

GB

architectural
cladding products ltd

Excellence in **architectural cast stone**



Rylstone

Trusted by professionals **for over 30 years**



RYLSTONE CAST STONE

beauty and strength combined



This product guide has been carefully prepared to provide you with an insight into our products, philosophy and values. It contains detailed product specifications and technical data, giving specifiers valuable information relevant to the design and specification of their own projects.

We hope it is of great value and an important source of aid to all, helping to achieve design excellence in all of their future projects.

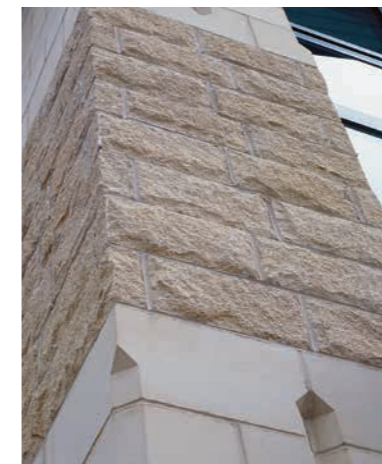
All Rylstone products have been extensively tested giving proven performance within a variety of applications over a number of years.

The products are manufactured from the finest raw materials, adhere to the strictest quality control standards and incorporate an integral waterproofing agent.



RYLSTONE

A high quality, semi-dry cast stone product suitable for most applications. An extremely viable alternative to natural stonework, particularly where financial considerations are paramount. Available in a variety of colour options.



RYLSTONE WET CAST

A premium quality wet cast range, produced in a stunning variety of shades and textures will grace the most prestigious of buildings.



STANDARD COMPONENTS

and CAD services

cills jambs mullions heads label moulds quoins
balustrades oriel window surrounds corbels
door surrounds string courses plinths ashlar
blocks gable vents date and name stones
porticos copings spheres column encasements

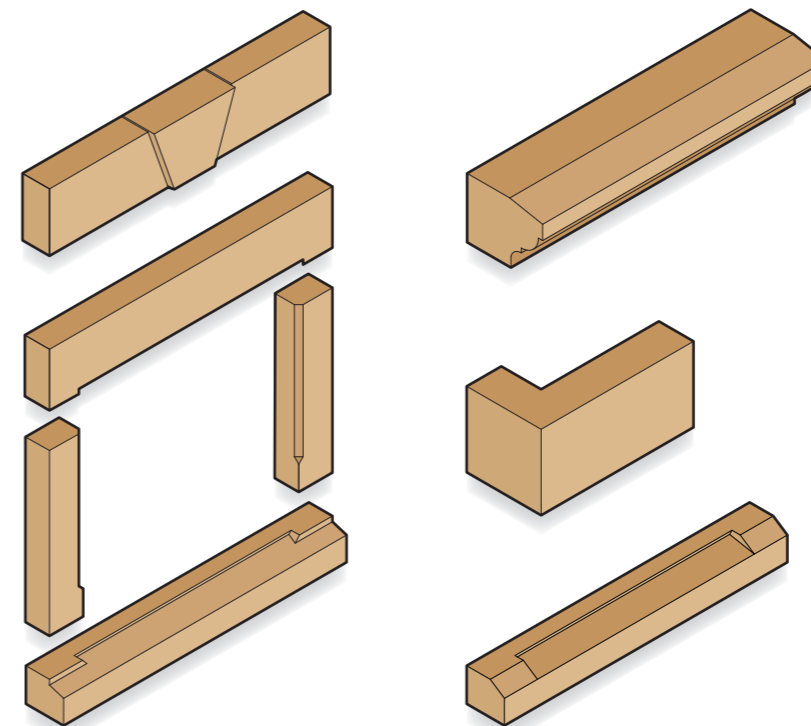
Extended lead times and the possibility of costs running over budget continue to plague even the best managed projects.

In answer to this problem we have taken positive steps to allow the user to specify Rylstone products in complete confidence.



The Rylstone range is now available as standard coded components - a range that retains flexibility within a project whilst ensuring reduced lead times and the most cost effective solution time and time again.

Alternatively, our advanced CAD service is available to provide practical and innovative design suggestions for bespoke components, fully costed to exact customer specifications. The ultimate service in adding individuality into a project and presented in a professional uncomplicated style.



PROFESSIONAL SERVICES

If you are currently considering project design applications, call our technical staff on 01924 404045 to find out how we may help.



BAND COURSES

standard components

Our popular standard Band Course profiles and walling blocks serve to enhance the appearance of even the most prestigious of buildings.

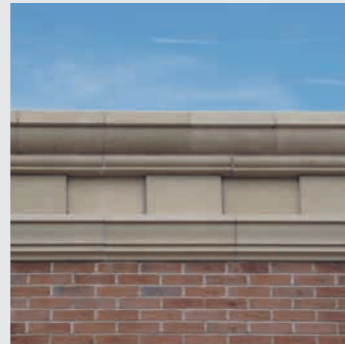
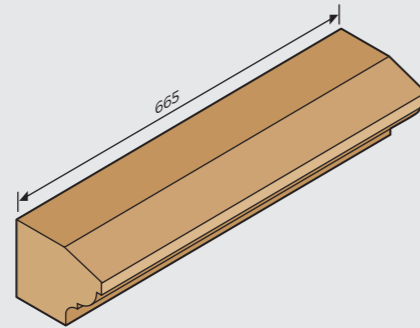
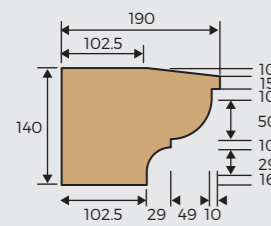
WALLING BLOCKS

and quoins

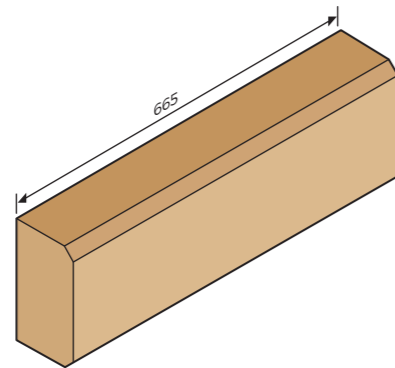
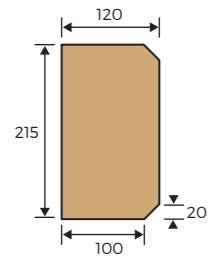
We carry bulk stockholdings of some of these products, saving time and money for our customers.



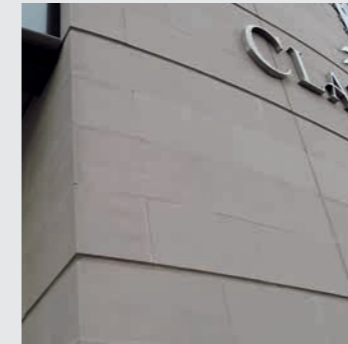
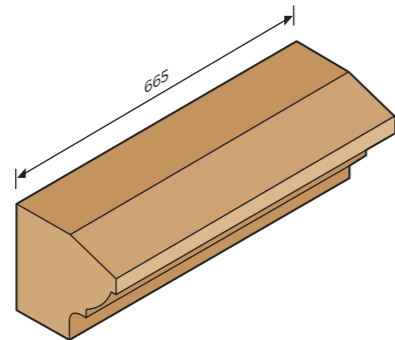
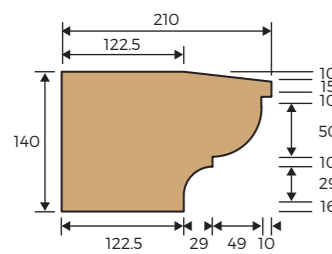
R. BC. 1 Band Course



