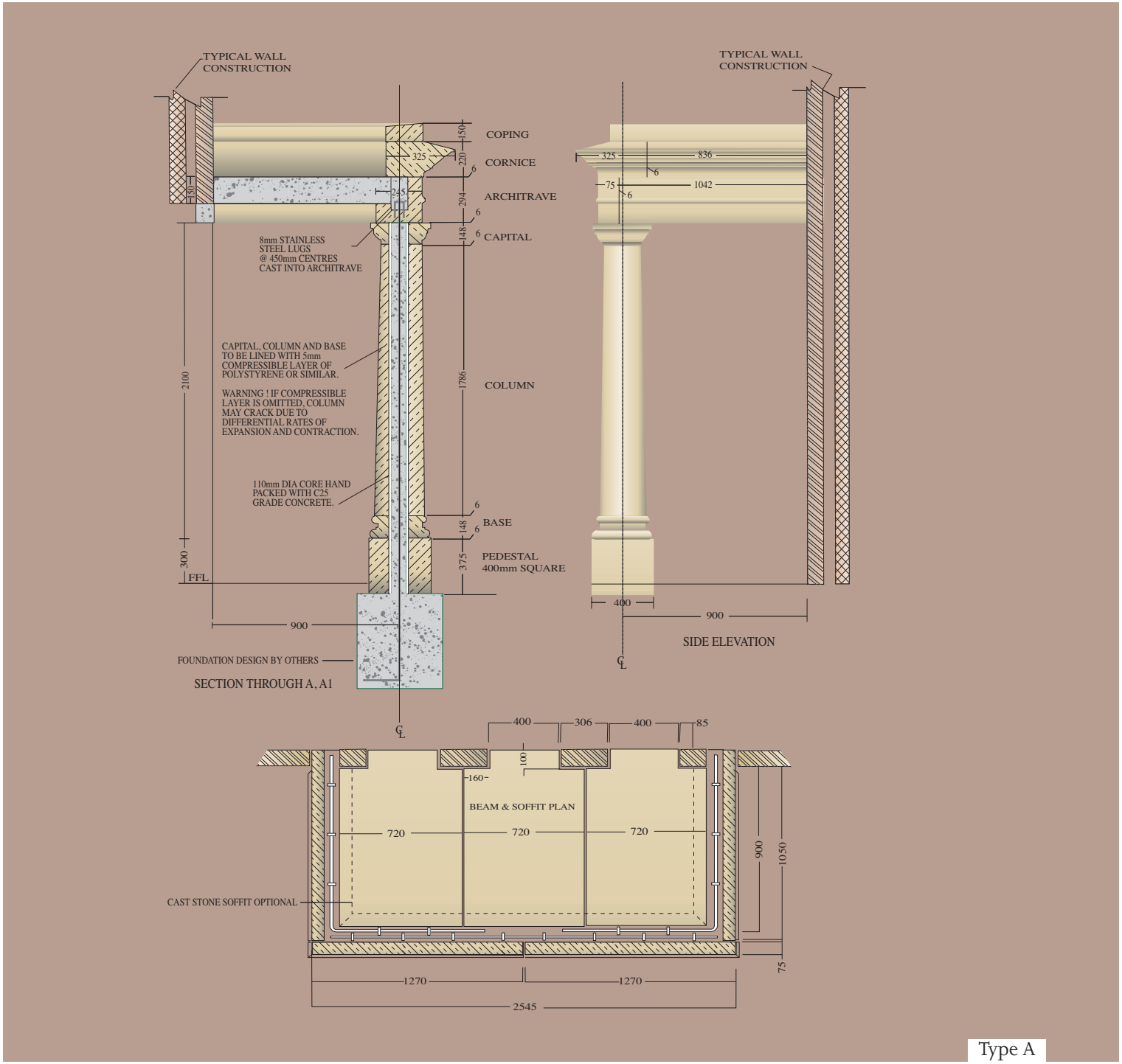


Type 8

Portico



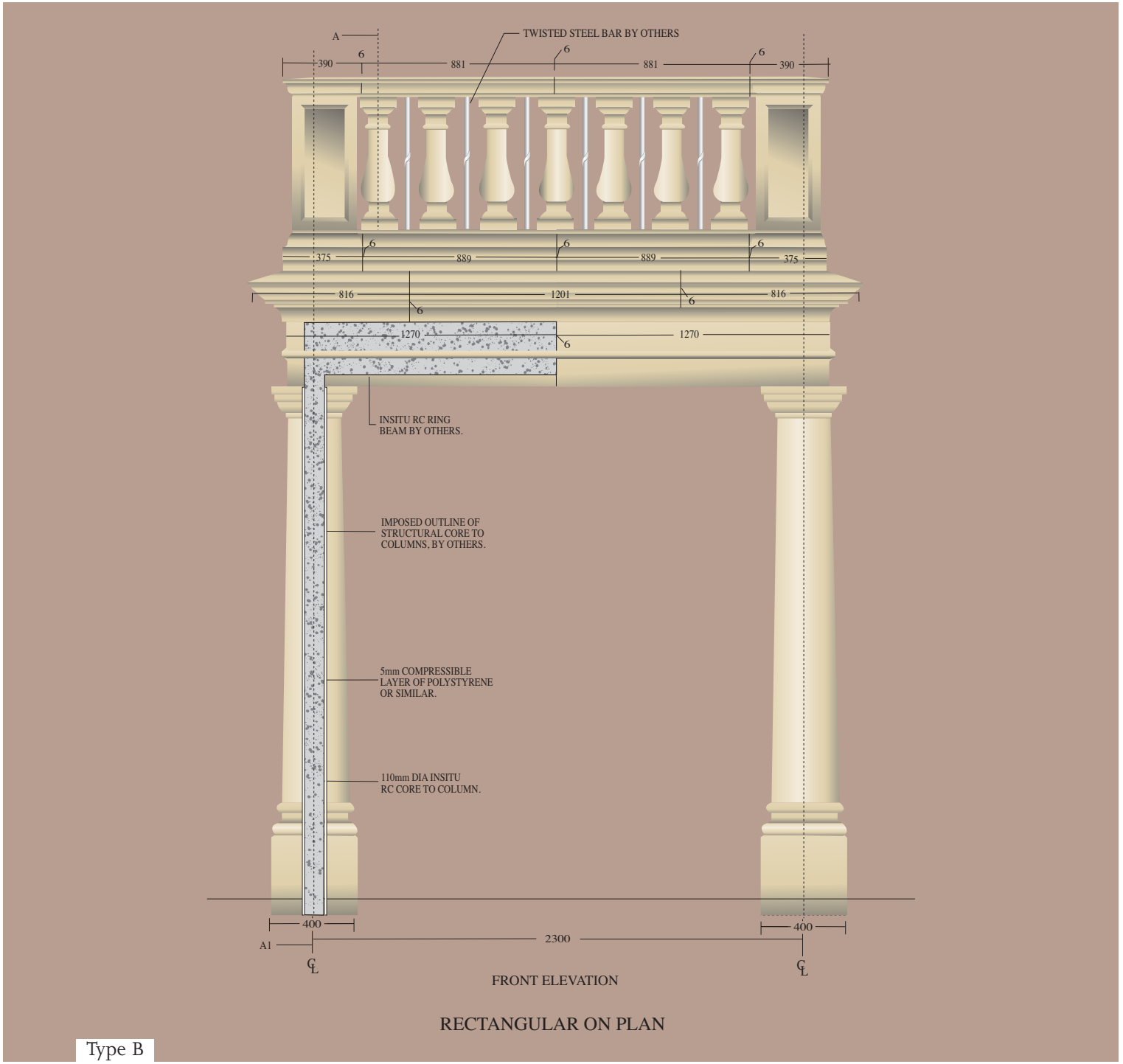
Type A



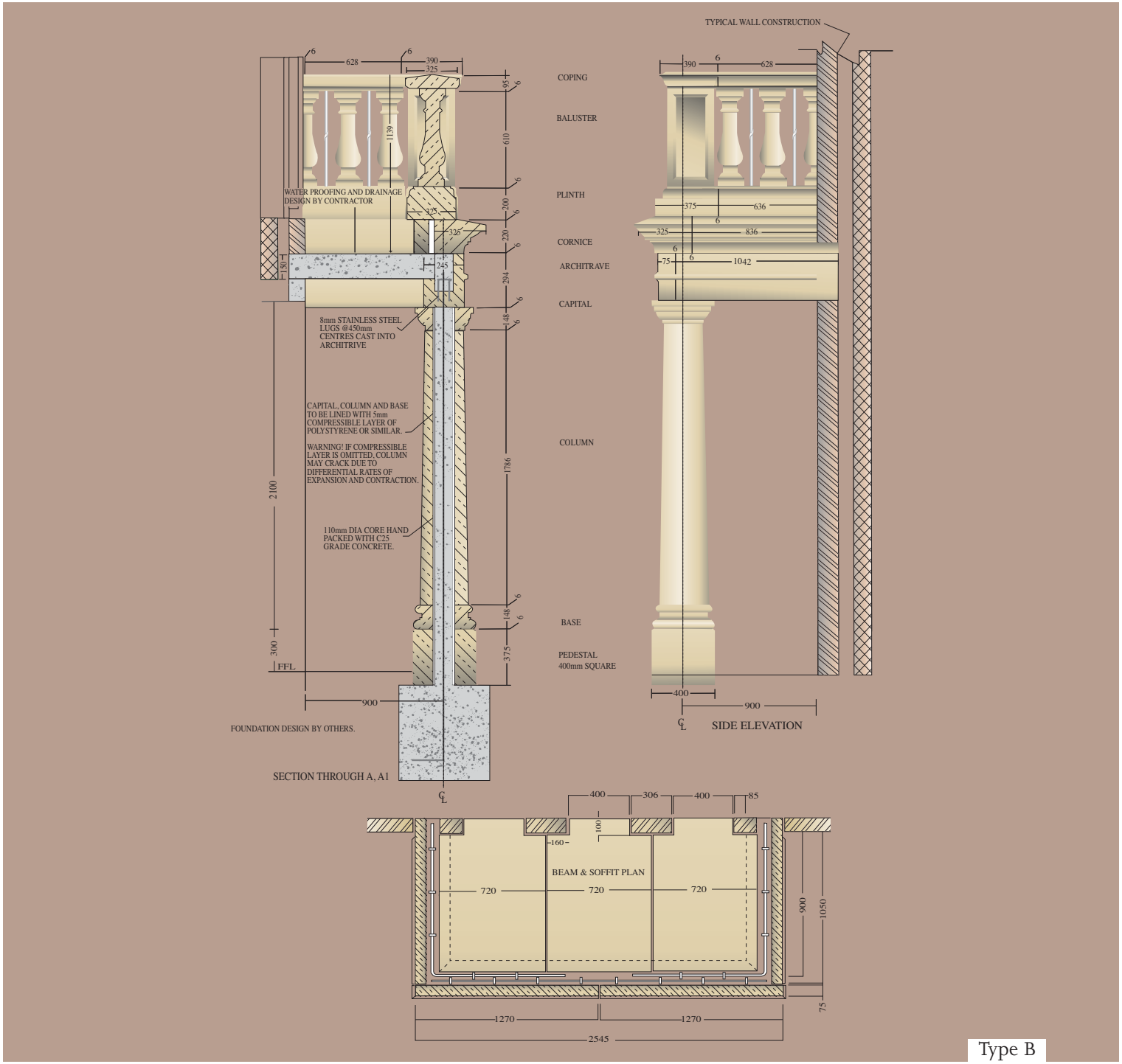
Type A

Portico

Portico



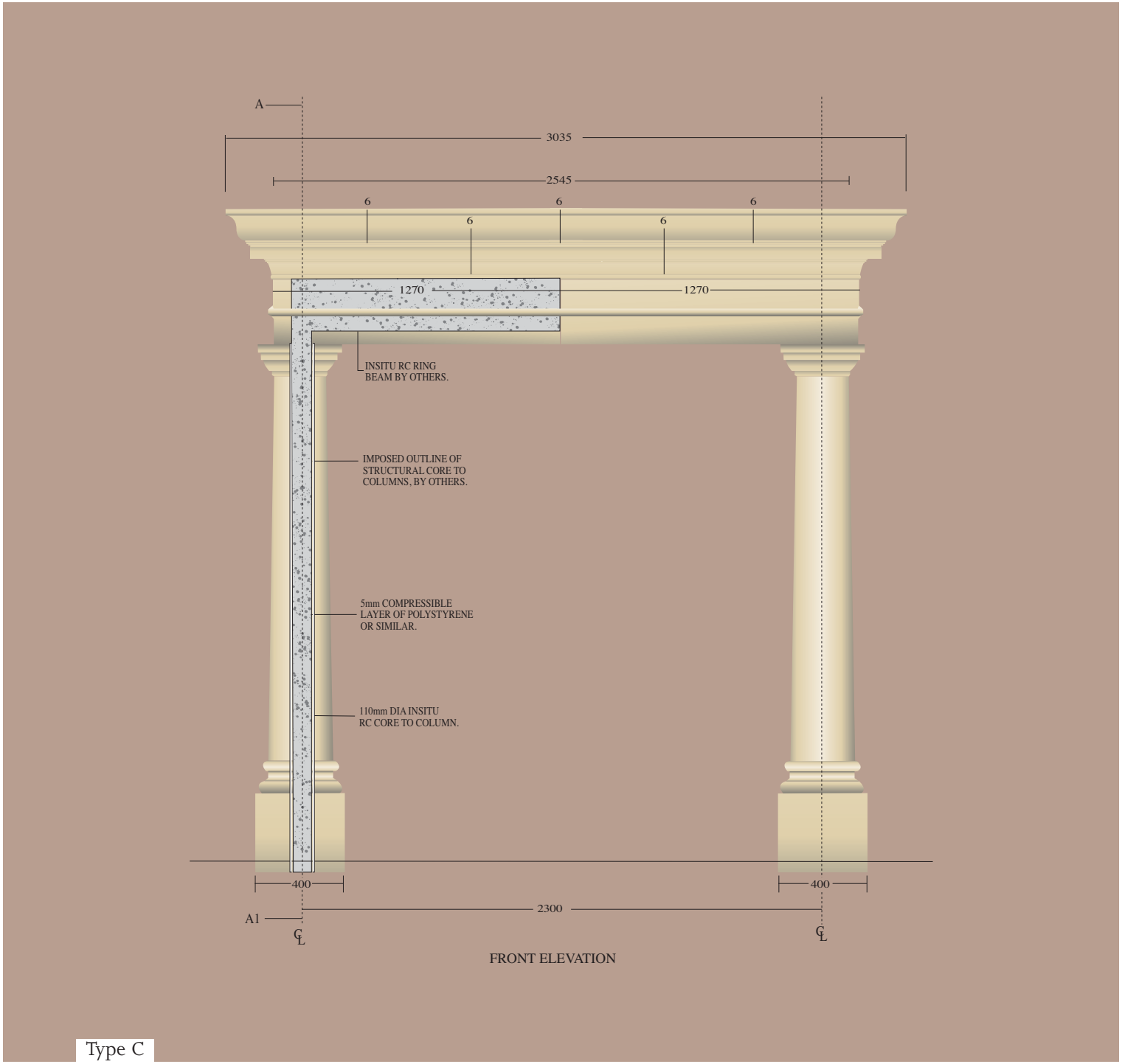
Type B



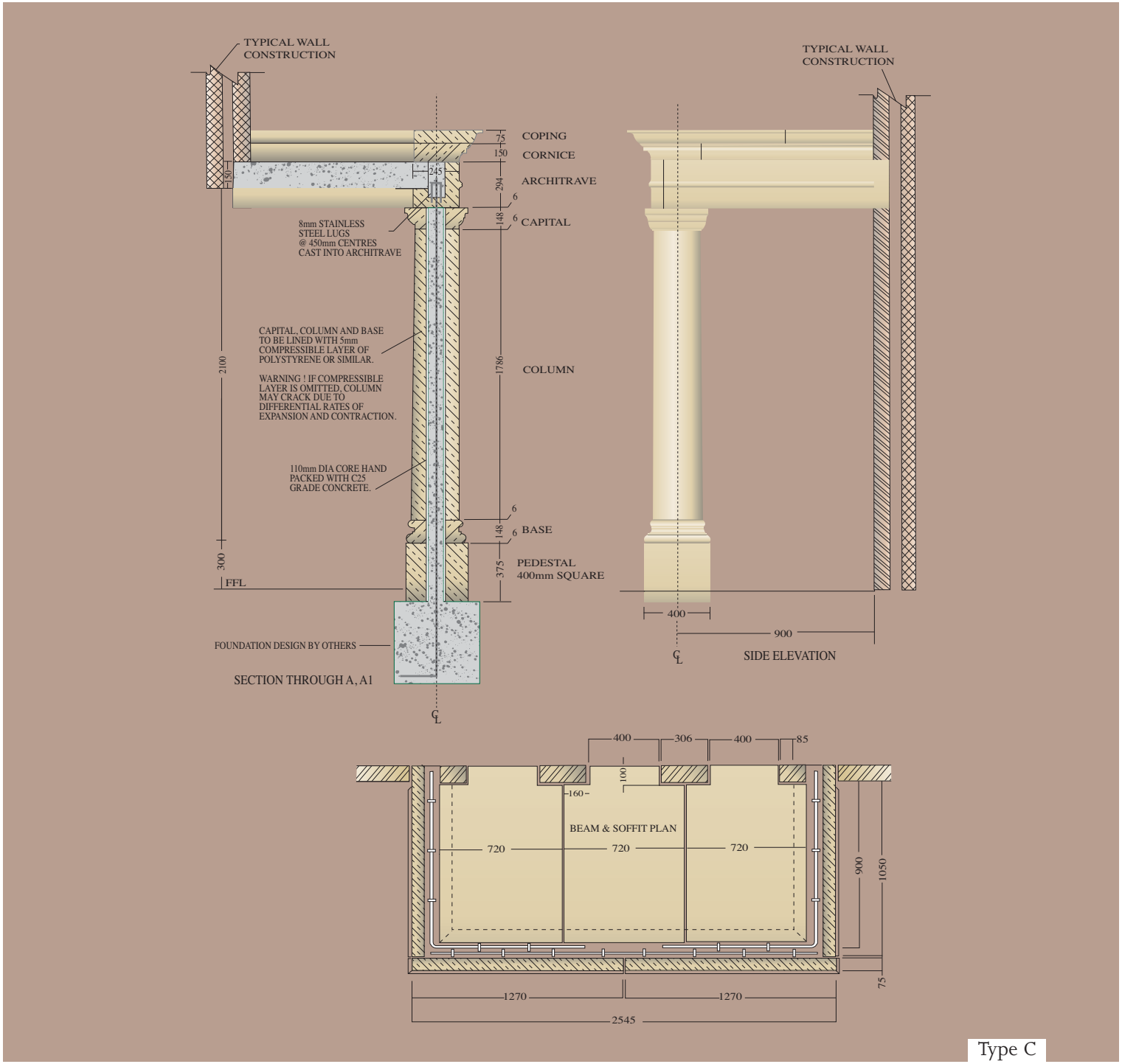
Type B

Portico

Portico

