

Uniclass L9:P12	EPIC X12
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February 2006



# Meadowstone

ARCHITECTURAL BUILDING MATERIALS

## Product Guide 2006

BESPOKE • STOCK RANGE • BLOCKS & QUOINS • M-STONE • GRCS • WET CAST







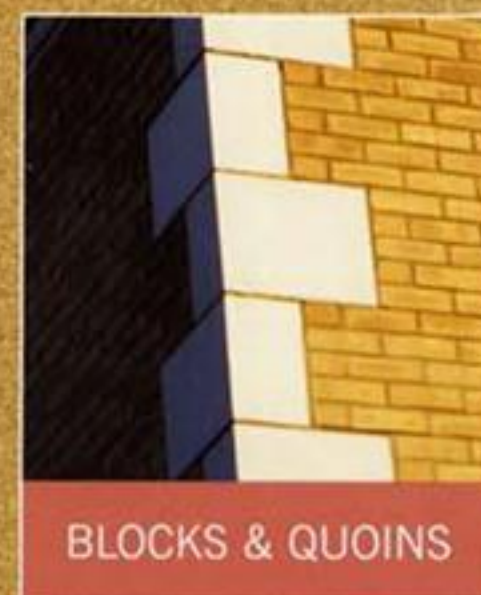
*"Through total commitment to quality and customer service, we aim to excel as the UK's leading supplier of cast stone products."*



A comprehensive service for specially commissioned items.



Standard cast stone products generally available from stock for quick delivery.



High quality machine made products available in a choice of sizes and colours.



A new product combining the appeal of cast stone and the performance of wet cast concrete.



A range of strong lightweight products including door surrounds, cornices and copings, heads and cills.



Including manufacture of structural components such as columns and beams.

## Quality & Service

Meadowstone has grown to become the UK's leading cast stone manufacturer, providing customers with top quality products and outstanding personal service.

To remain the best, we are dedicated to a policy of continuous improvement and all our handmade products are manufactured to BS 1217:1997 and regularly tested to ensure optimum performance.

## Technical Support

We have a team of qualified CAD technical experts to provide the best advice and help you exploit the full potential of cast stone to ensure the most cost-effective solution.



## Refurbishment & Restoration

Our highly skilled designers have the expertise to make intricate and complex mouldings from original designs for use in the renovation of historic or architecturally sensitive buildings.

Such is our experience in this field that many leading architects and contractors come to us for advice when planning major cast stone restoration projects.

## Manufacturing Capability

With two centrally located, purpose-built production units, Meadowstone has the manufacturing capability to handle projects of any size.

Major investment in specially designed, computer controlled facilities has ensured that we remain at the forefront of cast stone technology in terms of the strength, performance and durability of our products.





# Contents

Cast stone is versatile, cost-effective and readily available, and its use in contemporary architectural design has created some spectacular buildings. As the UK's leading cast stone manufacturer, Meadowstone supplies an extensive range of products and features for use in both residential and commercial schemes of any size.



Meadowstone is an accredited CPD provider (also available online at [www.meadowstone.co.uk](http://www.meadowstone.co.uk)).



Stock range available to buy online.



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With the capability to manufacture to architects' specifications for virtually any project, Meadowstone offers a complete bespoke service for cast stone and complementary architectural stonework. More than half of the Company's total production is dedicated to bespoke cast stone dressings.

Meadowstone has the capability to produce complex or ornate stonework to co-ordinate with individual structures. Alternatively, our in-house designers can produce special one-off designs for individual locations.



## Cast Stone - Bespoke

### Shades

As well as a wide range of the standard shades shown, we are also able to colour match with existing natural or cast stonework.



01 Portland



02 Bathstone



03 Yorkstone



04 Volterra



05 Cotswold



06 Ivory



07 White



08 Natural



09 Sandstone









Generally available from stock (in Bathstone), these standard cast stone products have been introduced to meet the rapid response requirements of today's house building market.

Also available is our complementary and exclusive landscape and interior Acanthus stoneware range which includes pools, balustrades, urns, fountains, temples and other ornamental features.

## Cast Stone - Standard Range

Meadowstone maintains a comprehensive library of existing moulds which can provide a quick and cost-effective solution to the supply of cast stone products.

Please contact our Sales Office for details.

# Cast Stone - Stock Range

## Shades

Bathstone items are usually available from stock.



02 Bathstone

## Shades available to order

Other shades are made to order, so please contact us for a current delivery period.



01 Portland



03 Yorkstone



04 Volterra



05 Cotswold



06 Ivory

*It is always advisable to check the availability of the components you require prior to placing your order.*

Colours are as close as the printing process will allow. Please request colour samples prior to placing an order.

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# Standard Cills

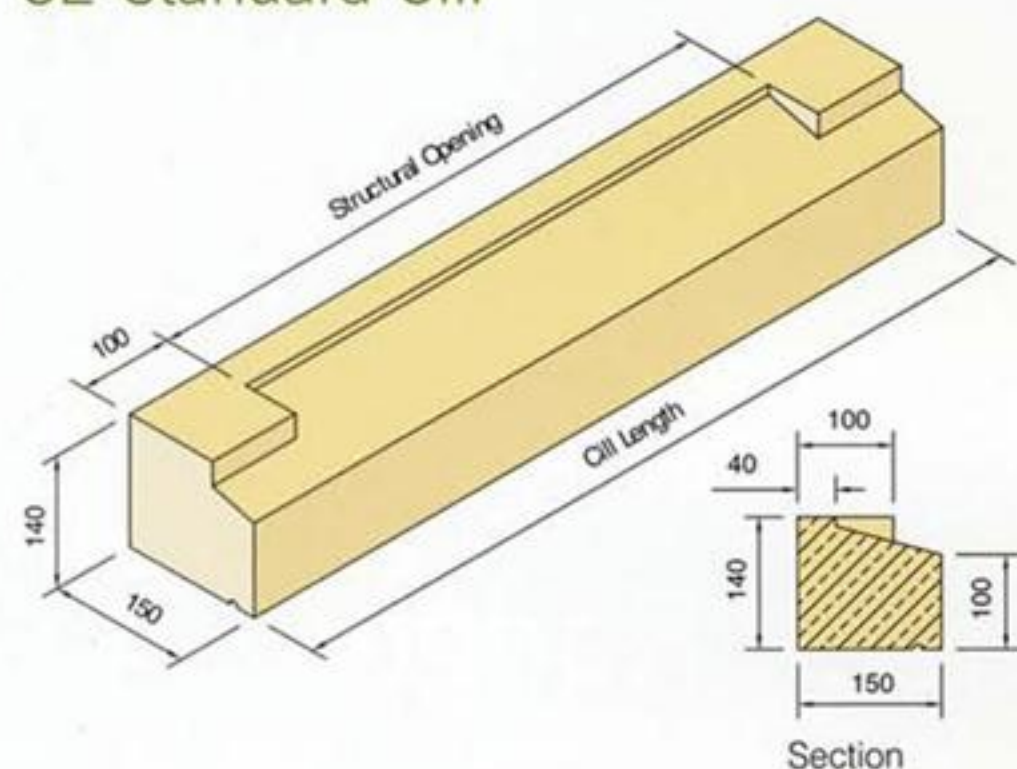
## Cill Protection

Due to the very nature of cast stone it needs to be handled with the utmost care on site. All Meadowstone products are protected and shrink-wrapped before and during transit, but once the packaging is opened they can be subject to the vagaries of different site conditions.

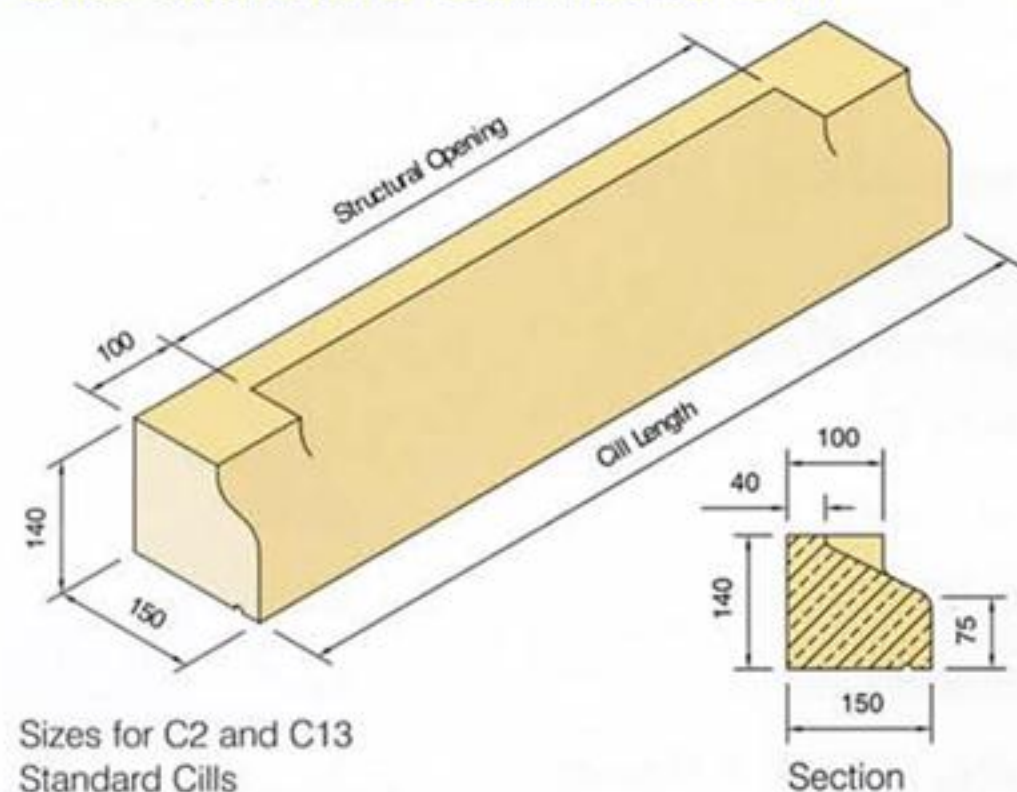
Heads and cills are the most vulnerable products on site and Meadowstone can now provide these products individually protected. This allows products to be delivered, stored on site and installed whilst the seen edges and faces are fully protected. Only when the plot is fully built is the protection removed, thus ensuring that no staining or impact damage occurs prior to handover.

Please contact our Sales Office for details.

## C2 Standard Cill



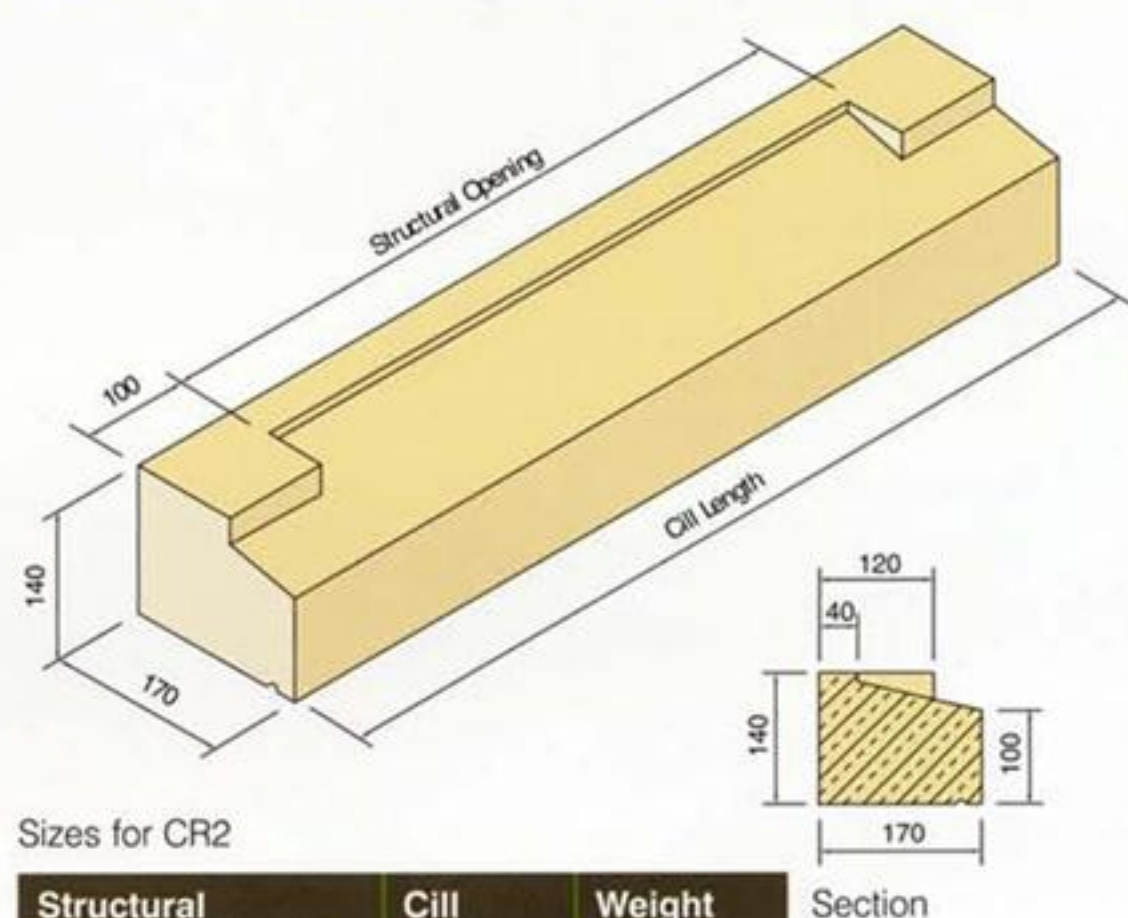
## C13 Standard Bullnosed Cill



Sizes for C2 and C13  
Standard Cills

Structural Opening	Cill Length	Weight C2 (kg)	Weight C13 (kg)
488	688	30	29
630	830	36	34
915	1115	47	44
1200	1400	58	54
1770*	1970*	84*	78* total
2339*	2539*	106*	98* total