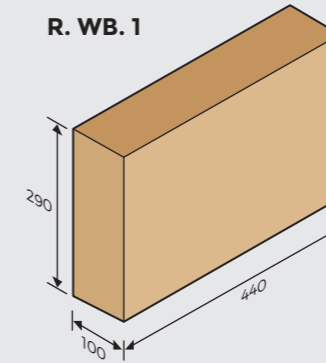
R. BC. 2 Band Course



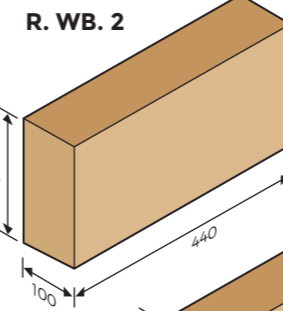
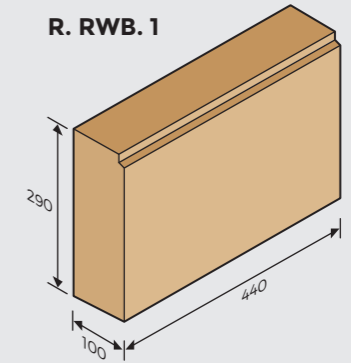
R. BC. 3 Band Course



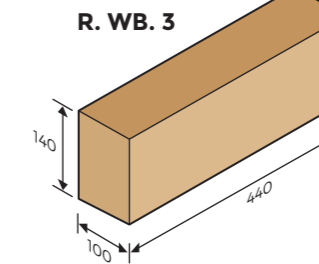
R. WB. 1



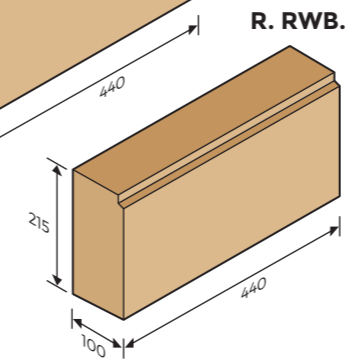
R. RWB. 1



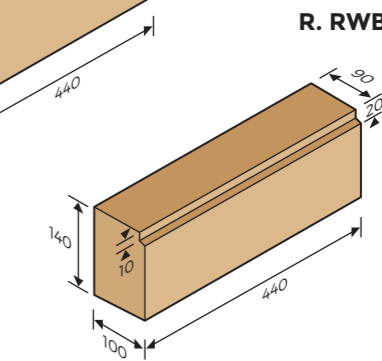
R. WB. 2



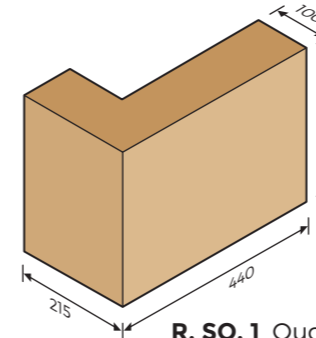
R. WB. 3



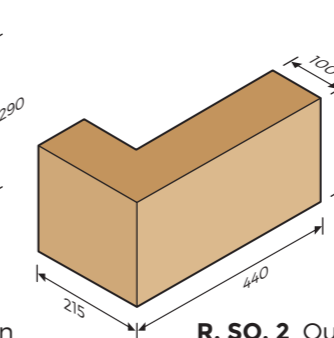
R. RWB. 2



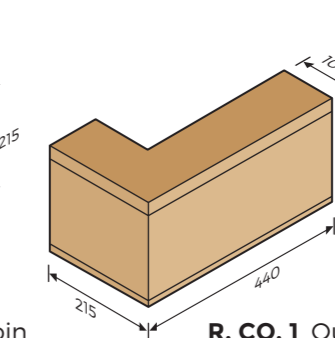
R. RWB. 3



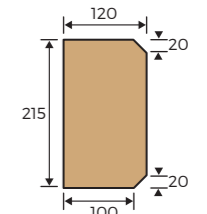
R. SQ. 1 Quoin



R. SQ. 2 Quoin



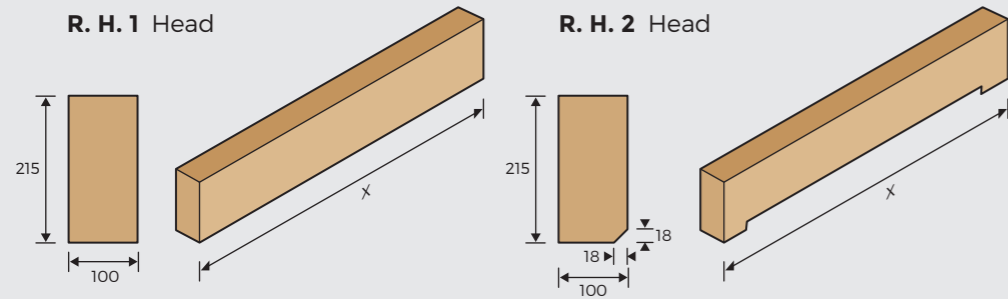
R. CQ. 1 Quoin



HEADS AND CILLS

standard components

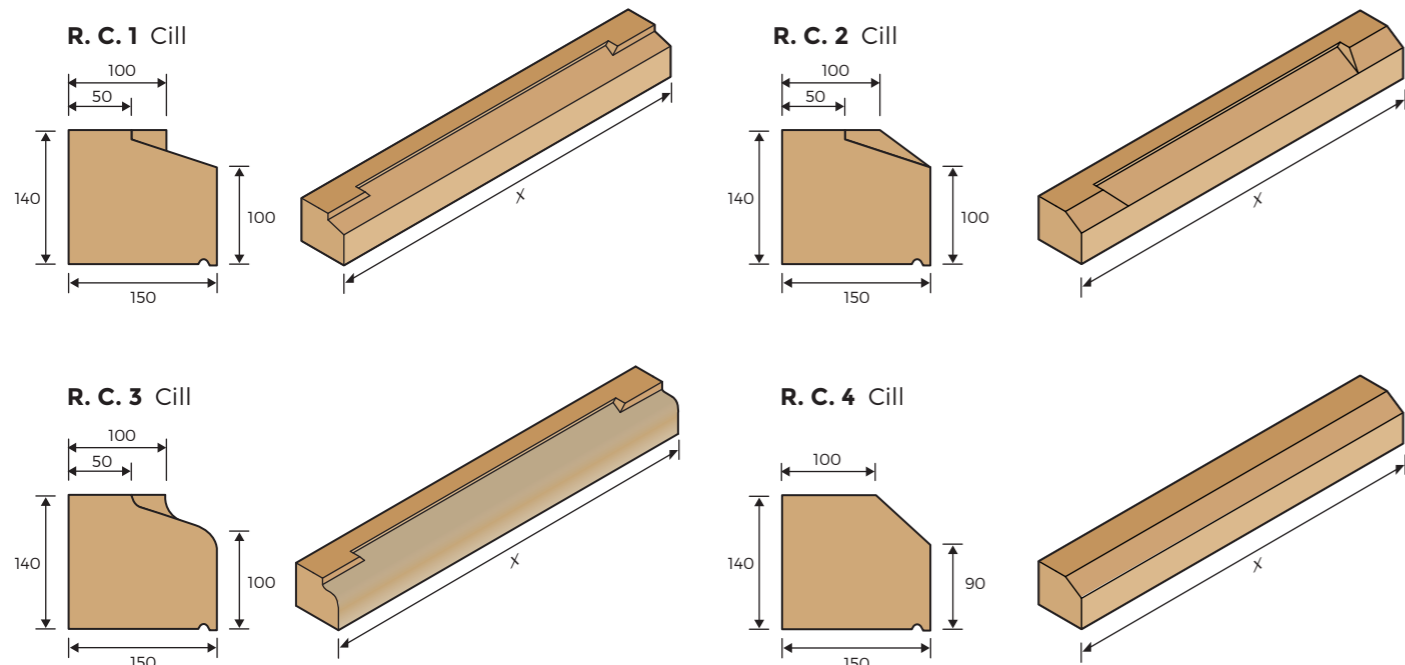
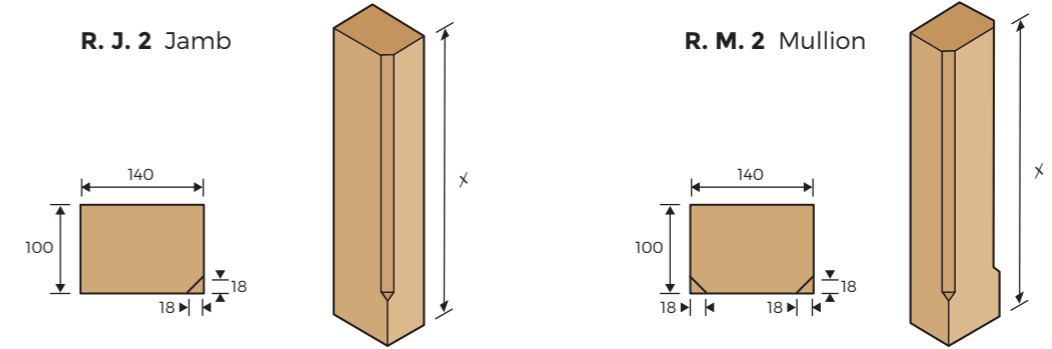