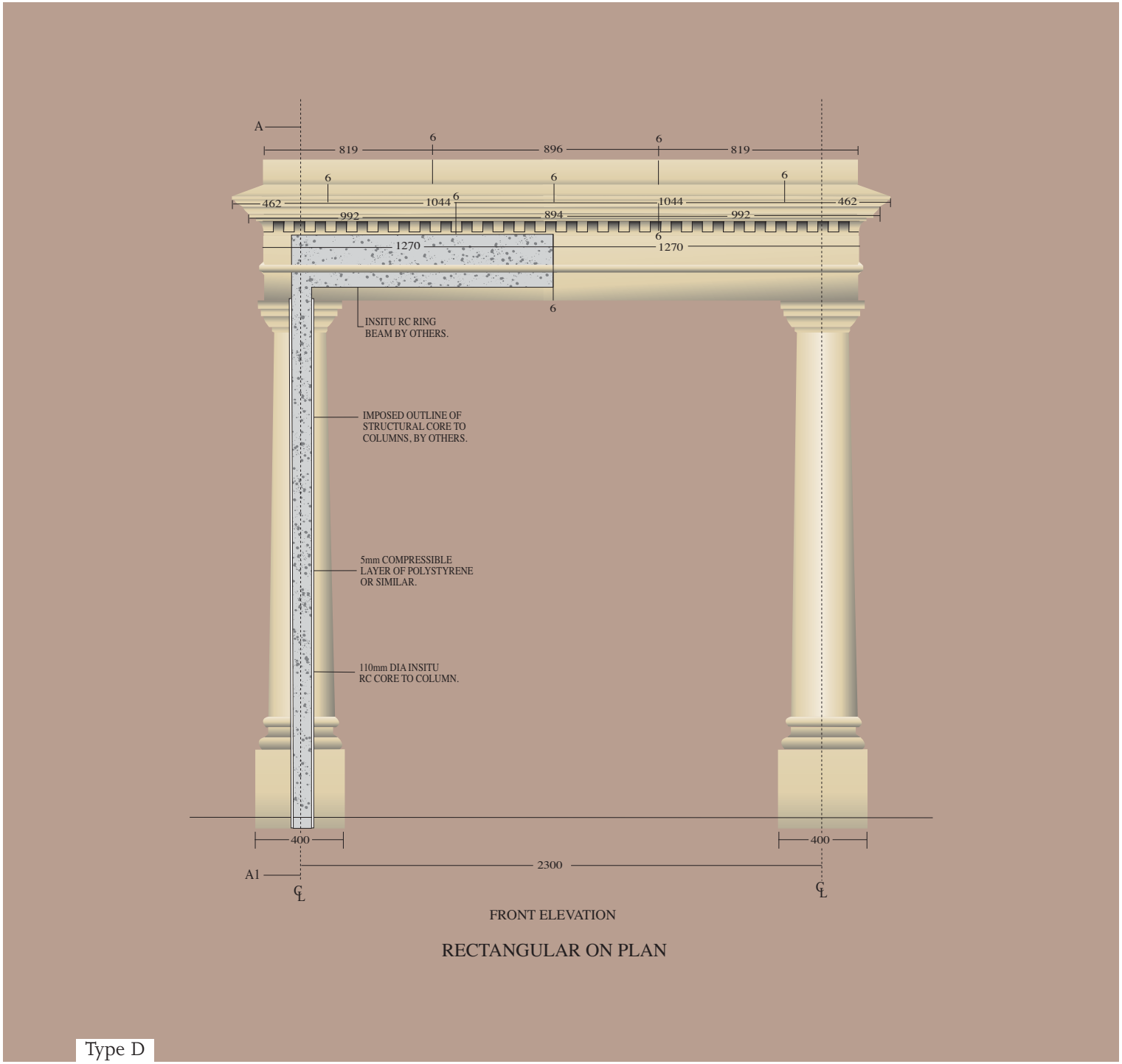


Type C


TYPICAL WALL CONSTRUCTION
COPING
CORNICE
ARCHITRAVE
CAPITAL
8mm STAINLESS STEEL LUGS @ 450mm CENTRES CAST INTO ARCHITRAVE
CAPITAL, COLUMN AND BASE TO BE LINED WITH 5mm COMPRESSIBLE LAYER OF POLYSTYRENE OR SIMILAR.
WARNING ! IF COMPRESSIBLE LAYER IS OMITTED, COLUMN MAY CRACK DUE TO DIFFERENTIAL RATES OF EXPANSION AND CONTRACTION.
COLUMN
110mm DIA CORE HAND PACKED WITH C25 GRADE CONCRETE.
BASE
PEDESTAL 400mm SQUARE
FFL
FOUNDATION DESIGN BY OTHERS
SECTION THROUGH A, A1
TYPICAL WALL CONSTRUCTION
SIDE ELEVATION
BEAM & SOFFIT PLAN
Type C