## CR2 Standard Cill for rendered walls



Sizes for CR2

Structural Opening - 25mm	Cill Length	Weight (kg)
463	663	34
605	805	40
890	1090	55
1175	1375	70
1745*	1935*	98* total
2314*	2514*	126* total



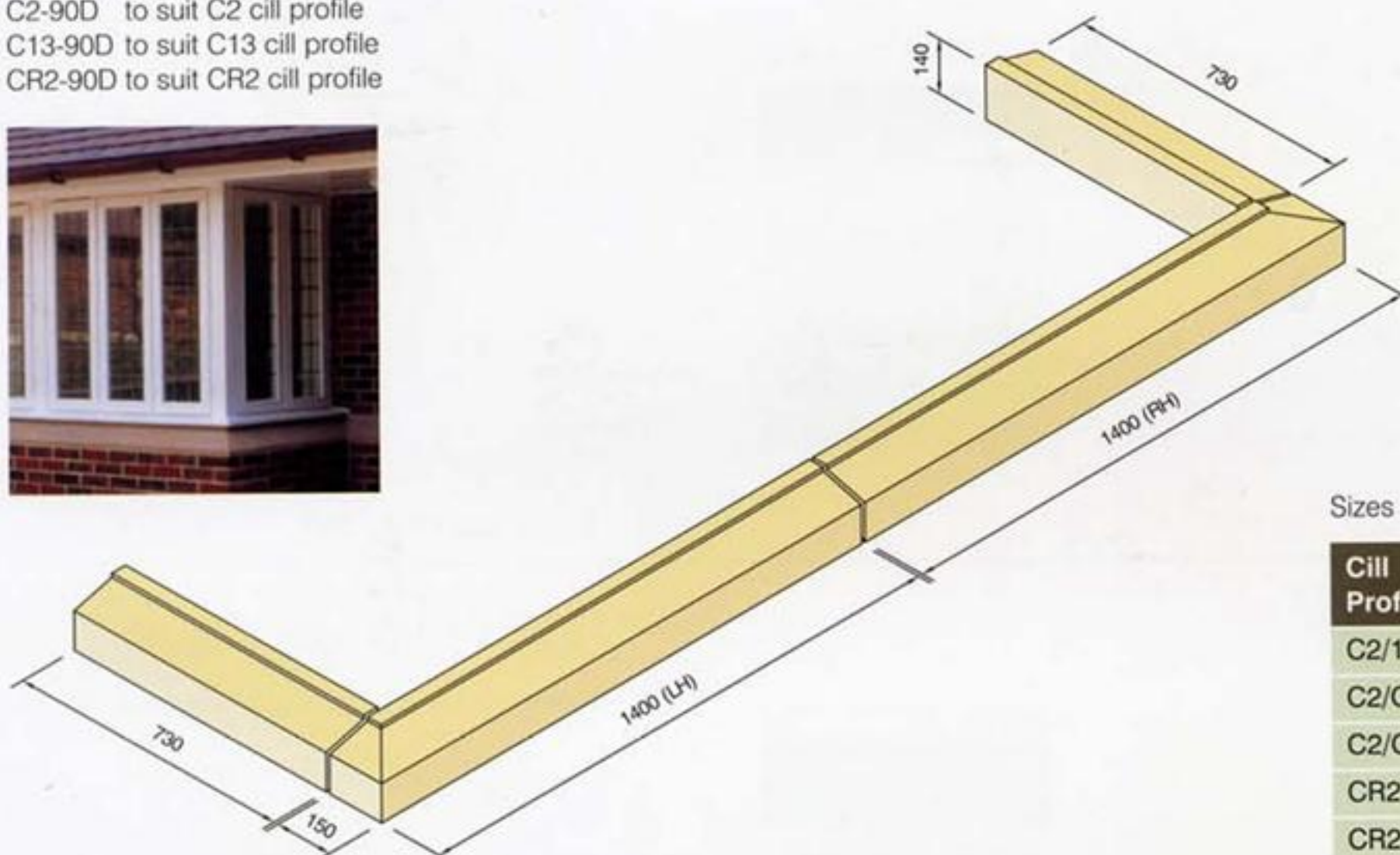
All cills are supplied with 100mm long stools. Weights are approximate. Cill lengths are manufactured to suit standard window openings. Non-standard sizes can be made to order. \*Cills over 1400mm long are supplied in 2 pieces with a 10mm perp joint. New moulds are required for C13 non-standard sizes.



# Bay Cills

## 90° Standard Bay Cill

C2-90D to suit C2 cill profile  
C13-90D to suit C13 cill profile  
CR2-90D to suit CR2 cill profile



Sizes for 90° Standard Bay Cills

Cill Profile	Cill Length	Weight (kg)
C2/13	730	28/26
C2/C13	1400(LH)	58/54
C2/C13	1400(RH)	58/54
CR2	730	37
CR2	1400(LH)	70.2*
CR2	1400(RH)	70.2*

## 45° Standard Bay Cill

C2-45D to suit C2 cill profile  
C13-45D to suit C13 cill profile  
CR2-45D to suit CR2 cill profile



Sizes for 45° Standard Bay Cills

Cill Profile	Cill Length	Weight (kg)
C2/13	800	31/29
C2/C13	1200(LH)	46/43
C2/C13	1200(RH)	46/43
CR2	800	40
CR2	1200(LH)	65
CR2	1200(RH)	65

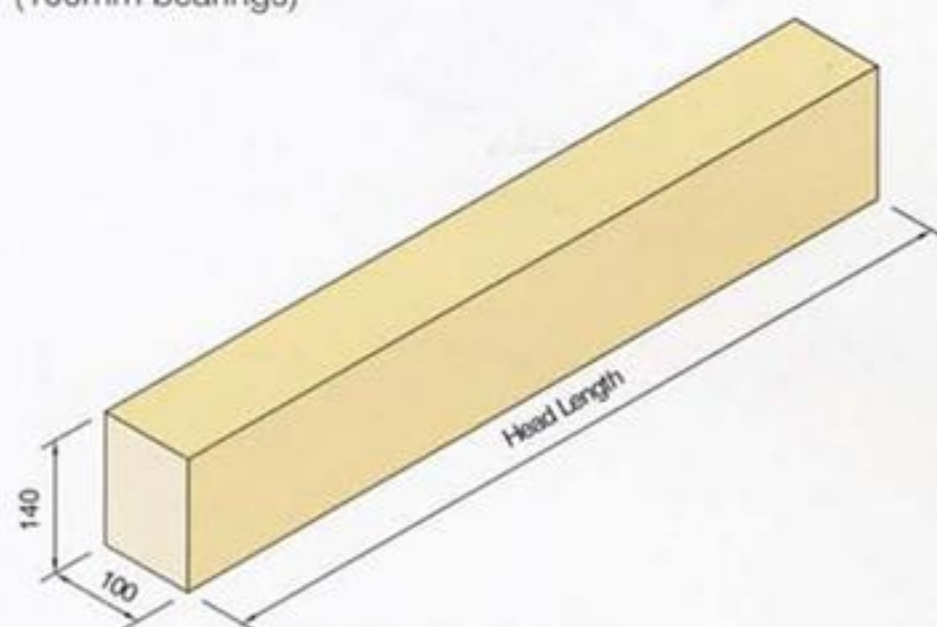
These bay sets can be cut to suit other bay window sizes, when ordering please state which profile is required.  
The recommended joint size in perp joints is 10mm.



# Decorative Heads

## H1 Plain Head

(100mm bearings)

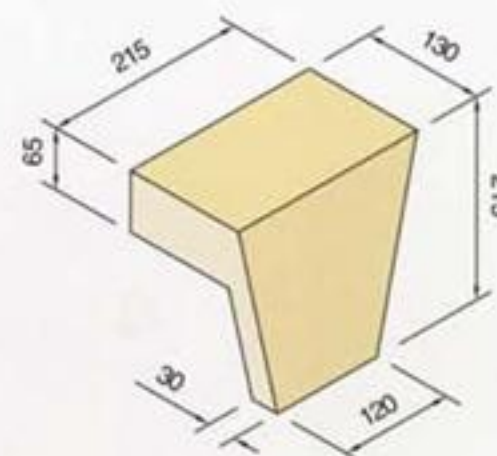


Sizes for H1 Plain Head

Head Length	Weight (kg)
688	20
830	25
1115	33
1400	41
1970*	58* total
2539*	76* total

## H1CK Clipover Keystone

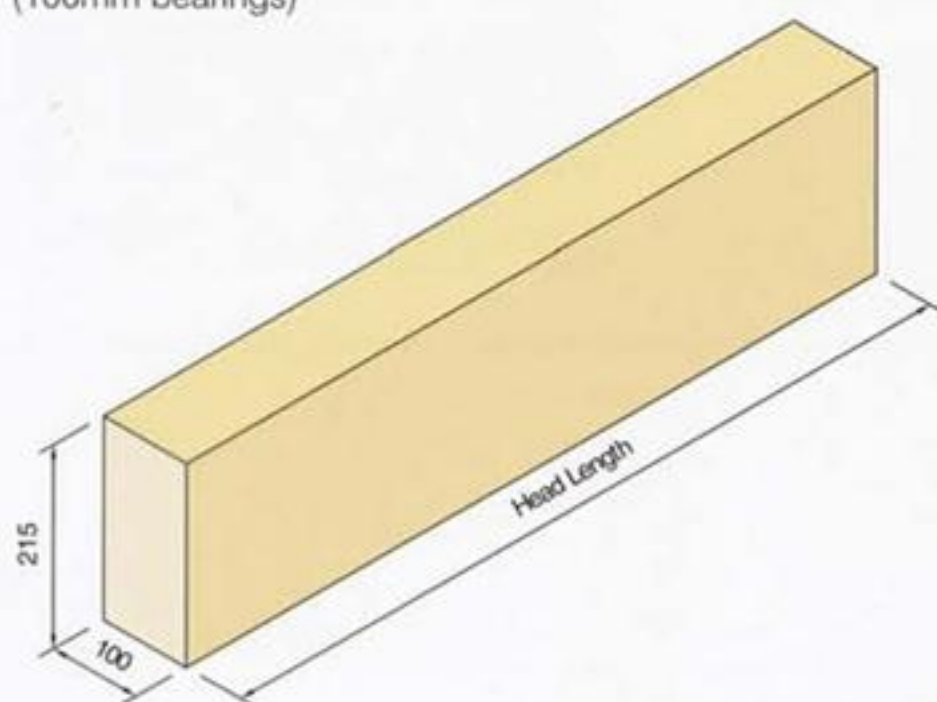
Converts H1 Head to Keystone Head



Approximate weight: 5kg

## H3 Plain Head

(100mm bearings)