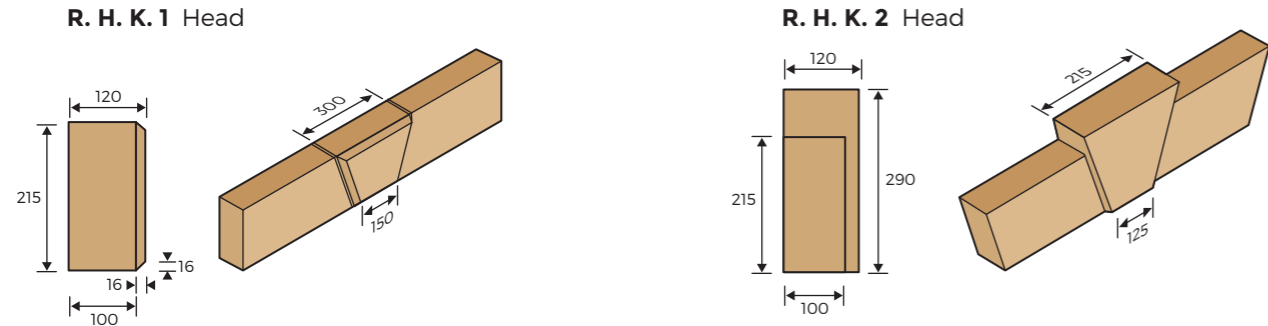
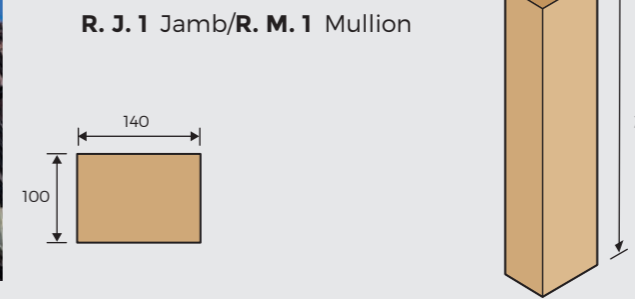
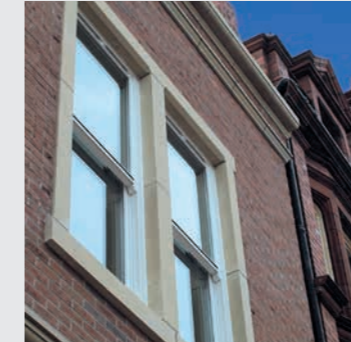
Maximum length (X) in one piece = 1500mm
 Stooling length varies - 100mm or 150mm
 All units are reinforced for handling only.



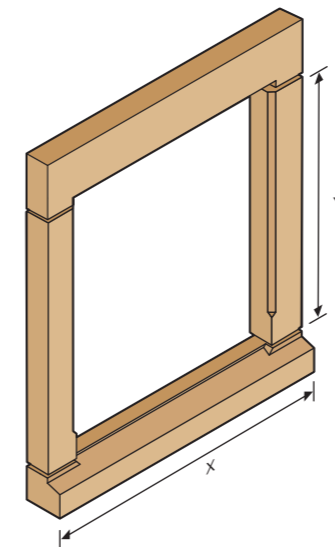
JAMBS, MULLIONS

and window sets

Maximum length (X) in one piece = 1400mm
 All units are reinforced for handling only.

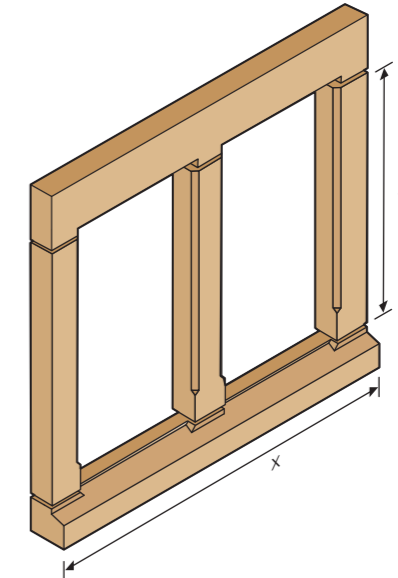


R. SLW. 1 Single Light Window



R. C. 1 Cill
 R. H. 2 Head
 R. J. 2 Jamb

R. TLW. 1 Two Light Window

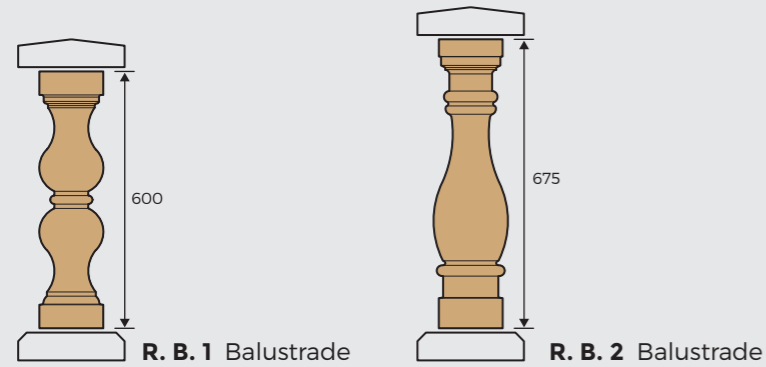


Maximum length (X) in one piece = 1500mm
 Maximum height (Y) in one piece = 1400mm
 All units are reinforced for handling only.