Portico

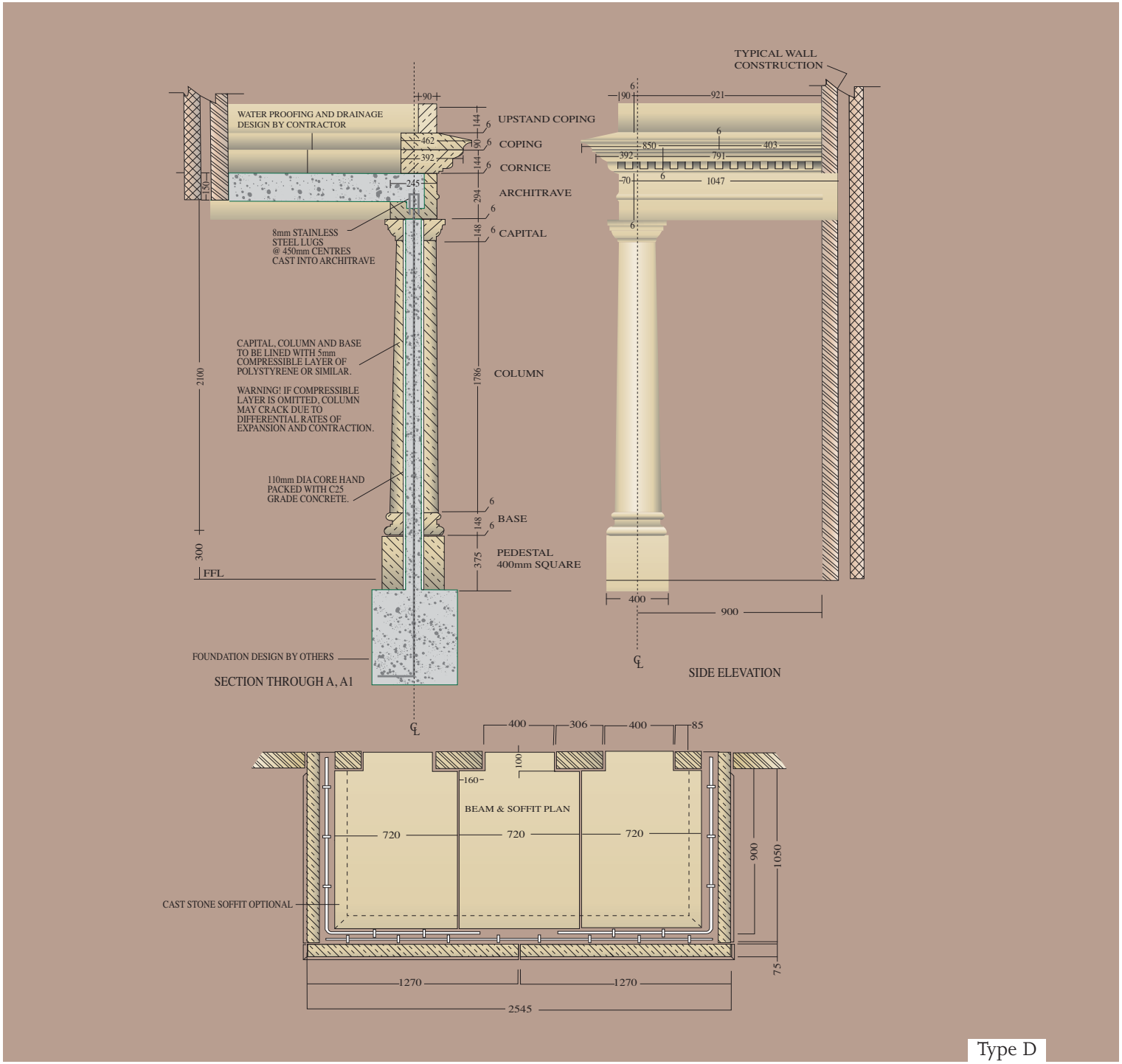
Portico



FRONT ELEVATION

RECTANGULAR ON PLAN

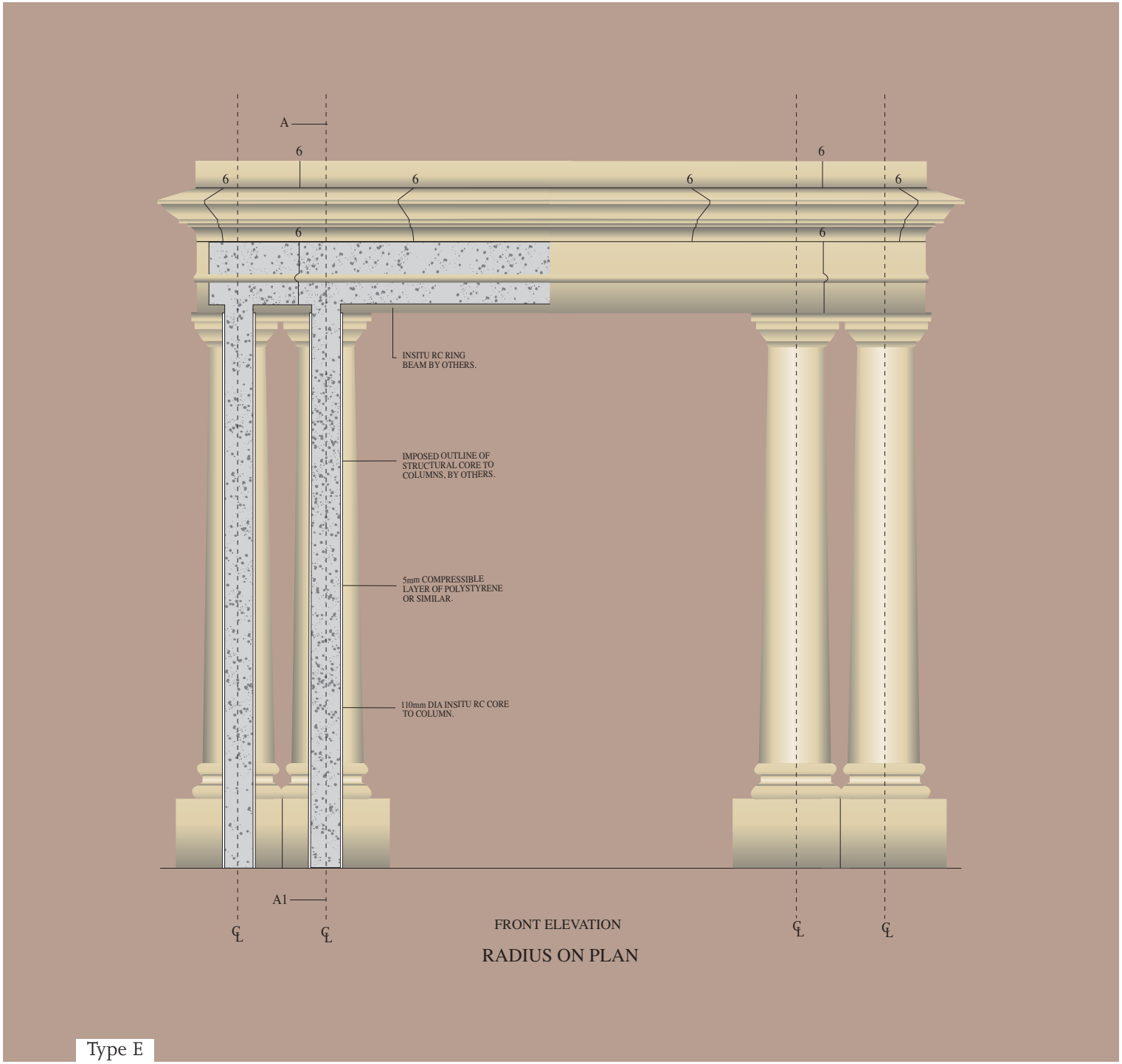