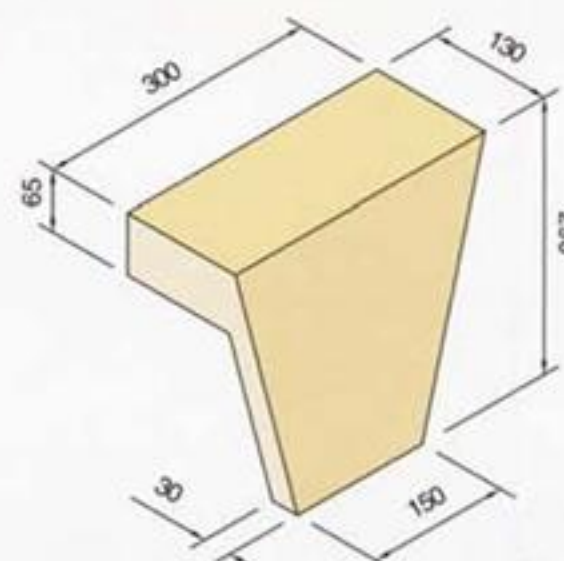


Sizes for H3 Plain Head

Head Length	Weight (kg)
688	31
830	38
1115	51
1400	64
1970*	90* total
2539*	116* total

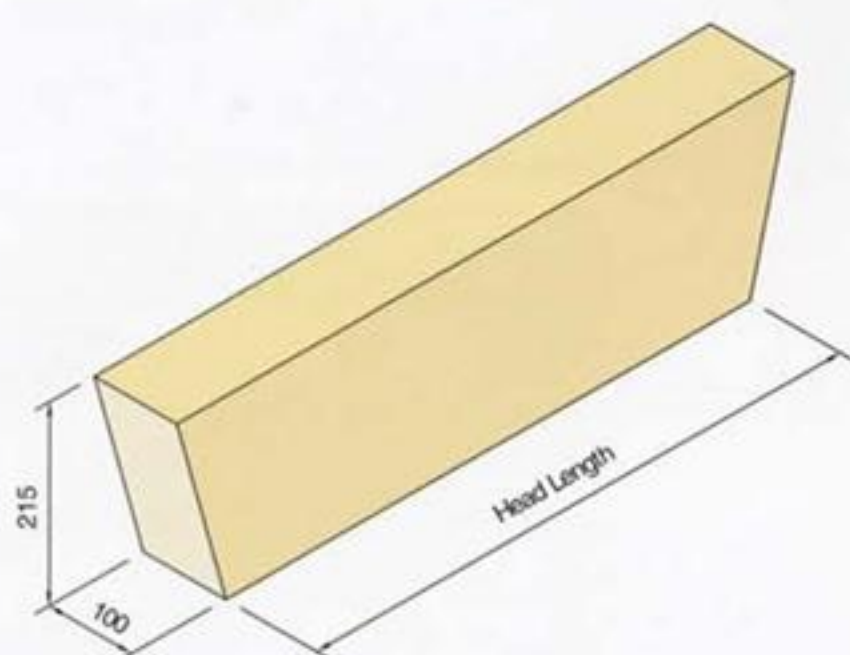
## H3CK Clipover Keystone

Converts H3 and HSH Head to Keystone Head



Approximate weight: 8kg

## HSH Feature Head



Sizes for HSH Feature Head

Head Length	Weight (kg)
488	24
630	30
915	43
1200	56
1770*	82* total
2339*	108* total



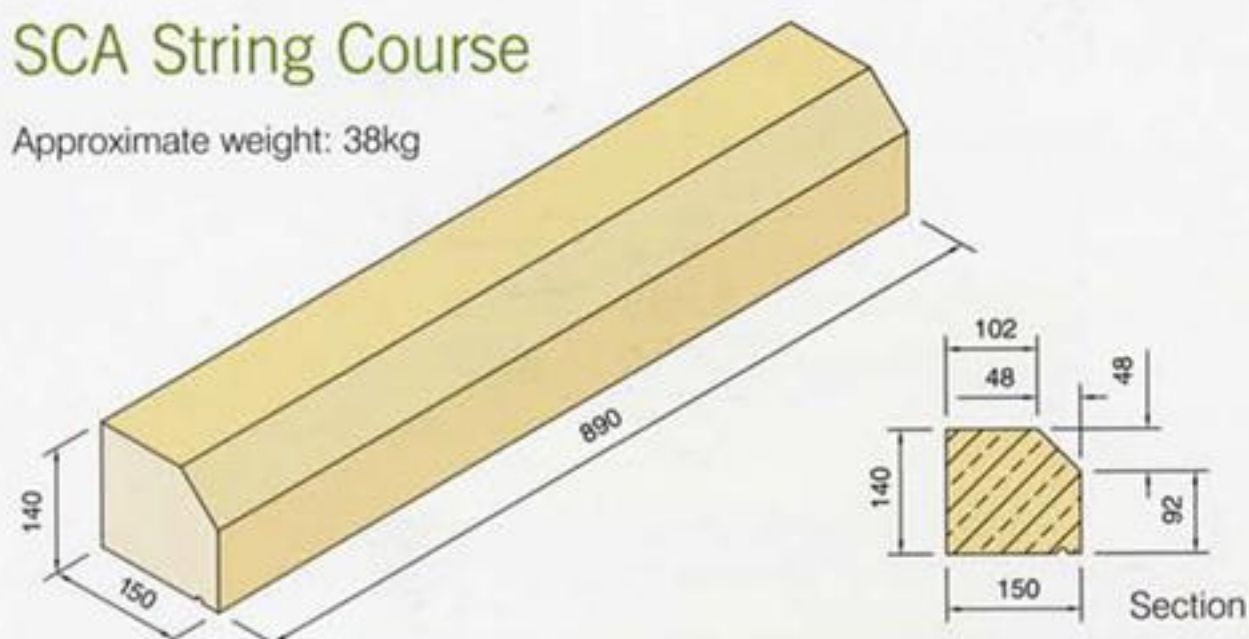
All decorative heads are manufactured to suit standard window openings, non-standard sizes can be made to order. \*Heads over 1400mm long are made in two pieces, with allowance for a 10mm joint. Meadowstone Homestyle Heads are decorative and not structural, a structural lintel will be required which can be inserted either above or below the decorative head.



# String Courses

## SCA String Course

Approximate weight: 38kg



SCA Straight

SCAXL LH External Return

SCAXR RH External Return

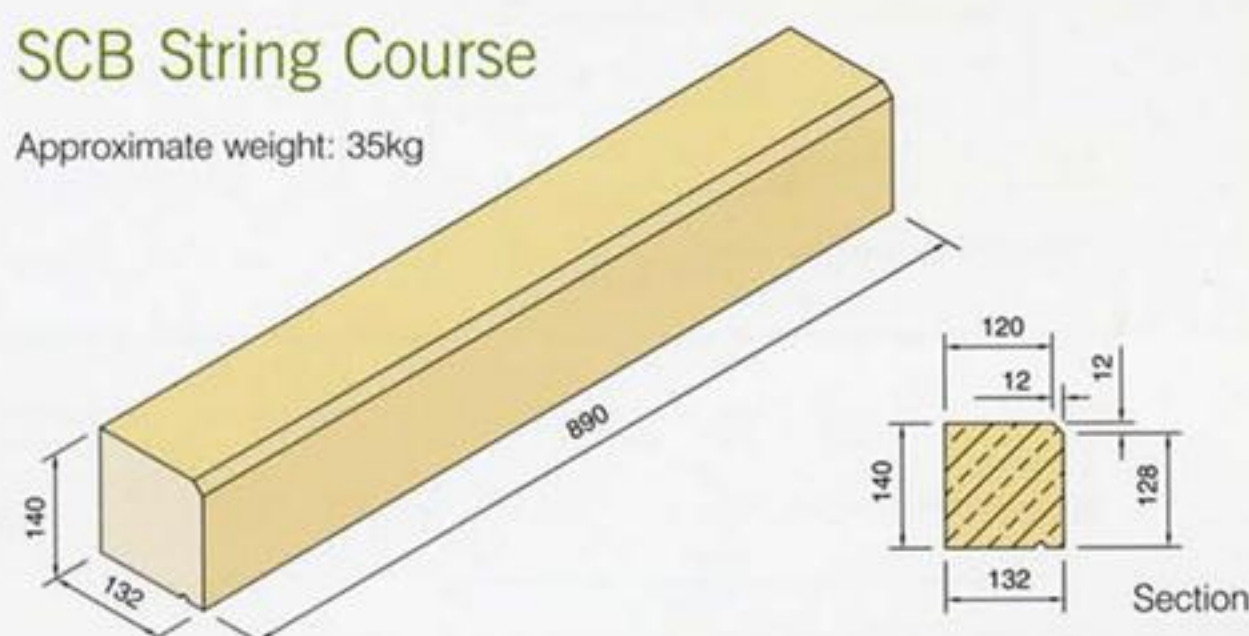
SCAHL LH Internal Return

SCAHR RH Internal Return

This string course can be used with brickwork/masonry above and either brickwork/masonry below or render

## SCB String Course

Approximate weight: 35kg



SCB Straight

SCBXL LH External Return

SCBXR RH External Return

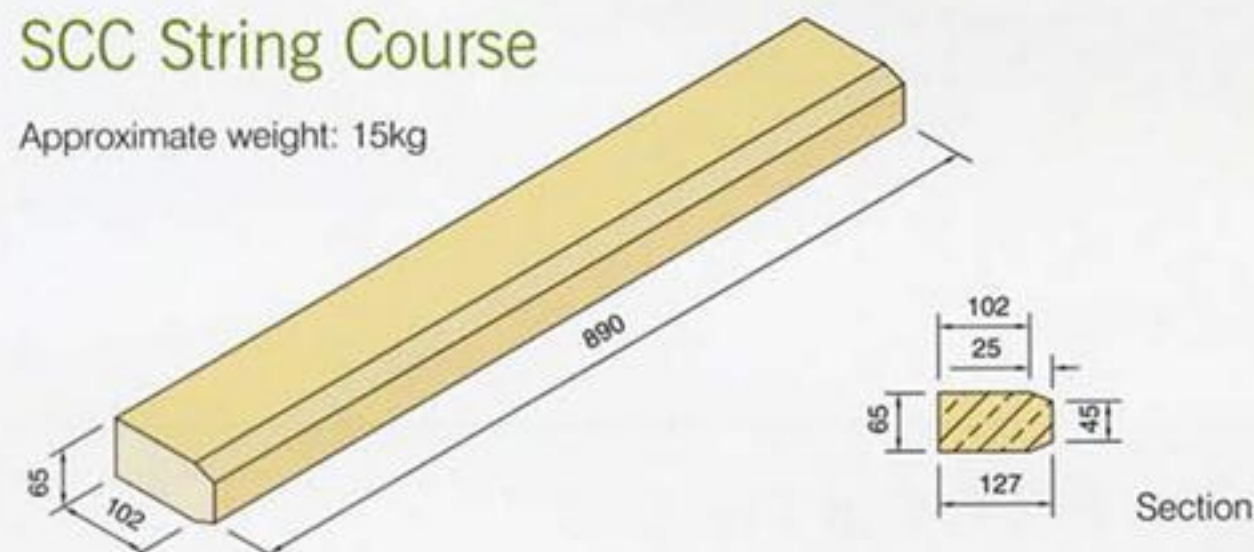
SCBHL LH Internal Return

SCBHR RH Internal Return

This string course is suitable for render above and below or render above and brickwork/masonry below