R. C. 1 Cill
 R. H. 2 Head
 R. J. 2 Jamb
 R. M. 2 Mullion

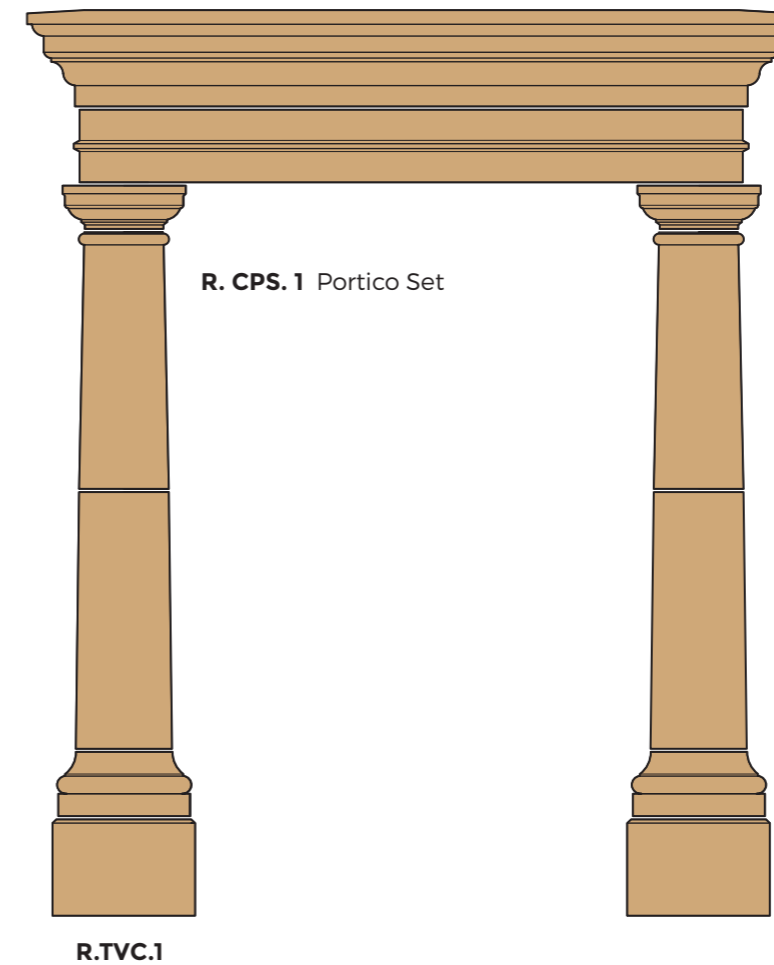
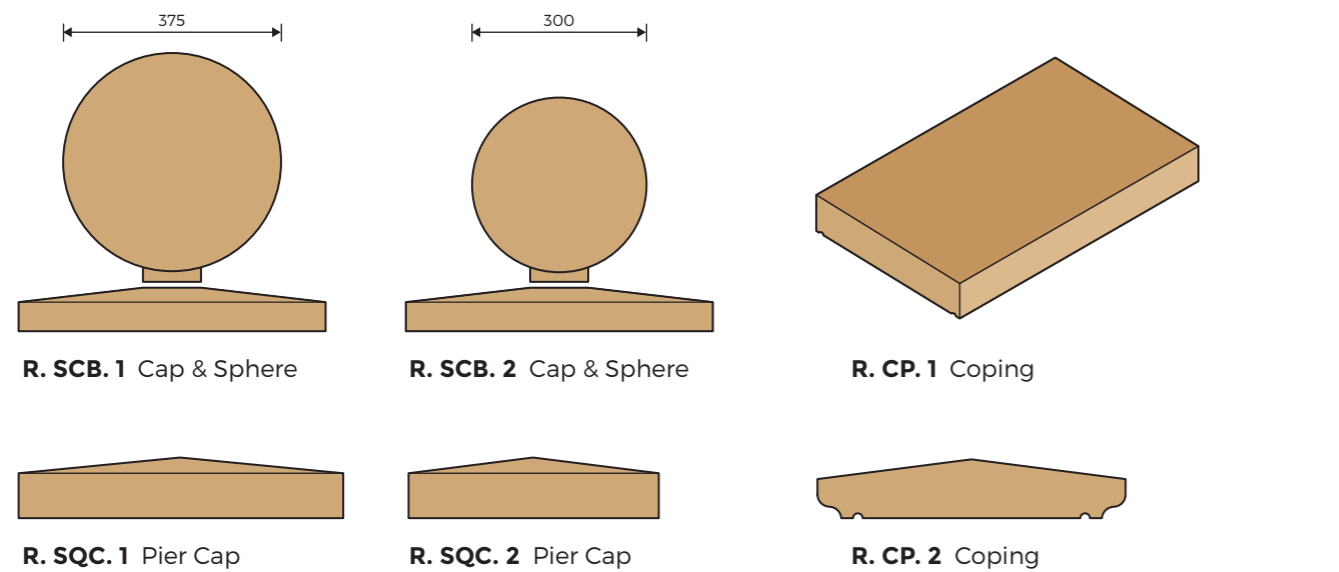
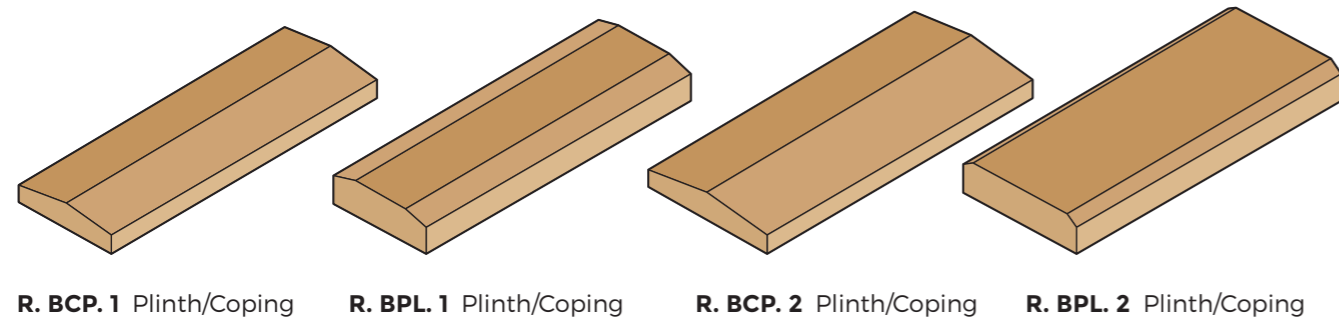
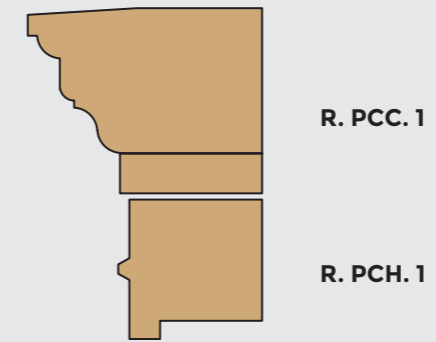
BALUSTRADE SETS, spheres, caps and copings

Our balustrades, wall cappings and copings are beautifully crafted while remaining extremely cost effective and straightforward to install.



PORTICO SETS and columns

We produce a range of portico designs, to suit both budgetary and aesthetic needs. We also advise upon fixings, handling, weathering and installation. Suitably selected and installed, Rylstone porticos will ensure enviable beauty and value.

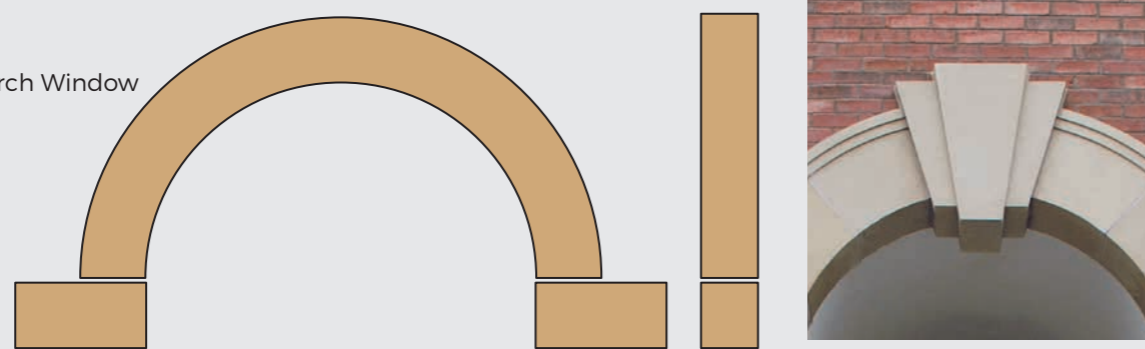


WINDOW FEATURES

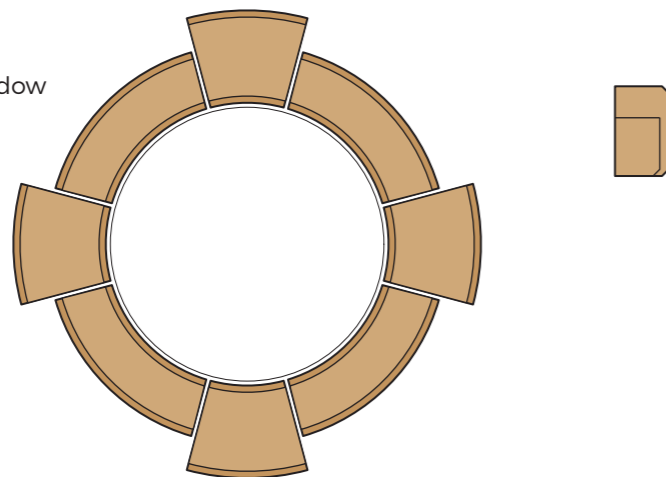
standard details

Modern building methods allied to cost constraints, can mean that all too often, there is a reluctance to include these stand out items.