Type D



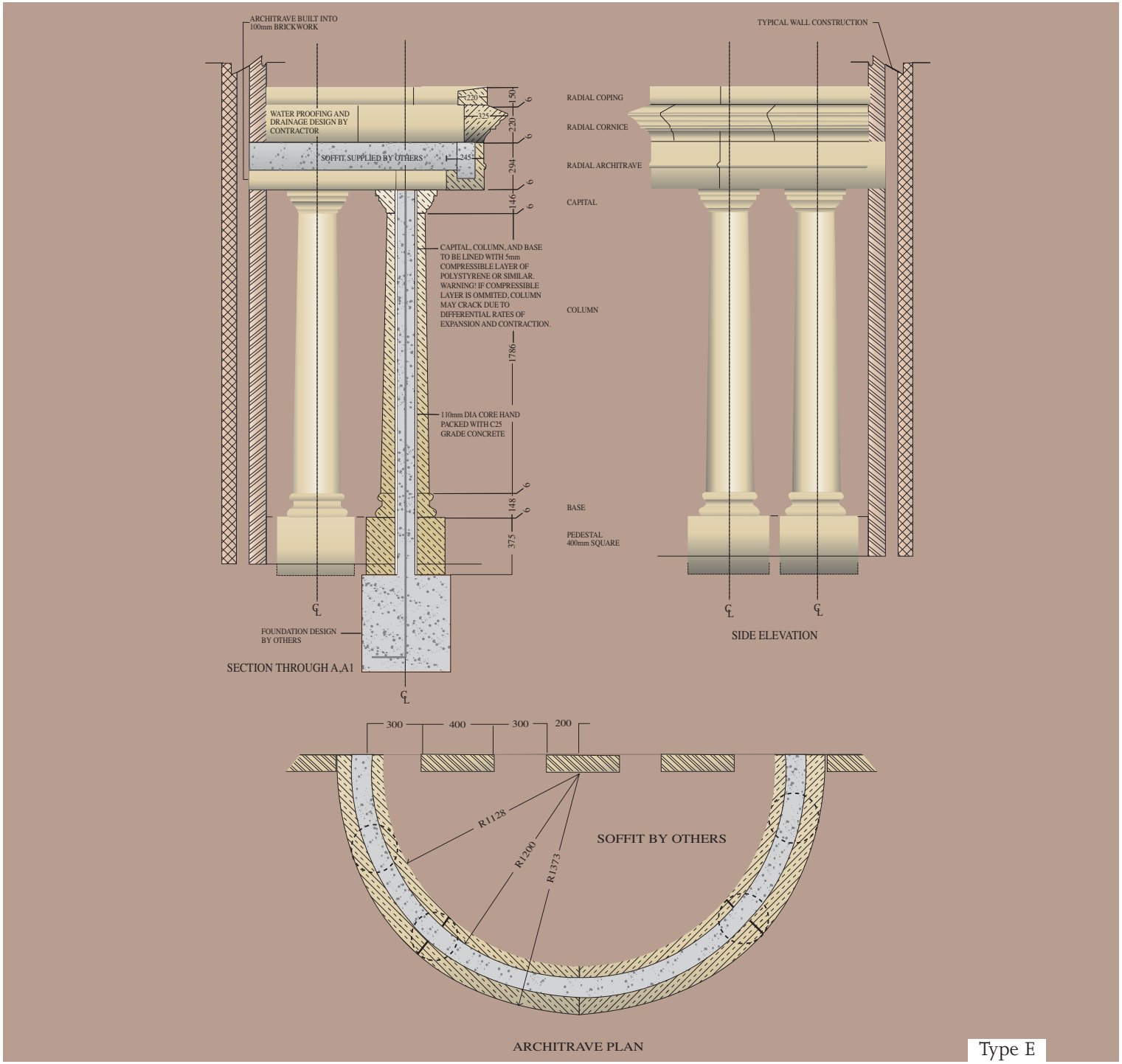
Type D

Portico

Portico



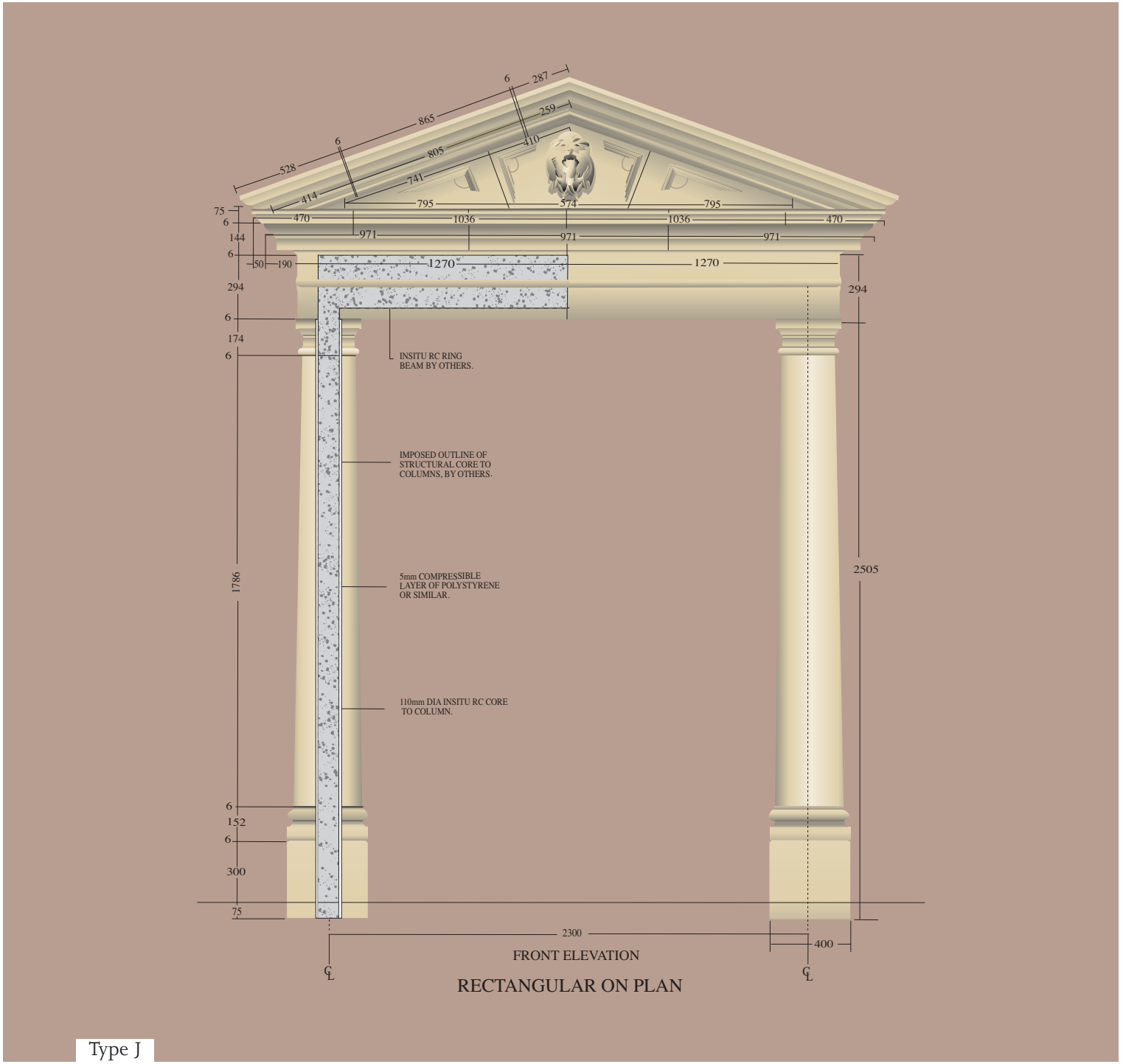