## SCC String Course

Approximate weight: 15kg



SCC Straight

SCCXL LH External Return

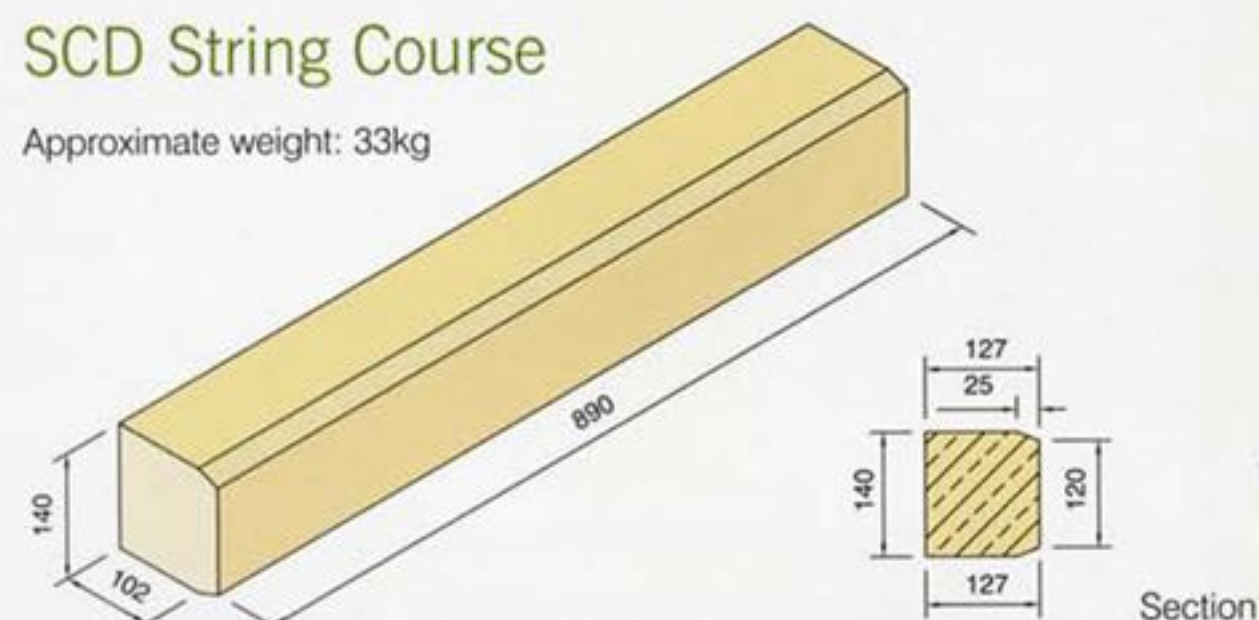
SCCXR RH External Return

SCCHL LH Internal Return

SCCHR RH Internal Return

## SCD String Course

Approximate weight: 33kg



SCD Straight

SCDXL LH External Return

SCDXR RH External Return

SCDHL LH Internal Return

SCDHR RH Internal Return

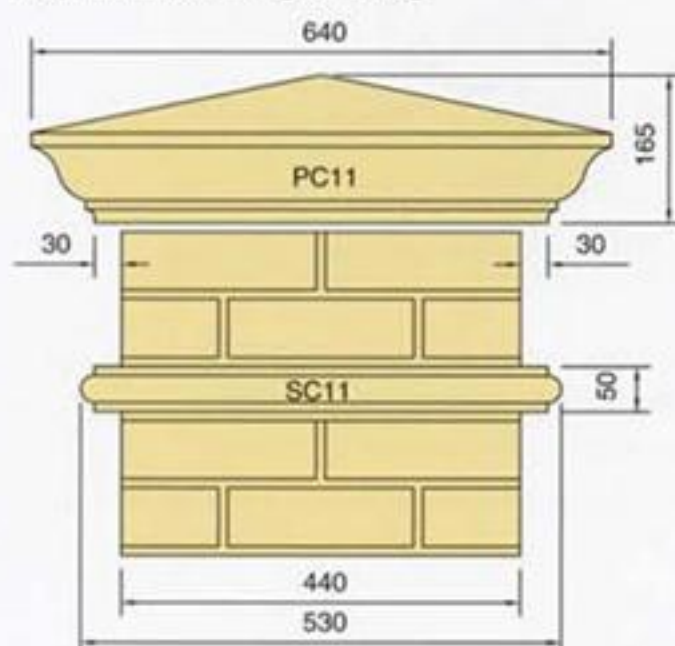
All string courses are supplied in 890mm lengths. LH and RH 90° internal/external returns are also available.



# Pier Caps

## PC11 Pier Cap

Approximate weight: 88kg

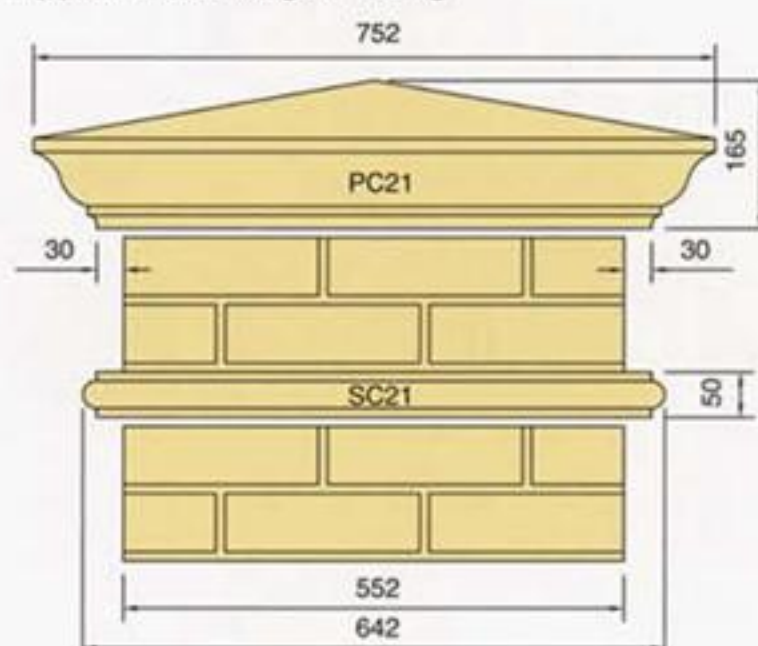


## SC11 String

Approximate weight: 28kg

## PC21 Pier Cap

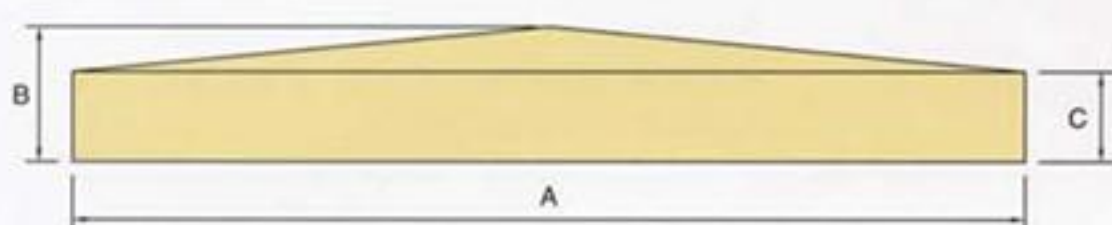
Approximate weight: 125kg



## SC21 String

Approximate weight: 42kg

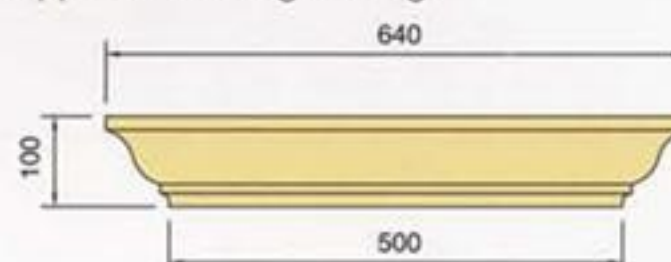
## PCP Pier Cap



	A	B	C	Weight (kg)
PCP2	320	75	50	13
PCP3	450	75	50	25
PCP4	525	75	50	34
PCP6	750	250	100	121

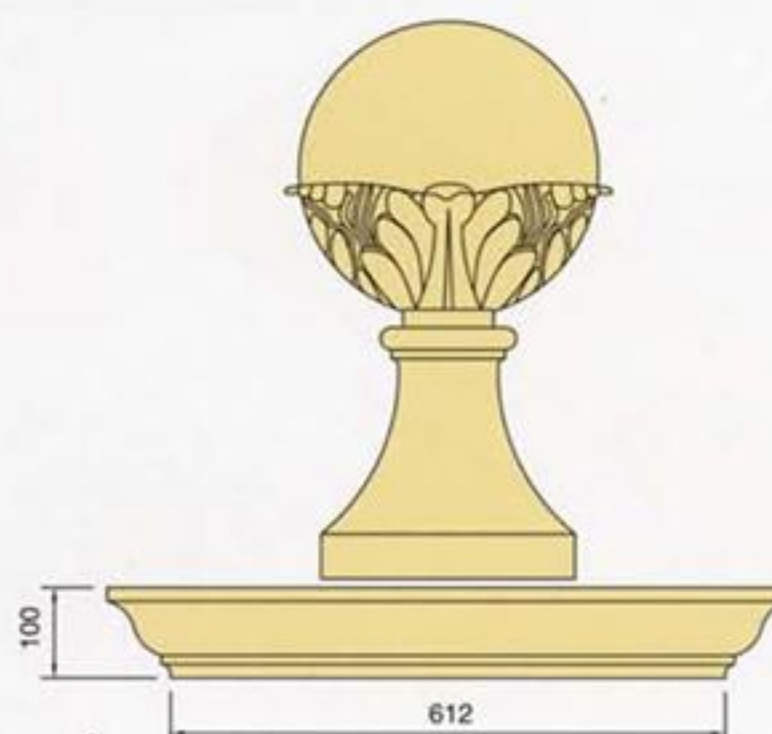
## PC10 Flat Pier Cap

Approximate weight: 70kg



## PC20 Flat Pier Cap

Approximate weight: 100kg

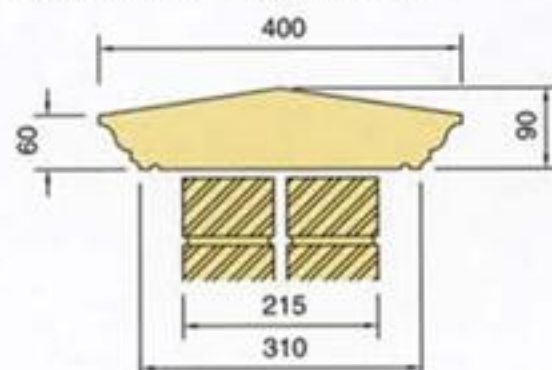




# Copings

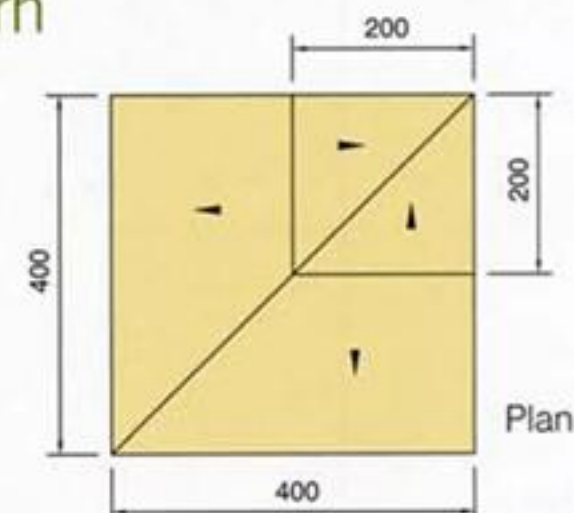
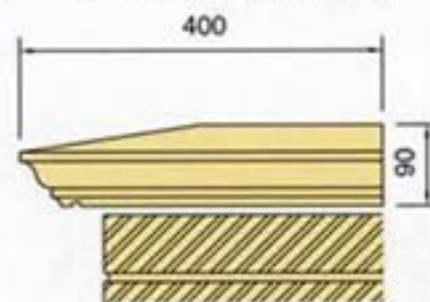
## CP21 Coping