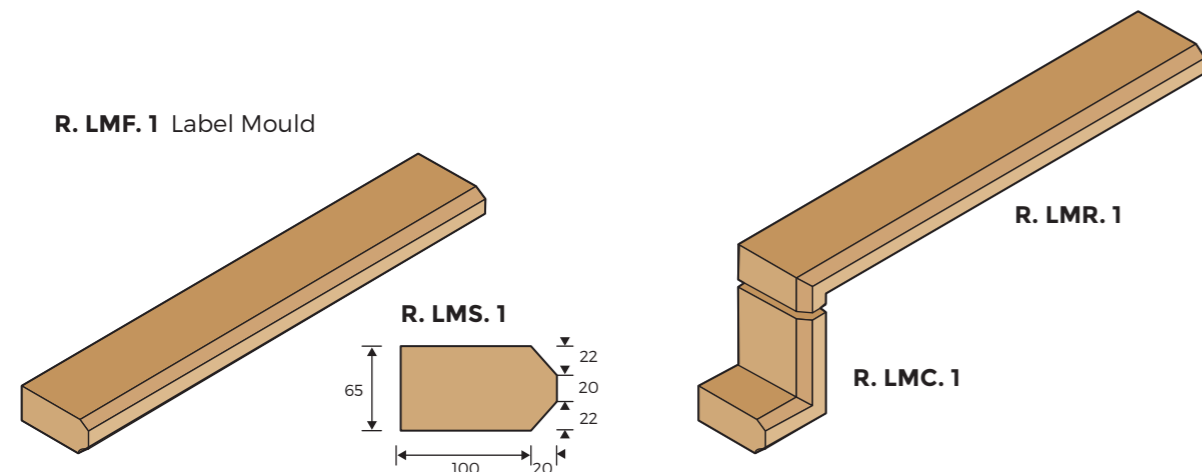
R. AWF. 1 Arch Window



R. OWF. 1 Oriel Window



R. LMF. 1 Label Mould



FEATURE STONES

standard details



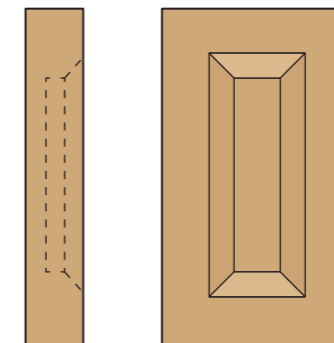
R. CC. 1 Corbel



R. CC. 2 Corbel



R. G. 1 Gable Vent



R. NS. 1 Name Stone
R. DS. 1 Date Stone



GALLERY

GB Architectural Cladding Products Ltd manufacture a comprehensive range of Cast Stone masonry units available in a choice of several colours.



Excellence in architectural cast stone



SPECIFICATION

All Cast Stone units are manufactured by blending selected aggregates with Portland cement and colourfast UV stable iron oxide pigments. Production uses pneumatic compaction to produce dense, compact units with a clean consistent appearance.

The following data is applicable to all Cast Stone (Rylstone) components manufactured by GB Architectural Cladding Products Ltd.

TECHNICAL SPECIFICATION

Appearance:	Available in a variety of colours. Similar to sawn ashlar natural stone
Composition:	All naturally occurring aggregates, cementitious binders and iron oxide pigments comply with their relevant British or European Standards.
Manufacture:	All Cast Stone products are manufactured in our quality-controlled factory by skilled craftsmen. Ample storage space is provided to allow for optimum curing.
Technical specification:	To BS:1217:2008
Compressive strength:	>25N/mm ² Cubes are tested daily and tested at 28 days. Cube size – 100mm x 100mm
Gross density:	c2000kg/m ³
Reaction to fire:	Euro class A1
Water absorption by capillarity:	<1.0mg/mm ² (CAT test)
Moisture movement:	0.17mm/m
Weathering:	All components are manufactured using a single part, through coloured mix design. All mixes contain a high performance waterproofing agent, this significantly reduces water absorption and reduces face weathering through atmospheric pollution.
Handling reinforcement:	All units are decorative only and classed as non-structural. In some cases, handling reinforcement will be introduced in accordance with BS:1217:2008.
Thermal properties:	None declared.
Presentation:	Self contained packs, heat wrapped with corner protection and waterproof pallet identification cards.
Tolerances:	Up to 600mm +/- 2mm 601mm > 1000mm +/- 3mm 1001mm > 2000mm +/- 4mm

COLOUR PALETTE

Bespoke colours and sampling are also available upon request.



TECHNICAL and design guidance



The Rylstone range of products comply with the cast stone requirements of BS1217:2008. Whenever cast stone is employed as an external facing medium we would strongly recommend that due consideration is given to the following:

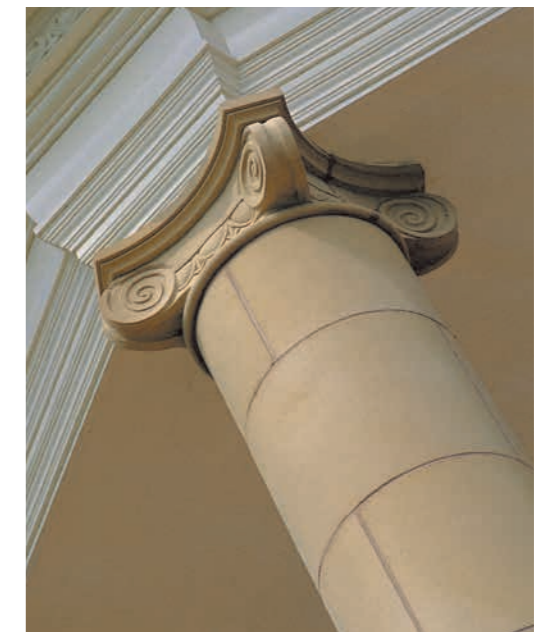
1. BS5628:Part 3: 1985: Code of practice of use of masonry, materials and components, design and workmanship.
2. BS8000:Part 3: 1989: Workmanship on buildings.
3. All other relevant building and British Standards.

TECHNICAL

Generally units produced over 1500mm in length will be manufactured in sections, however on occasions this requirement can be negated by the use of lifting loops or eyes. Again this is best achieved with expert design assistance from our dedicated team of specialists. The same team will also be pleased to provide in depth assistance regarding fixing details which professionals can check and approve.

Generally all heads should be fully bedded on mortar on a secondary structural lintel. One piece stooled cills should be fully bedded under the stool, with the remainder of the bed merely pointed upon completion. Slip cills and stooled cills sections should be fully pointed.

Movement joints and mortar specification should be in accordance with BS5628:Part 3.



DESIGN

Consideration should be given to areas where cast stone is used in conjunction with other masonry materials i.e. clay or natural stone. Consideration should also be given to the material characteristics and performance of the different mediums.

All design assistance given by GB is provided in good faith, however it is vital project professionals validate its acceptability as often design considerations other than specific to the cast stone can have an influence on the suitability of the fixings design.