Type E



Type E

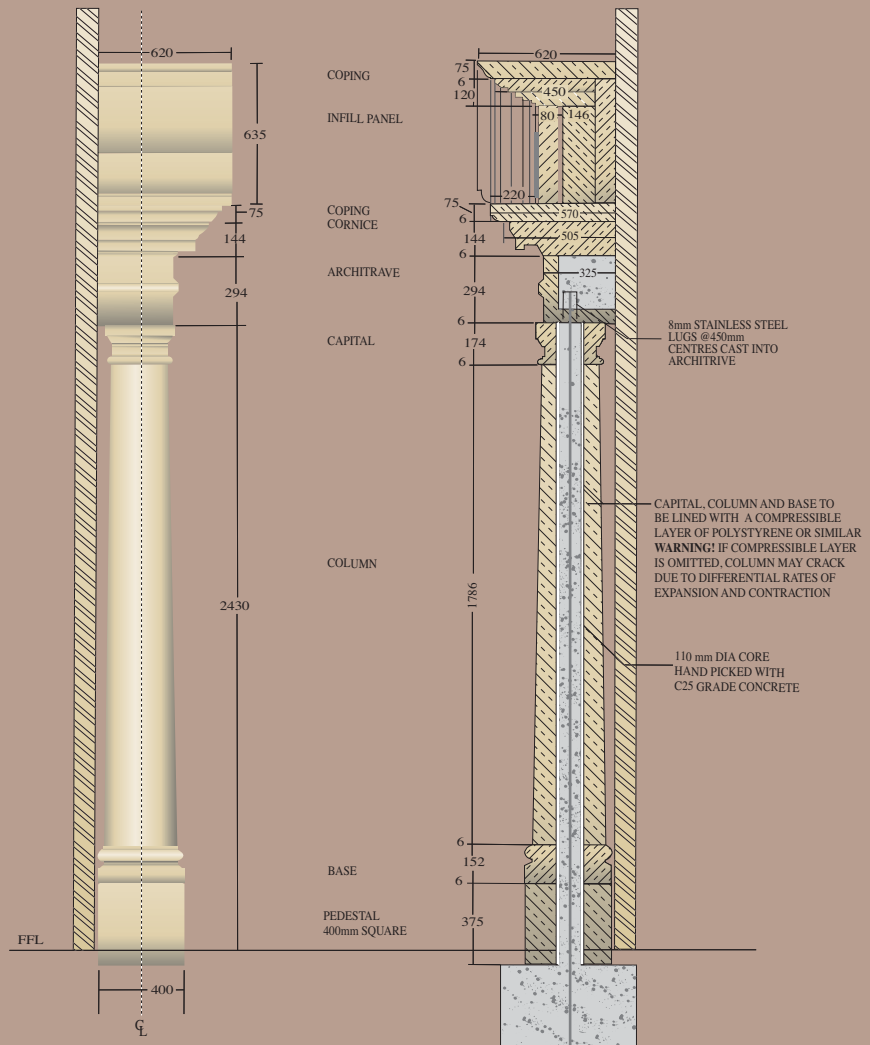
Portico

Portico



Type J

Feature lions head can be omitted if required.