Approximate weight: 35kg



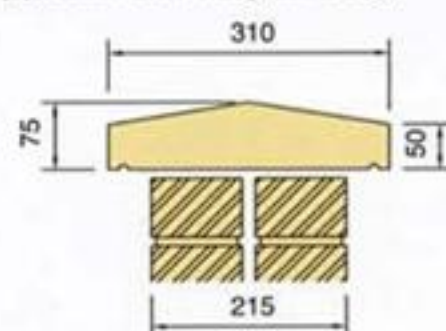
## CP21X 90° External/Internal Return

Approximate weight: 27kg



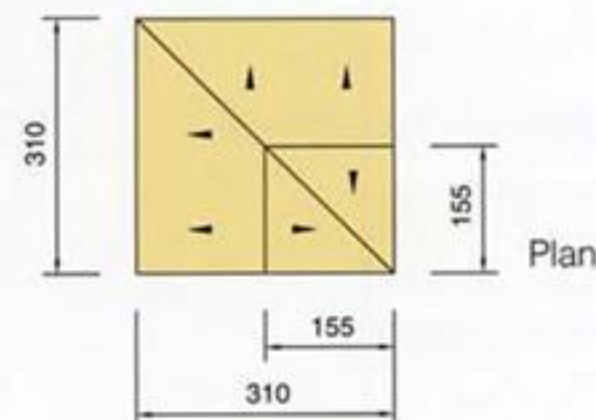
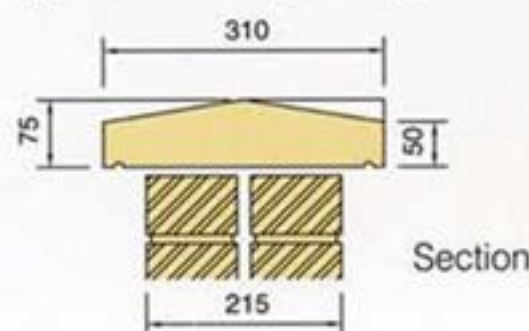
## CP2 Straight Coping

Approximate weight: 25kg



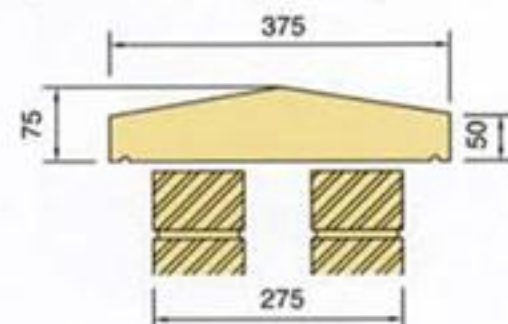
## CP2X 90° External/Internal Return

Approximate weight: 13kg



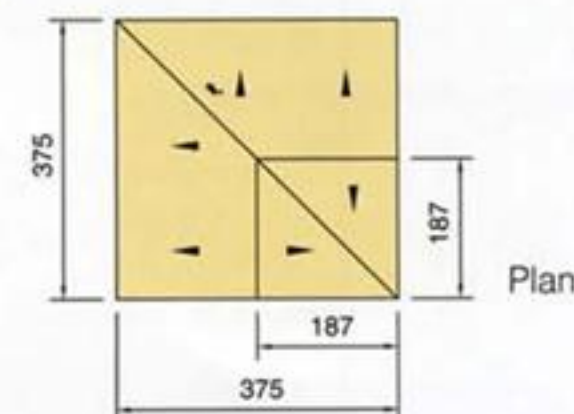
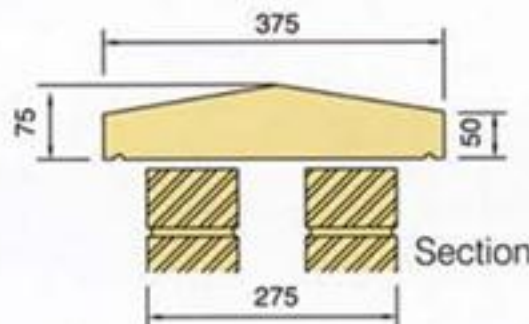
## CP3 Straight Coping

Approximate weight: 30kg



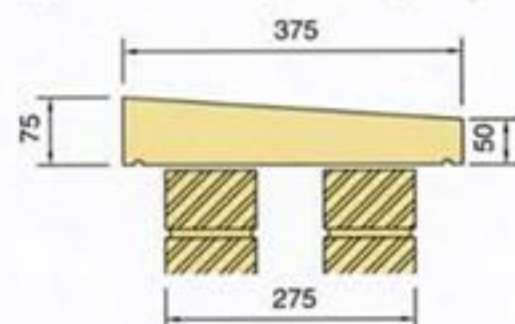
## CP3X 90° External/Internal Return

Approximate weight: 18kg



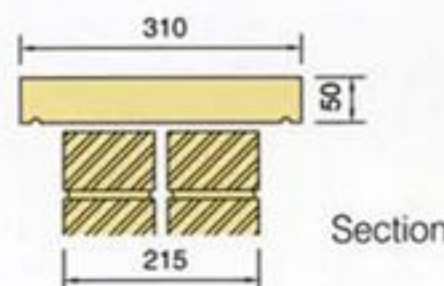
## CP7 Straight Coping

Approximate weight: 30kg



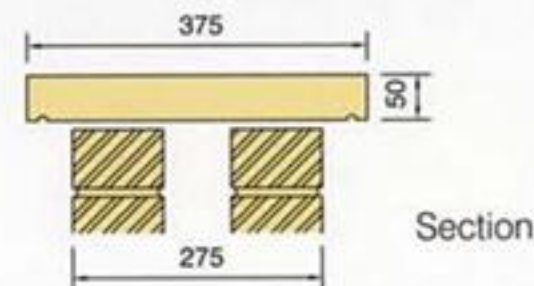
## CP9 Straight Coping

Approximate weight: 20kg



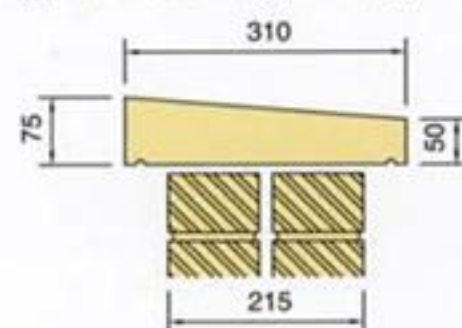
## CP11 Straight Coping

Approximate weight: 20kg



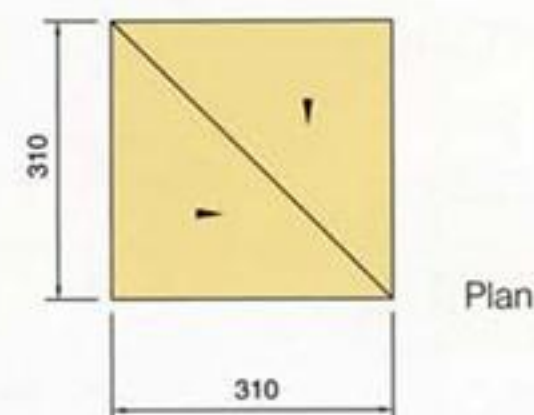
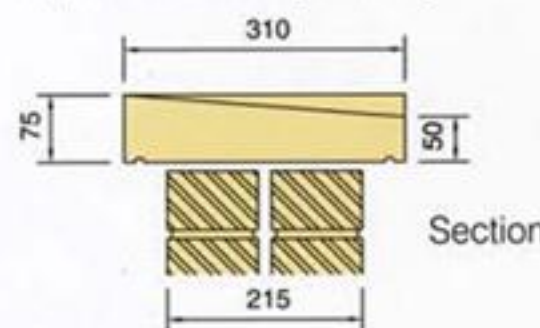
## CP12 Straight Coping

Approximate weight: 25kg



## CP12X External Return

Approximate weight: 13kg



All copings are supplied in 600mm lengths.

Flat copings are also suitable for water tabling. Kneelers/Apex stone to suit can be made to order.

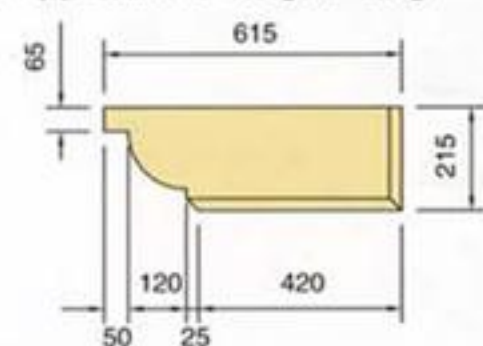


# Corbels

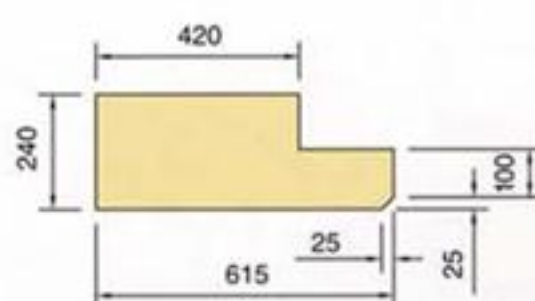


## S060L Left Hand Corbel

Approximate weight: 48kg



Side Elevation



Plan

## S060R Right Hand Corbel

Approximate weight: 48kg



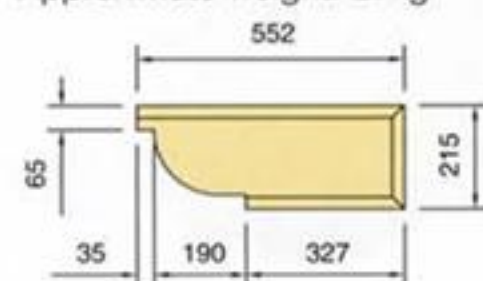
Side Elevation



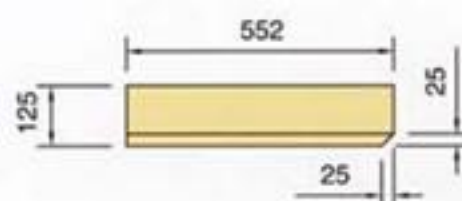
Plan

## S075L Left Hand Corbel

Approximate weight: 27kg



Side Elevation



Plan

## S075R Right Hand Corbel

Approximate weight: 27kg



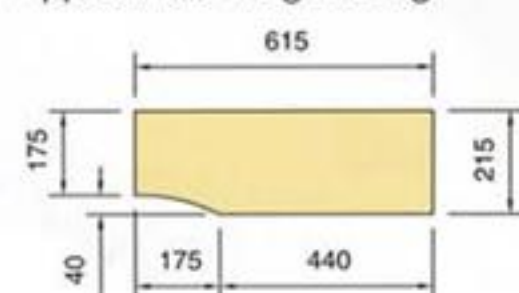
Side Elevation



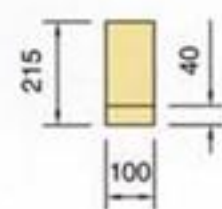
Plan

## S040 Universal-faced Front and Both Sides

Approximate weight: 27kg



Side Elevation



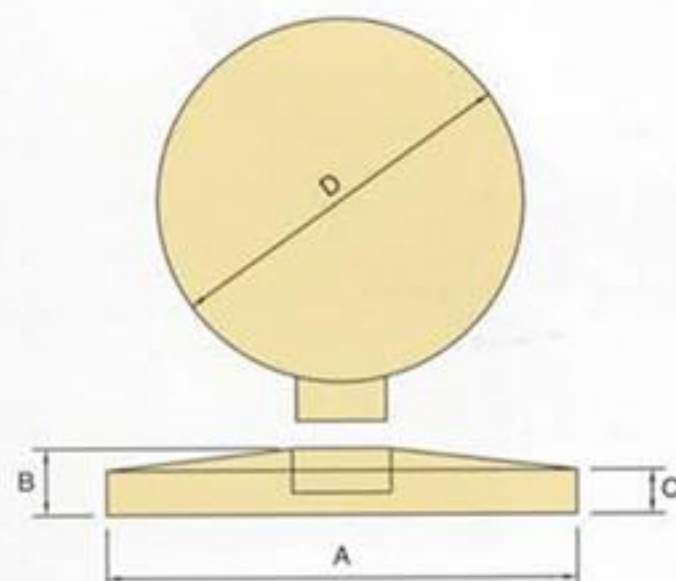
Front Elevation



# Balls, Finials and Bases



## Balls and Bases



Sizes for Balls

Balls	D	Weight (kg)	Suitable Base
S2	300	31 approx.	SB3/SB4/SB6
S3	408	76 approx.	SB3/SB4/SB6
S4	450	102 approx.	SB3/SB4/SB6

Sizes for Bases

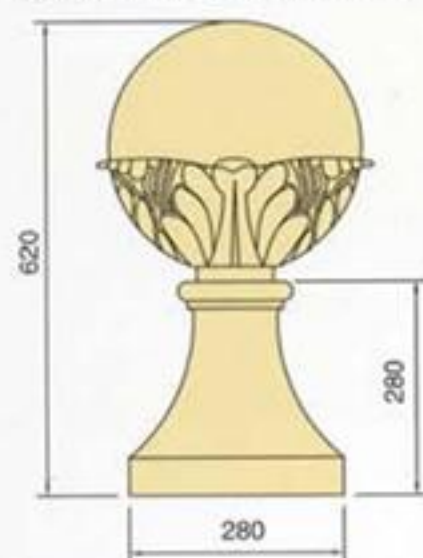
Bases	A	B	C	Weight (kg)
SB3	450	75	50	25 approx.
SB4	525	75	50	34 approx.
SB6	750	250	100	180 approx.