SITE SPECIFIC and general guidance

Our Rylstone products are manufactured to the most stringent of quality standards to ensure maximum durability and suitability for purpose. Following the simple guide to good site practice will help you to achieve the best possible results.



UKCSA

GB Architectural Cladding Products are a long established member of UKCSA, offering quality through transparency.

The United Kingdom Cast Stone Association (UKCSA) is the guardian of quality for cast stone, representing the UK's leading manufacturers. UKCSA sets high performance standards, exceeding BS:1217 supported by rigorous testing and quality control, with all members having to meet strict vetting procedures.

Our commitment to UKCSA assures our customers that the quality of our products and services conforms to the highest standards, providing credibility and prestige.



SITE SPECIFIC

UNLOADING AND STORAGE

Always unload palletised deliveries of Rylstone using forks and not slings, scaffold poles, etc.

Store pallets on flat level dry ground away from other trades and busy site areas. Remember pallets should never be stacked.

Always cover opened pallets of Rylstone to protect from weathering and general site grime.

INSPECTION AND PACKAGING REMOVAL

Always check new deliveries as soon as possible for quality and quantity. Do not remove packaging prior to use as goods may be damaged during subsequent movement on site.

Remove protective shrink wrapping carefully with appropriate cutting device. Do not pull at the wrapping as heavy gauge polythene will abrade edges. Dispose of all packaging sensitively.

GENERAL

When stacking Rylstone units, always use an interface material such as polystyrene to protect faces. Interior packaging should be re-used to safeguard the product from on site damage.

Similarly, protect installed units with heavy gauge polythene or other packing material. Detailing should be protected by boxing in with plywood or other suitable materials.

GENERAL

EFFLORESCENCE AND COLOUR

Concrete products may suffer from the phenomenon of efflorescence. This is in no way detrimental to the performance of the material and responsibility cannot be accepted for its occurrence. Naturally occurring aggregates are utilised in GB Rylstone and as such slight variations in colour, texture and shading may occur. Colour choice should be made from actual product samples and not photographic representations herein.

ADVICE

Whilst every effort is made to ensure the accuracy of written or verbal advice, the information is given on the terms that no liability of any kind, including liability for negligence, will attach to GB Architectural Cladding Products Ltd or its servants or agents arising out of or in connection with any advice or information so given.

CONDITIONS OF SALE

Any goods supplied are subject to GB Architectural Cladding Products Ltd standard terms and conditions of sale, copies are available upon request.

The evolution of design and products is continuous and information is subject to change without prior notice. Customers should check with the supplier to ensure that they have the latest details.

DELIVERY AND LOGISTICS

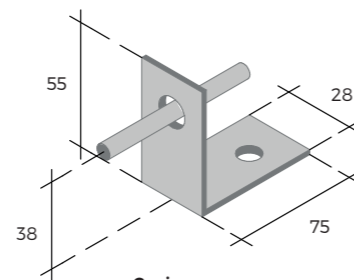
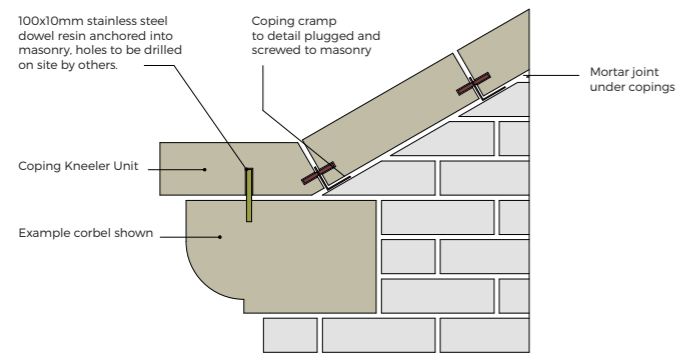
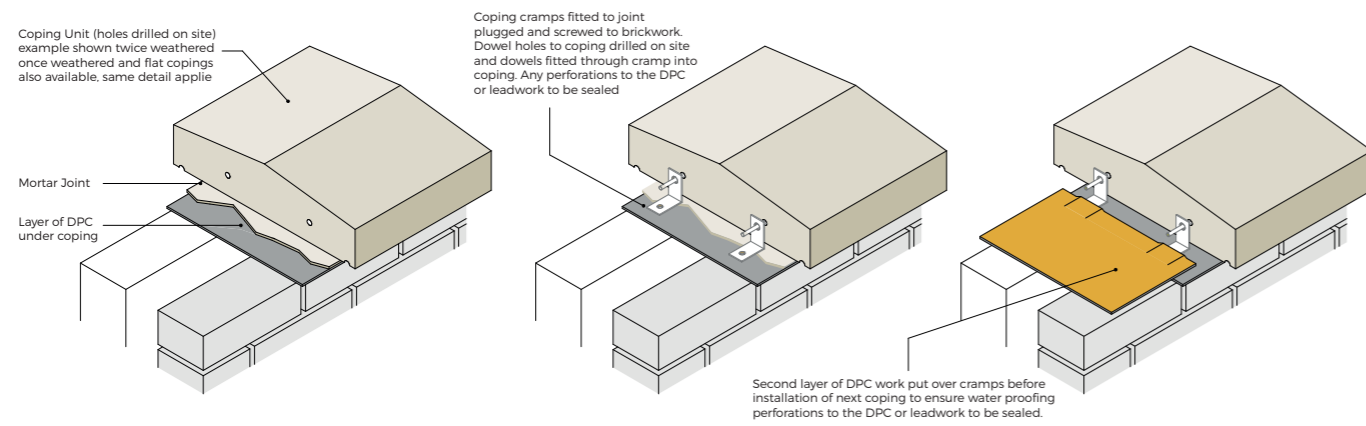
All deliveries are made on our own fleet of purpose designed flat bed rigid vehicles. Double axis wagons allow bed space to be maximised and air-controlled suspension safeguards the product right through to offloading.

Dedicated loads critically avoids multiple handling of cast stone products with quicker and controlled targeted delivery dates.