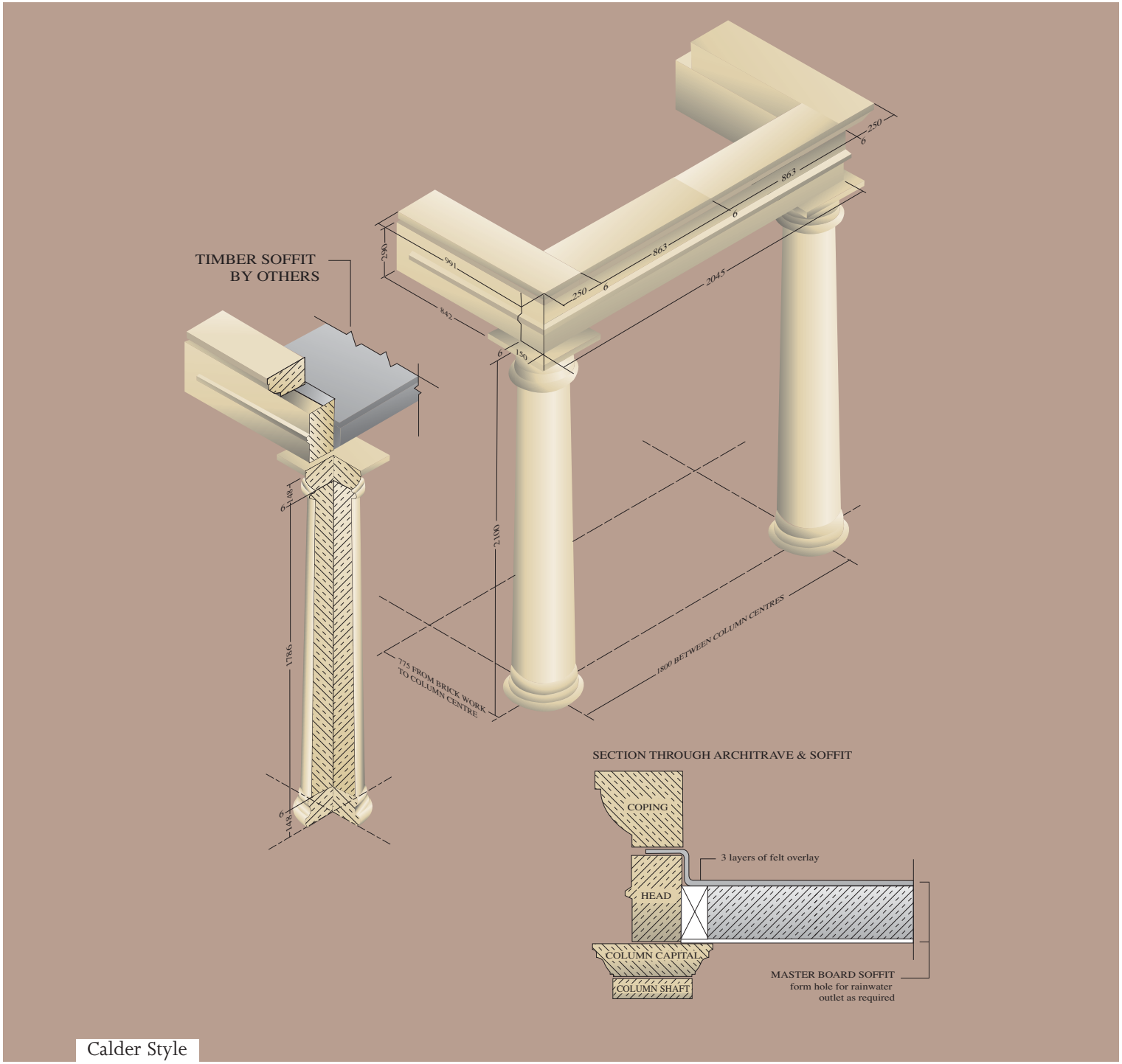
Type J

Portico

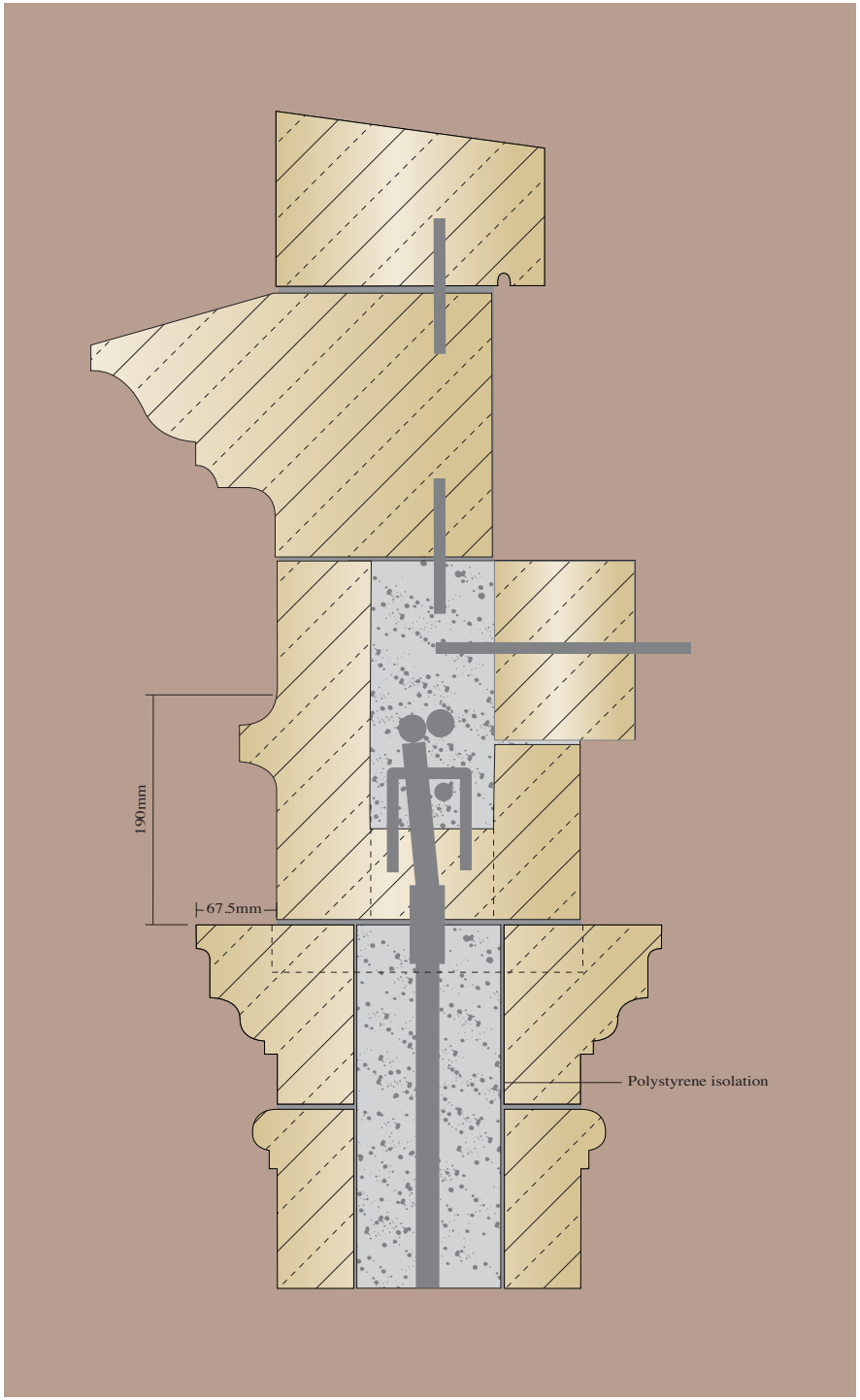
Calder Style Portico

The Calder Portico is simple to erect and will certainly provide the classical finishing touch to any new or existing property.