## Finials

Please note: due to their specialist nature minimal levels of these products are kept in stock and orders may therefore require special manufacture.

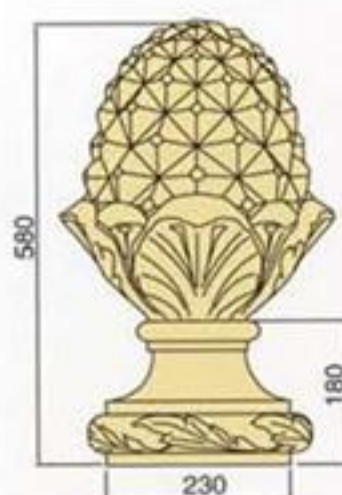
### FN240A Acanthus Ball and FN230C Collared Base

Approximate weight: 55kg



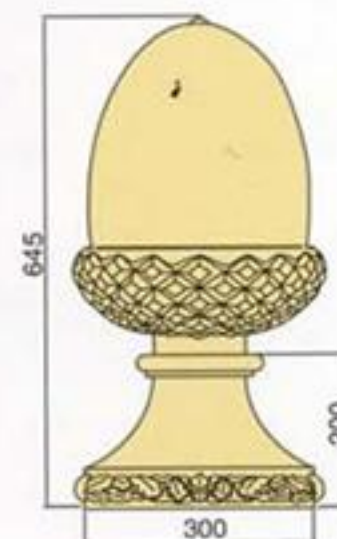
### FN100 The Pineapple

(Includes base)  
Approximate weight: 40kg



### FN110 The Acorn

(Includes base)  
Approximate weight: 40kg

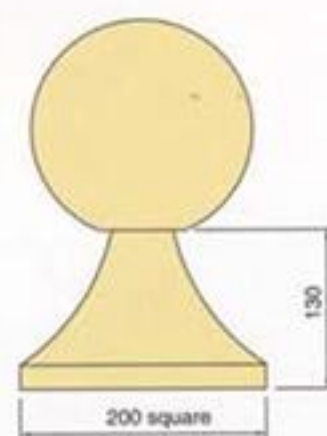


### FN200A 180mm Diameter Ball and FN200B Plain Base

Approximate weight: 10kg

FN200A – 180mm diameter ball

FN200B – Plain base (200mm x 200mm x 130mm)



### FN210A 230mm Diameter Ball and Collared Base

Approximate weight: 20kg

FN210A – 230mm diameter ball

FN210C – Collared base (225mm x 225mm x 180mm)

### FN220A 280mm Diameter Ball and Collared Base

Approximate weight: 30kg

FN220A – 280mm diameter ball

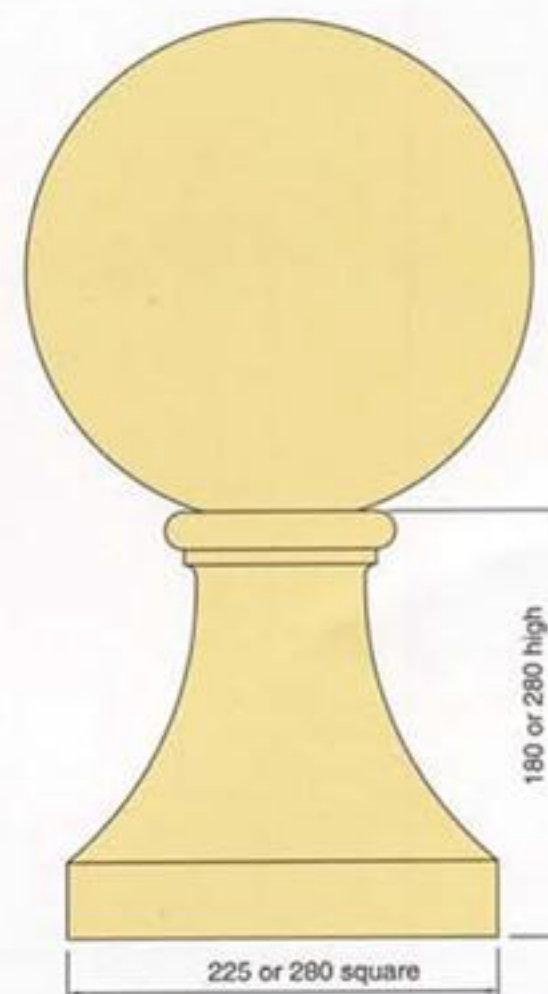
FN210C – Collared base (225mm x 225mm x 180mm)

### FN230A 330mm Diameter Ball and Collared Base

Approximate weight: 50kg

FN230A – 330mm diameter ball

FN230C – Collared base (280mm x 280mm x 280mm)



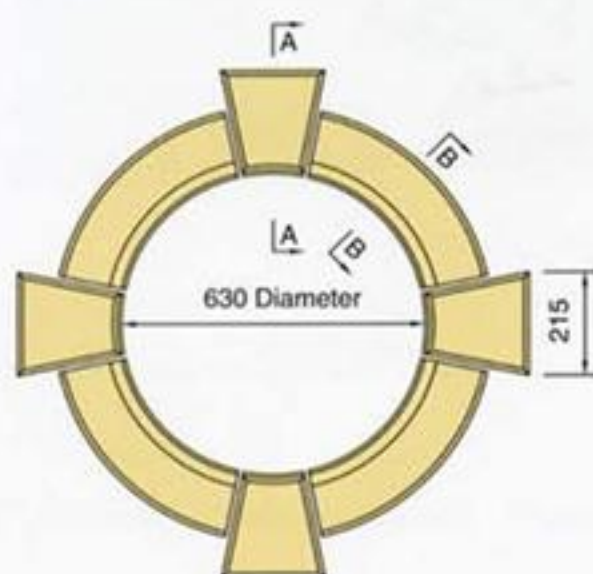
All items are supplied with stainless steel dowels and preformed holes for dowels.



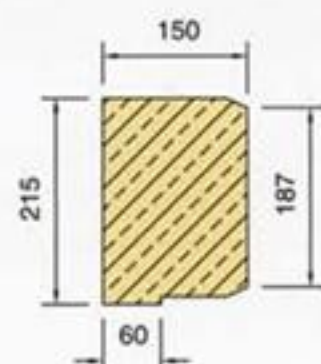
# Accessories

## CW3 Circular Window Surround

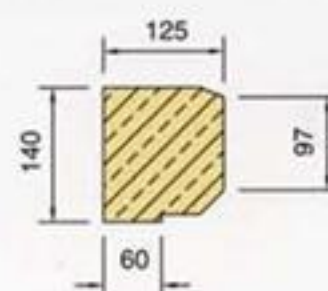
Approximate weight: 124kg



Front Elevation



Section A-A CW3K  
Approximate weight: 11kg each



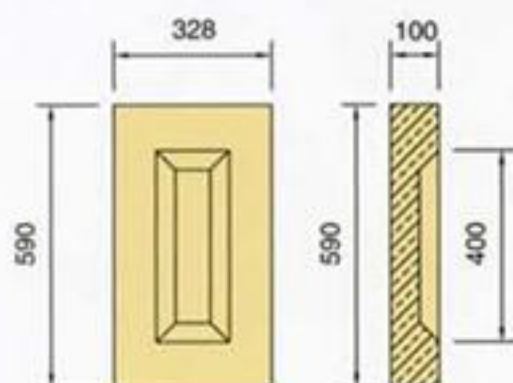
Section B-B CW3A  
Approximate weight: 15kg each



## Gable Vent Features

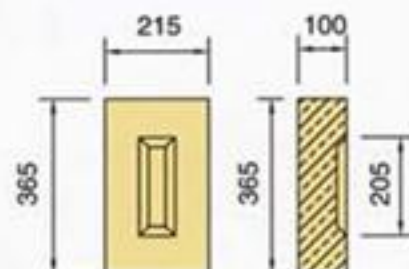
### GV1 Gable Vent

Approximate weight: 36kg



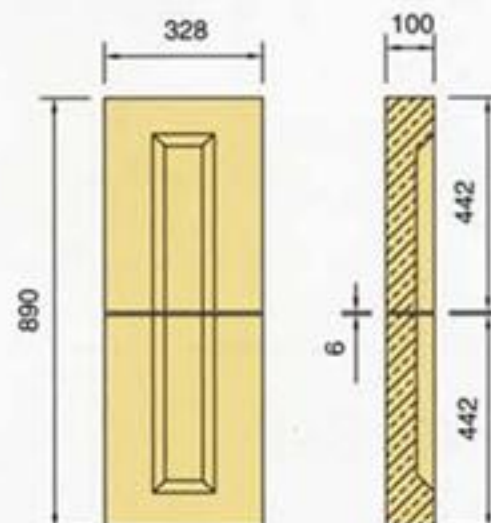
### GV2 Gable Vent

Approximate weight: 17kg

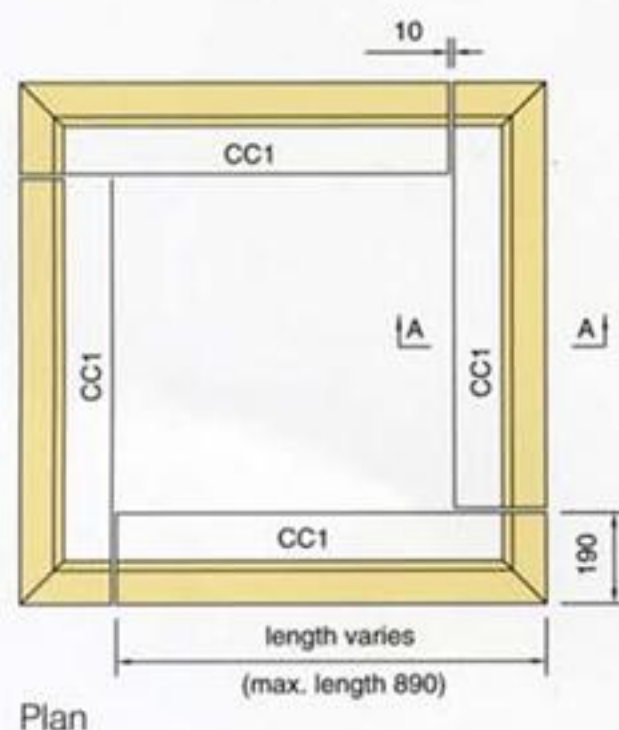


### GV3 Gable Vent

Approximate weight: 54kg  
Approximate weight: 27kg per stone



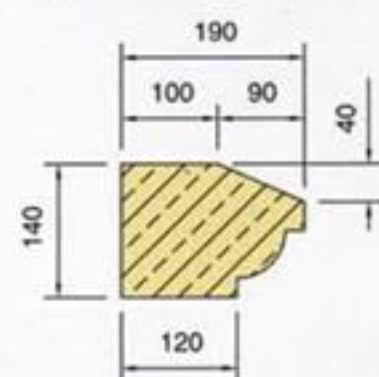
## Chimney Cap



Plan

### CC1 Section A-A

Approximate weight: 41kg per 890mm long unit



Section A-A CC1



These units are designed for in situ flaunching with concrete. The stones should be tied into the surrounding brickwork and/or concrete flaunching by means of mechanical ties.