CASTSTONE INSTALLATION

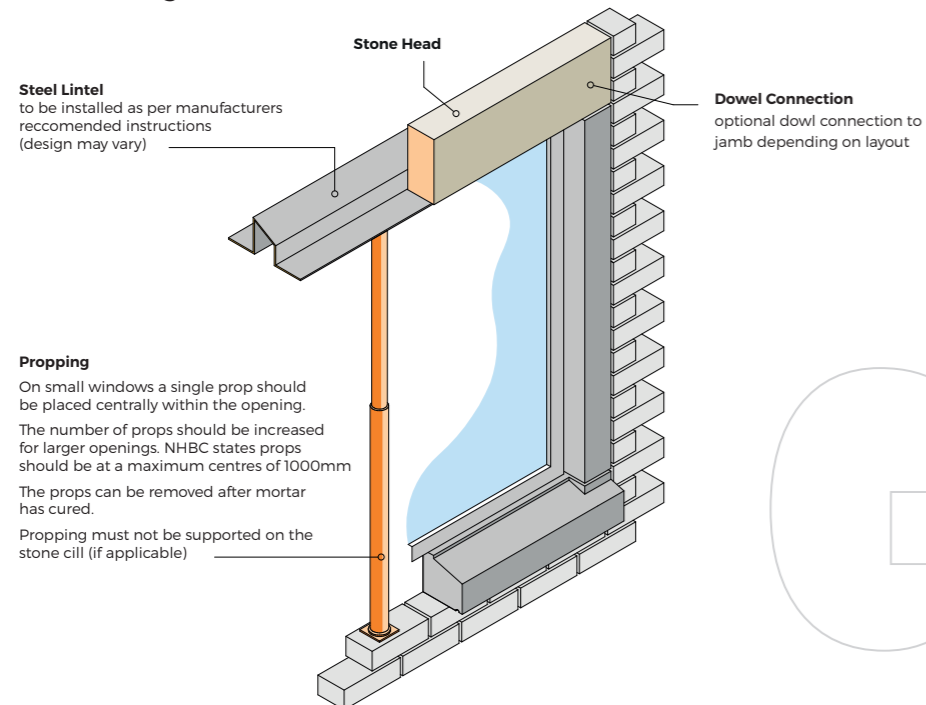
guidance

Coping Cramp Fixing

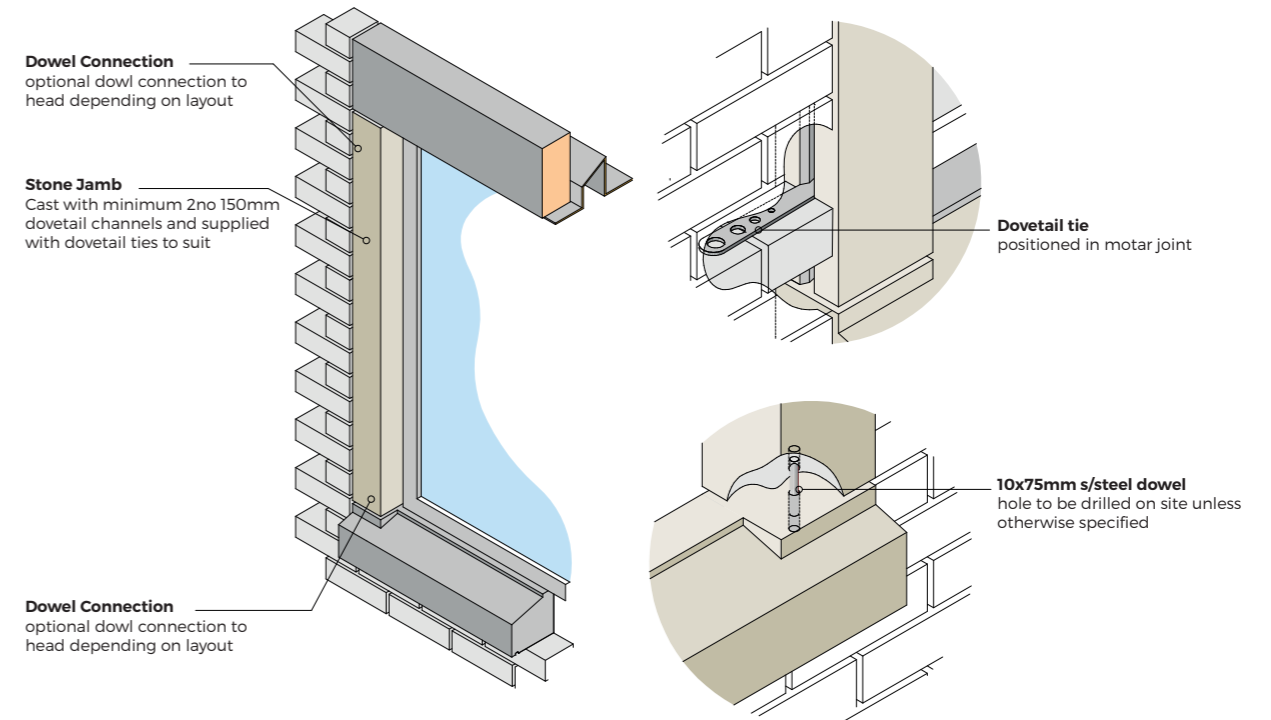


Coping cramp
supplied with 6x60mm loose dowel, screw and plug on site

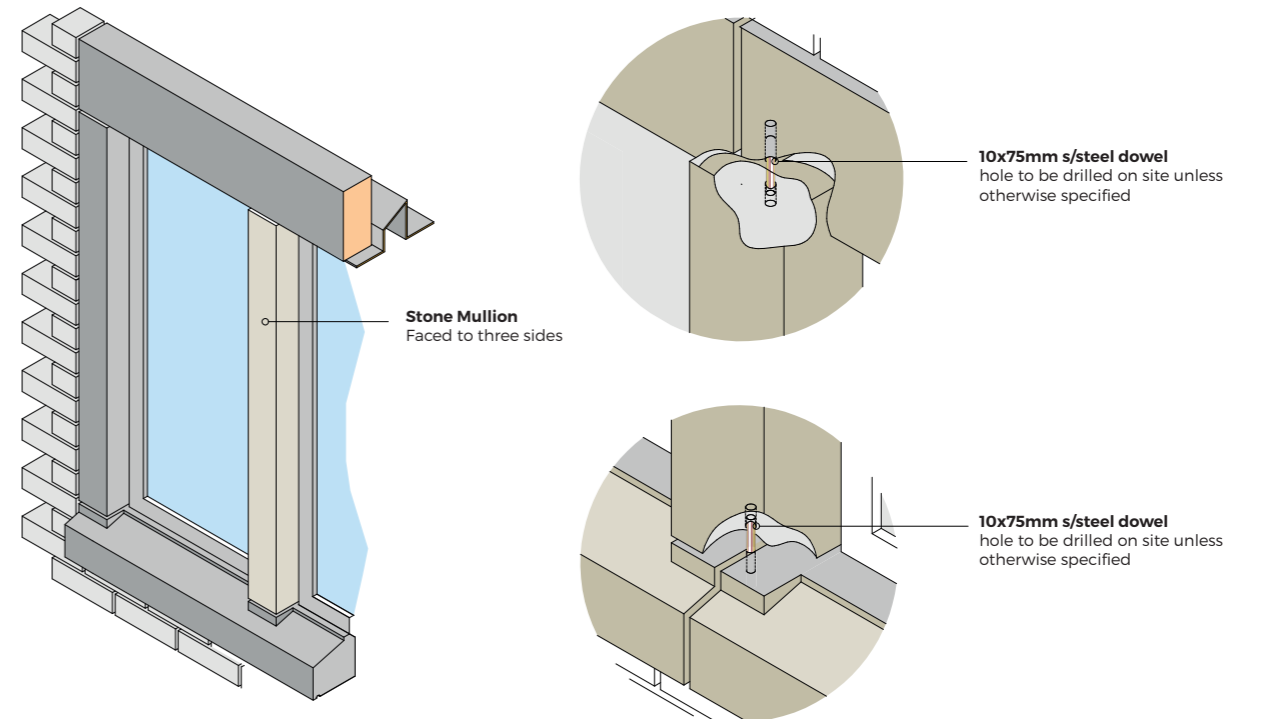
Head Fixing Detail



Jamb Fixing Detail



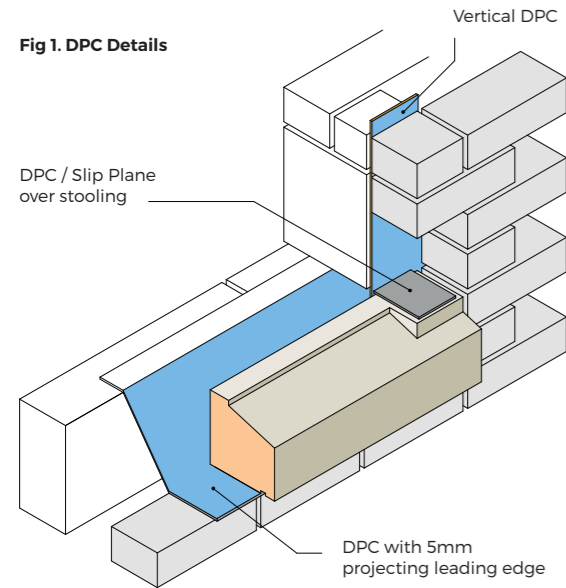
Mullion Fixing Detail



CASTSTONE INSTALLATION

guidance

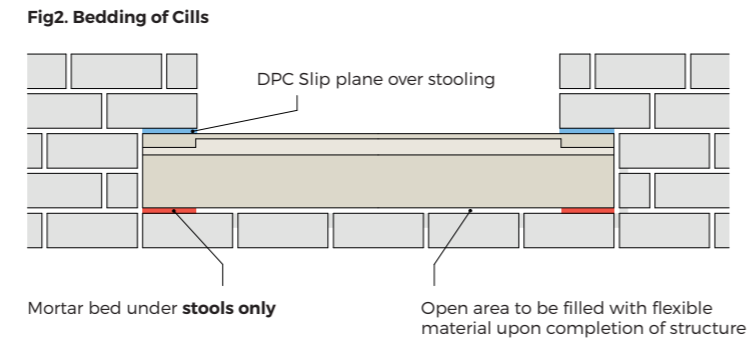
Bedding and Installation of Cills



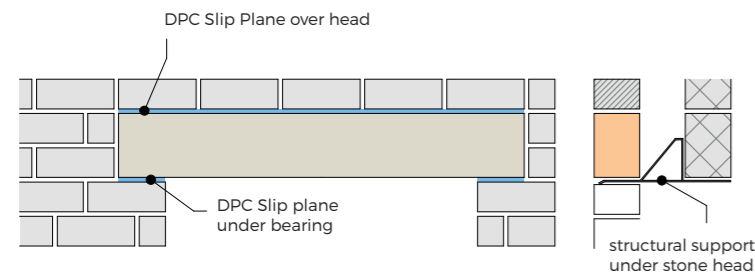
All cast stone cills should be installed in accordance with BS 5628-Part 3

DPC & Cavity Tray
A DPC the full length of the cill unit and the width of the cill bed should be installed as shown. The DPC should be overlapped by a vertical DPC at the jambs and a slip plane should be formed over the stooling of the cill to prevent cracking.

Bedding of Stooled Cills
To prevent cracking we recommend that stooled cills are only laid on top of the DPC with mortar below the stooling part of the cill. This is to allow differential settlement and thermal movement. The then open section of joint can be sealed with a flexible material on completion of construction (on scaffold remove and clean down)



Bedding and Installation of Heads

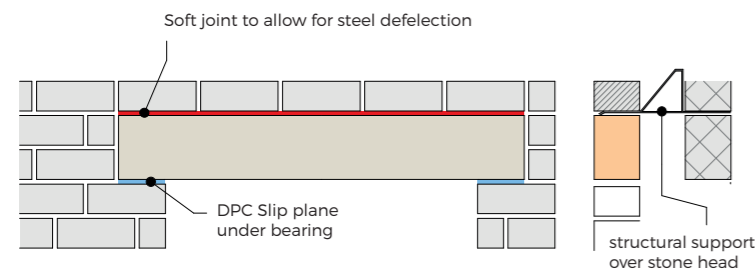