Incorporating solid traditional Tuscan columns, cornice and architrave, the Calder Portico requires no additional reinforcement or insitu concrete, thereby making it a desirable feature that can now be added cost effectively to any development.



Calder Style



Portico Construction Guide for most Types excluding Calder Style

Coping set in 1:2:9 cement, lime, sand mortar, recessed and pointed up with matching mortar colour. Each coping with 2 no. 6mm S/S pins site drilled and resin anchored.

Cornice set as coping but allow 14 days for r.c. beam to mature before drilling.

Sequence of erection for main columns and beams.

1. Set out column at desired distance apart and away from building wall, excavate for appropriate sized footings, set up 20mm dia L shaped bar with threaded end at top to finish 150mm above top of circular column base unit and central to the core.

2. Set square section pedestal units parallel to house wall and central to core position in 1:2:9 mortar, 6mm joints, line core with polystyrene and hand fill with 25 grade concrete with small gravel aggregate and allow to set, checking plumb and level of unit. Fix splice connector.

3. Set column base unit in 6mm 1:2:9 mortar, check centre, and level, line core with polystyrene, hand fill with 25 grade concrete and leave to set.

4. Line main column with polystyrene, hoist into position set in 1:2:9 mortar joint 6mm thick and plumb up checking centres across the top. Compensate for taper of column with 27mm block below neck to check plumb. Prop and edge column on 4 sides, insert main 20mm dia column bar and screw tight, hand pack bottom 300mm of column with 25 grade concrete, check plumb, leave 24 hrs to set.

5. Fill concrete column cores to within 200mm of top and allow to set. Bed column capital in 1:2:9 mortar with 6mm joint onto top of column, check for square with 6mm joint onto top of column, check for square with building and level top. Ensure bar splice connector is fitted prior to bedding on the capital. Fit short angle shaped 20mm dia steel bar, tighten up and fix bar splice to main beam end. Hand pack concrete to top of capital, leave 24 hrs.

6. Scaffold around columns, fully acro prop and support 250x50 timber soffit support to front and side beams, level 6mm above capital tops. Full width of J beam MUST be supported. Hoist and set side beams, then front beams into place, forming soft joint between top of capital and underside of J beam, check level and square, install 20mm dia main beam bars, min 1000 overlap, and combined corner / side beam bars, min 900 return into front beam. Hoist precast soffit units and set on 1:2:9 mortar (ensure slots in wall min 300 tall) leave to set, ensure all joints filled and end of beam stopped. Fill beam with 25 grade concrete, leave support 14 days.

Quality Control Procedures

Delivery

Packing

Technical Specification

All Elegant Stone products comply with the specification for cast stone as defined by BS: 1217:1997.

Mean Dry Density: Approximately 2250 kg/m^3

Compressive strength: The average crushing strength of three cubes as tested in accordance with BS1881 part 116 shall be no less than 35N/mm^2 with no individual unit less than 28N/mm^2.

Water absorption: Components shall not exceed 1.0mg/mm^2 for Capillary Absorption Test (CAT) as defined by BS1217:1997.

Dimensional tolerances:

Up to 600mm	± 2
601 to 1000mm	± 3
1001 to 2500mm	± 4
2501 to 4000mm	± 5
over 4000mm	± 6

Flatness of plane: Maximum permitted variation from plane = 0.3% of the maximum dimension of the item or 2mm whichever is the greater.

Thermal conductivity: 1.70w/mk

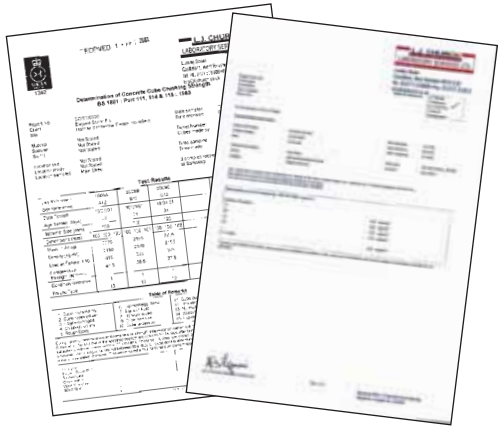
Aggregates: To BS882:1992 and BS3797:1990

Cement: To BS12:1996

Pigments: To BS1014:1975

Elegant Stone products are subject to comprehensive internal quality control procedures and are regularly independently tested to ensure all components are manufactured to the highest standards.

As with natural stone, cast stone may be subject to slight shade variations.



Ordering and Delivery

All orders should clearly state the following;

- Product code and size
- Colour
- Exact quantities
- Week commencing delivery date
- Full delivery address
- Any specific delivery instructions or requirements i.e. mechanical offloading, 24 hours prior notice etc.

All orders are acknowledged in writing and subject to Elegant Stone's terms and conditions of trade.

Deliveries are made on shrink-wrapped, free of charge, non-returnable pallets with components clearly coded for ease of identification on site.

Acknowledgments

1. James Allen Construction
2. Chiltern Construction Ltd
3. Ellmer Homes Ltd
4. Mr and Mrs Michael Griffin

Site Practice and Handling

1. Pallets should be stored on firm level ground.
2. Never stack pallets on top of each other.
3. Ensure scaffolding poles, timber and all other objects do not come into contact with pallets in allocated storage area.
4. Always ensure when moving pallets that forks are extended as wide as possible to ensure base of pallet does not deflect, thereby cracking lower units.
5. Lifting components directly with chains or slings is both dangerous and can lead to damage of the units.
6. When using grabs, always ensure they grip the pallet and not the stone.
7. Individual units should have suitable protection between faces to reduce the possible damage.
8. Components must be supported by timber bearers which should be positioned to prevent point loading.
9. When removing polythene shrink-wrapping, do not burst open or tear off as this may damage edges and corners of components. Carefully cut open polythene using a sharp knife, taking care not to damage units within.
10. Never drag or slide units across each other.
11. Components should be handled and stored in the plane to which they are designed to be installed.
12. Once in place, components should be protected from damage or contamination from following trades, by covering with timber or heavy gauge polythene sheeting.

Efflorescence

Efflorescence or "lime bloom" is a temporary, naturally occurring phenomenon that can affect cast stone as well a other cement based products. A lightening of the surface may occur which may be more prevalent in damp conditions. Efflorescence in no way effects the structural integrity of the cast stone and in most cases will disappear in time with normal weathering.

Repairs and Cleaning

Cast stone products should be handled with care and protected at all times to minimise damage, subsequent remedial work and cleaning. However, repairs can be undertaken using a suitable mix supplied direct from our factory. Depending on the nature and extent of the damage incurred, repairs may be carried out by site operatives.

Disclaimer

As Elegant Stone operate a policy of continual product development, the information and details provided in this brochure may be subject to change without prior notice.


Bath


Minster


Pennine


Chester


Portland


Windsor