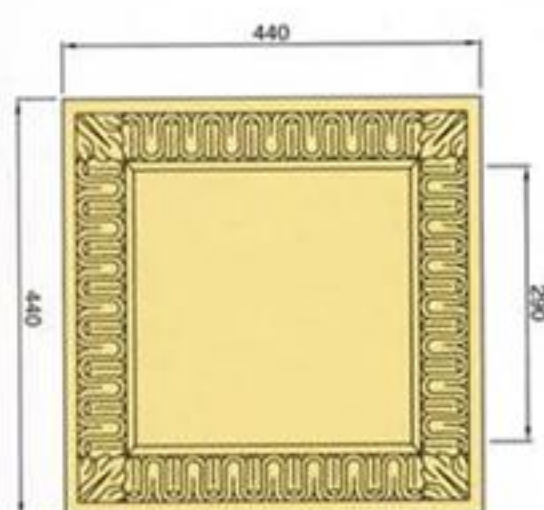
# Accessories

## Name and Date Stones

These items are held in stock as blanks for carving to customers requirements.  
Many type font styles are available to suit the customers needs.  
All stones are 100mm thick.

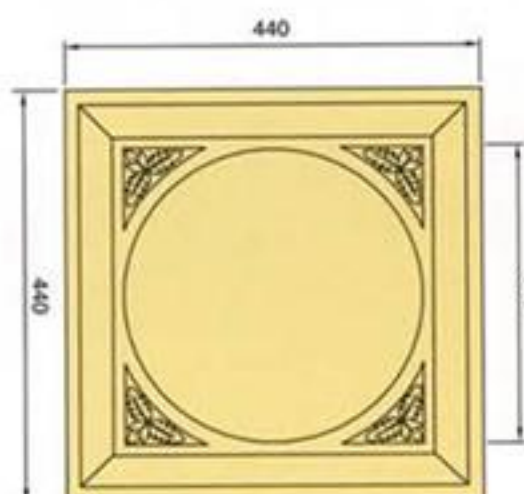
### DP1 Date Stone

Approximate weight: 27kg



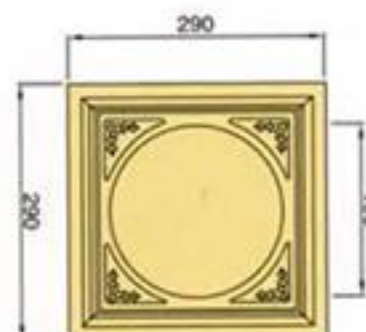
### DP2 Date Stone

Approximate weight: 30kg



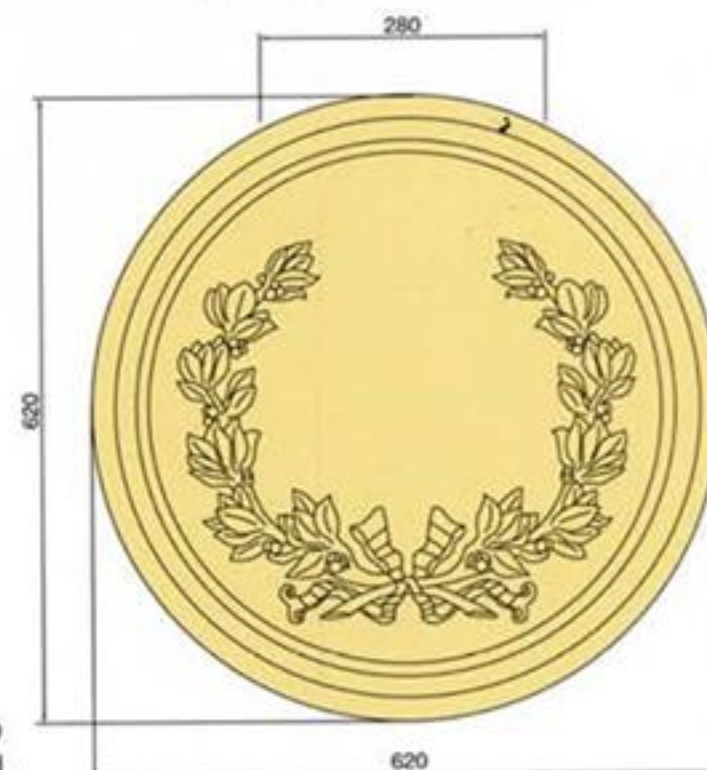
### DP3 Date Stone

Approximate weight: 14kg



### RS1 Date Stone

Approximate weight: 48kg  
Diameter: 620mm



The RS1 is also designed  
as a feature stone to fit into  
the CW3 Window Surround.

## Technical Specifications

All handmade products are manufactured to comply with BS 1217:1997 (Specification for Cast Stone). Machine-made blocks and quoins are manufactured to BS 6457.

Meadowstone (Derbyshire) Ltd. specialises in the manufacture of semi-dry cast stone products.

All products incorporated within this brochure are purely decorative. Handling reinforcement has been introduced where necessary to BS 1217:1997.

Set down below are the technical datasheets which are available on request from our office or representatives and should be studied prior to specifying Meadowstone cast stone products.

- GN 001 Product Health & Safety
- GN 002 Specification
- GN 003 Design Considerations
- GN 004 Installation Guide
- GN 005 Site Handling & Practice
- GN 006 Efflorescence
- GN 007 Cleaning & Maintenance

In addition it is strongly recommended that specifiers should be aware of, and consult, the following British Standard Specifications when considering the use of cast stone products.

#### BS 5628 Use of Masonry

- Part 1 : Structural Use of Unreinforced Masonry
- Part 2 : Structural Use of Reinforced and Pre-stressed Masonry
- Part 3 : Materials and Components Design and Workmanship

#### BS 6399 Design Loading of Buildings

- Part 1 : Code of Practice for Dead and Imposed Loads

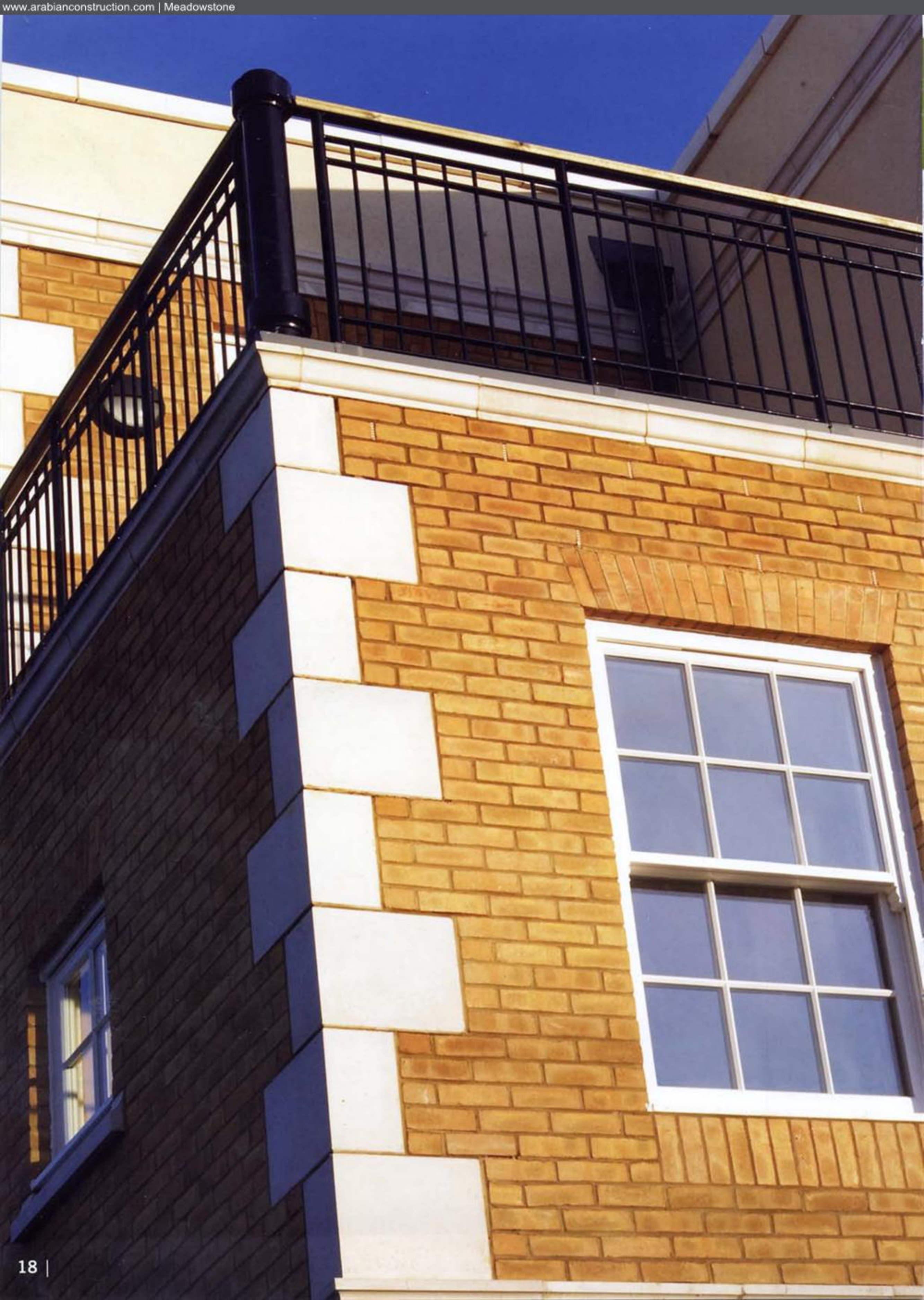
#### BS 6100 Glossary of Building and Engineering Terms

#### BS 8000 Workmanship on Building Sites

- Part 3 : Code of Practice for Masonry

Advice offered by Meadowstone personnel is given in good faith and it is to the best of our knowledge accurate and true, but is offered without guarantee.









A cost-effective alternative to handmade products, Meadowstone's high quality machine-made blocks and quoins have become increasingly popular in the construction industry for a variety of applications.

The flexible and automated manufacturing process offers the advantage of quicker production and delivery. These products are available in a wide choice of sizes and shades.



## Blocks & Quoins

### Shades

Bathstone items are usually available from stock.



02 Bathstone

### Shades available to order

Other shades are made to order, so please contact us for a current delivery period.



01 Portland



03 Yorkstone



04 Volterra



05 Cotswold



06 Ivory

*It is always advisable to check the availability of the components you require prior to placing your order.*

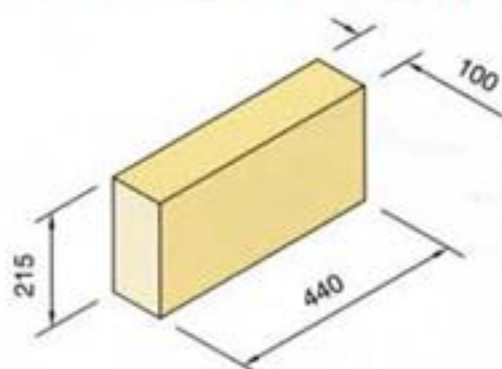
Colours are as close as the printing process will allow. Please request colour samples prior to placing an order.