All cast stone heads should be installed in accordance with BS 5628-3. Unless previously agreed and reinforcement details provided all heads should be treated as non-loading bearing and as such appropriate structural support should be provided to carry any loads.

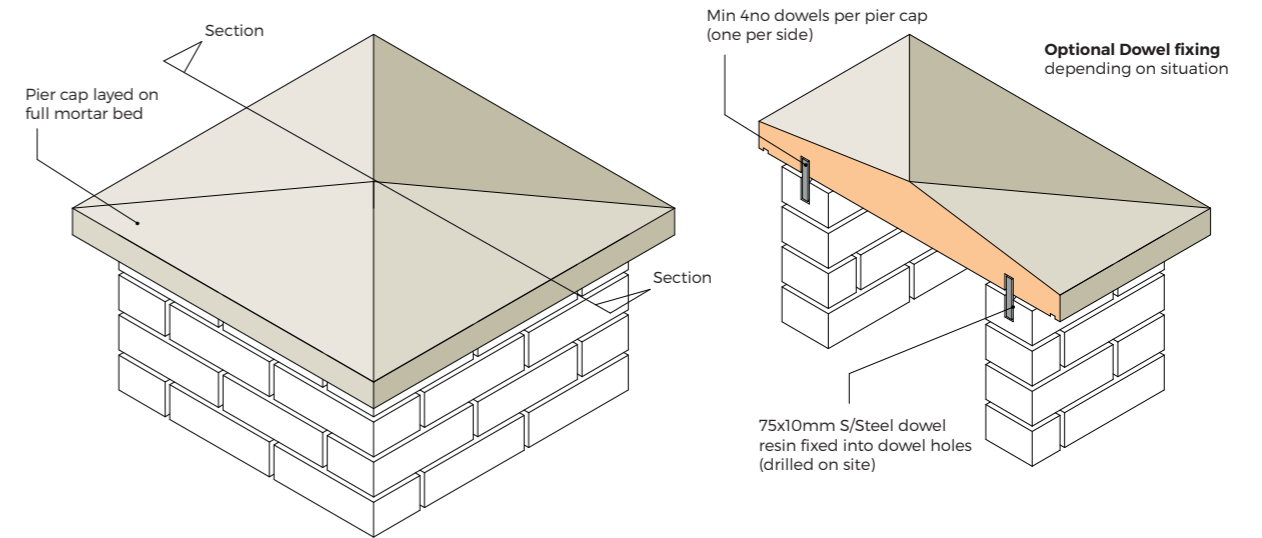
One piece and multi stone head units will require support from a steel lintel (FIG 01) this lintel should be installed as per the lintel manufacturers instructions.

Single head units are self supporting and will require a steel lintel which is longer than the head above to transpose the masonry load from above.

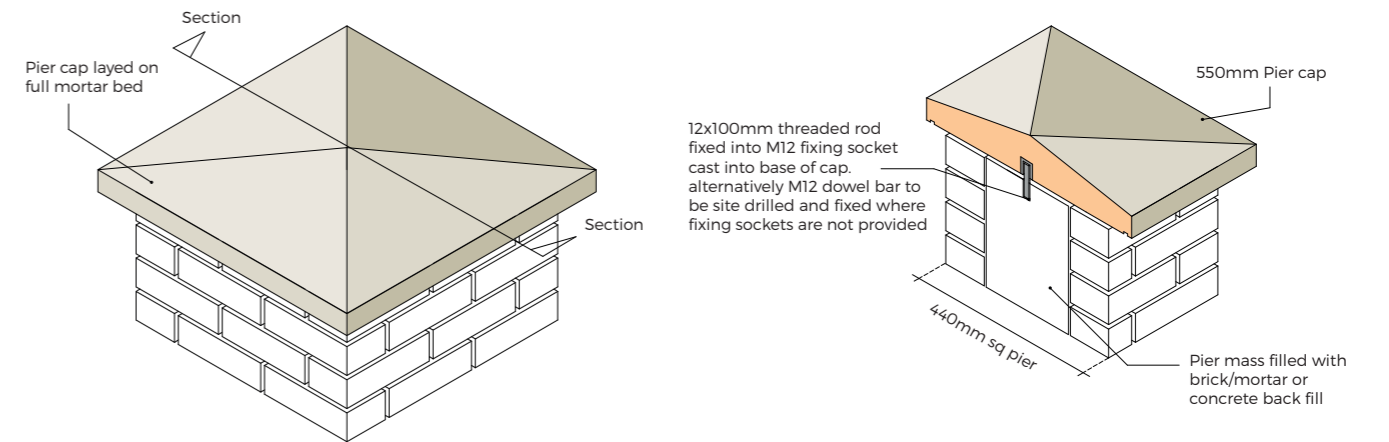
It is important to provide a waterproof barrier over all the heads and discharge any water to the outside of the masonry as such cavity trays should be installed above the stone which will also act as a slip plane.



Installation of Pier Cap



Installation of Pier Cap - Small Caps



GB

architectural
cladding products ltd

Excellence in **architectural cast stone**



For further information contact our sales team at:

Spn Valley Works, Carr Street
Liversedge, West Yorkshire WF15 6EE

t: **01924 404 045**

e: **enquiries@gbarc.co.uk**

w: **grc-gbgroup.co.uk**

Trusted by professionals for over 30 years

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