<b>Ashlar Blocks &amp; Quoins</b>	20
<b>Plinth Blocks</b>	21
<b>Chamfered Quoins</b>	21



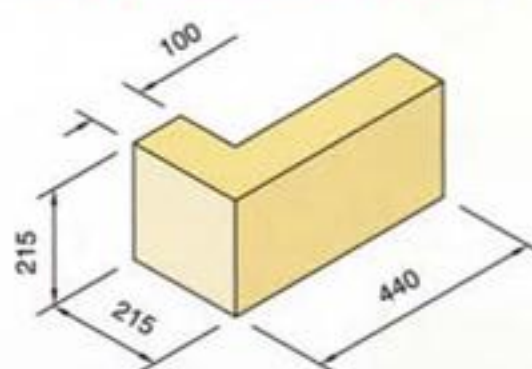
# Ashlar Blocks & Quoins

## PB1 Plain Ashlar Block



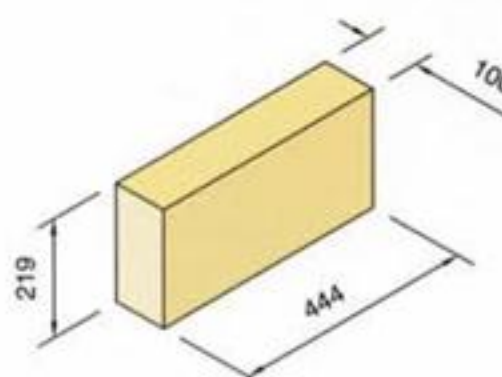
Approximate weight: 20kg  
Pack size: 56No.  
Pack weight: 1120kg

## PQ1 Plain Quoin



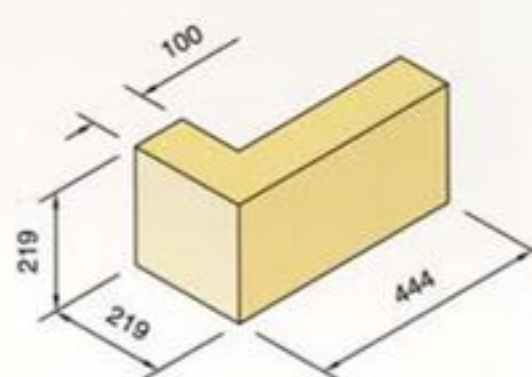
Approximate weight: 25kg  
Pack size: 48No.  
Pack weight: 1200kg

## PB2 Plain Ashlar Block



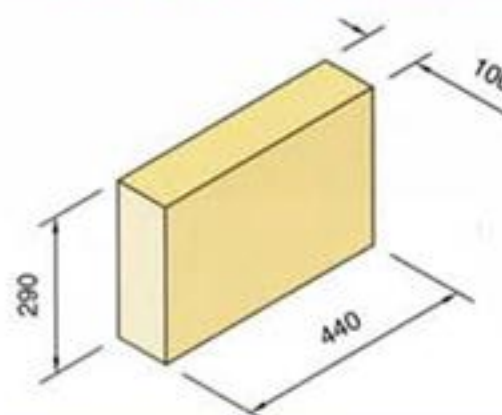
Approximate weight: 21kg  
Pack size: 56No.  
Pack weight: 1176kg

## PQ2 Plain Quoin



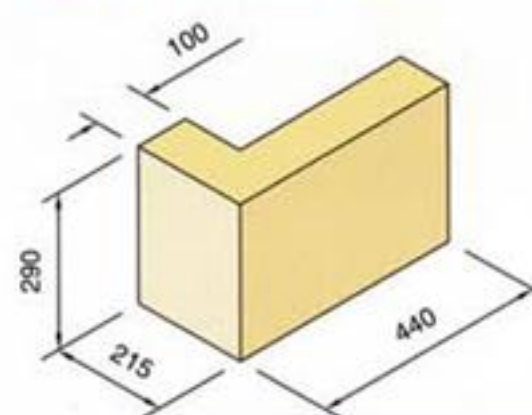
Approximate weight: 26kg  
Pack size: 48No.  
Pack weight: 1248kg

## PB3 Plain Ashlar Block



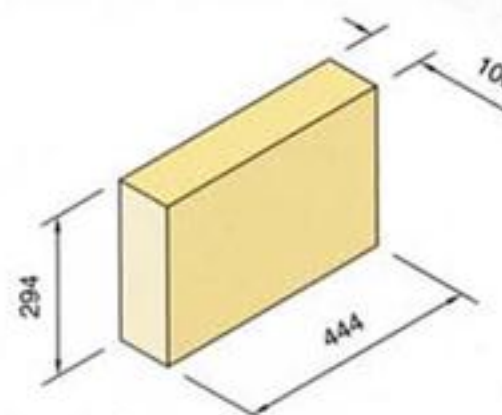
Approximate weight: 27kg  
Pack size: 48No.  
Pack weight: 1296kg

## PQ3 Plain Quoin



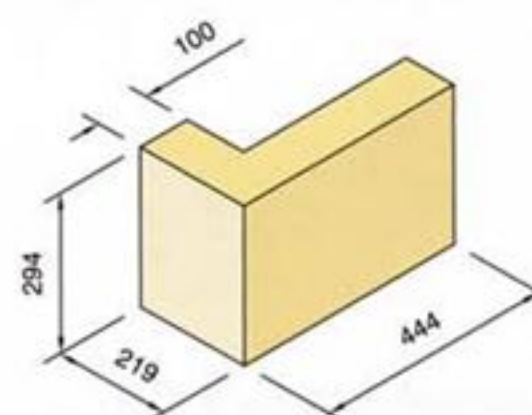
Approximate weight: 34kg  
Pack size: 32No.  
Pack weight: 1088kg

## PB4 Plain Ashlar Block



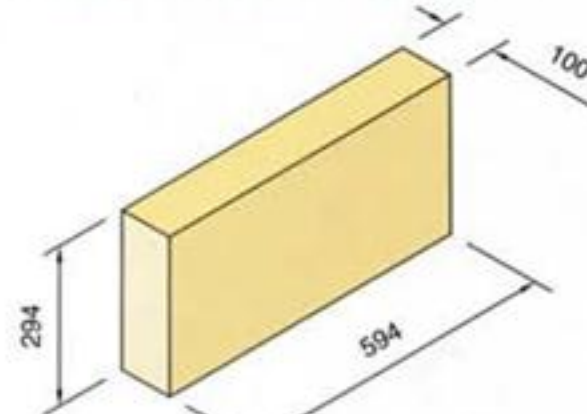
Approximate weight: 28kg  
Pack size: 48No.  
Pack weight: 1344kg

## PQ4 Plain Quoin



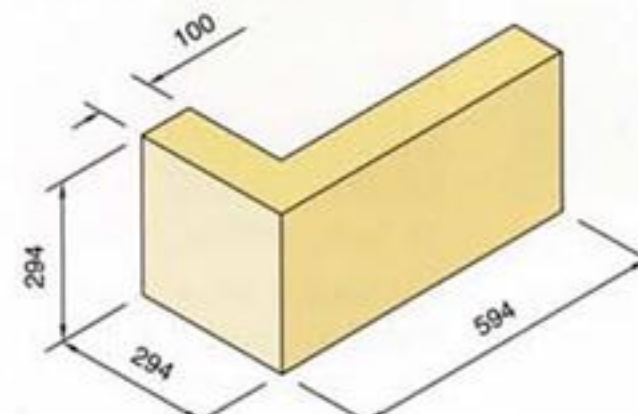
Approximate weight: 35kg  
Pack size: 32No.  
Pack weight: 1120kg

## PB5 Plain Ashlar Block



Approximate weight: 37kg  
Pack size: 32No.  
Pack weight: 1184kg

## PQ5 Plain Quoin



Approximate weight: 49kg  
Pack size: 32No.  
Pack weight: 1568kg

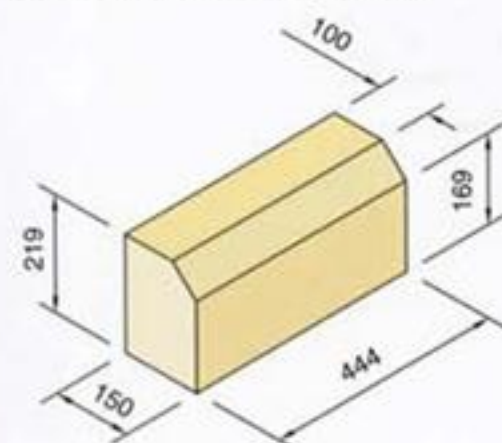
All Ashlar Blocks and Quoins are sold in full packs, split packs will carry a surcharge. When walling large areas always mix blocks from several packs.



# Plinth Blocks & Chamfered Quoins

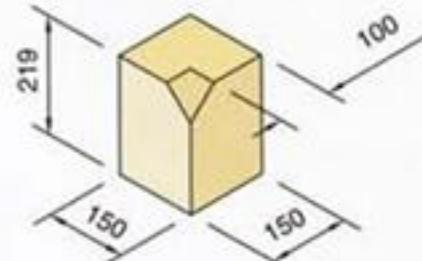
## PL30 Plinth Block

Approximate weight: 30kg



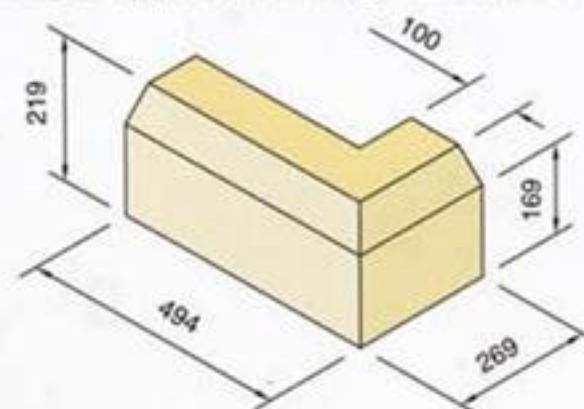
## PLH Internal Return

Approximate weight: 10kg



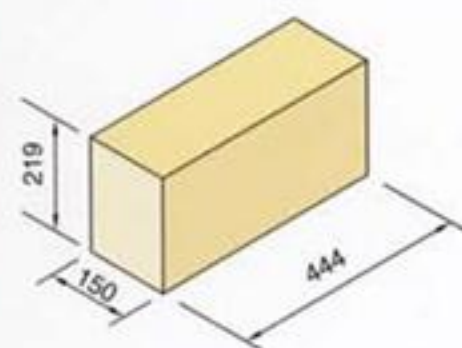
## PLXL/XR External Return

Approximate weight: 41kg  
PLXL opposite drawing. PLXR as drawing



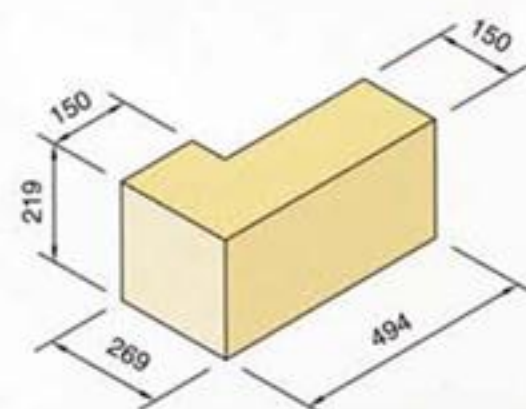
## PB30 Sub Plinth Block

Approximate weight: 31kg



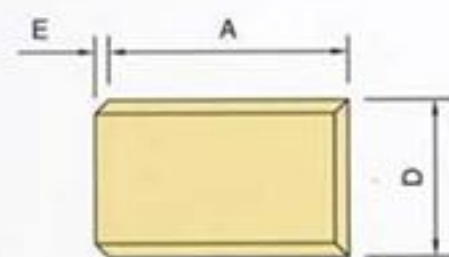
## SPQ Sub Plinth Quoin

Approximate weight: 46kg

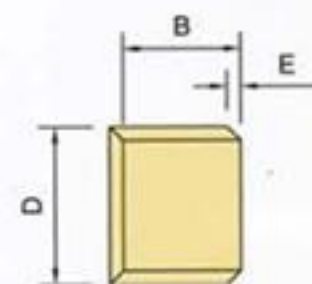


## Chamfered Quoins

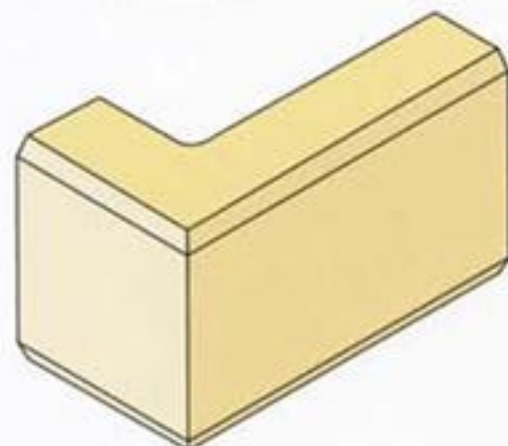
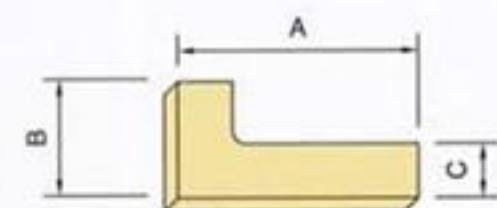
Front Elevation



End Elevation



Plan



Sizes for Chamfered Quoins

	A	B	C	D	E	kg	Pack Size	Pack Weight (kg)
CHQ2	328	215	100	215	18	24	48	1152
CHQ4	440	215	100	290	25	43	32	1376
CHQ5	440	215	100	215	25	32	32	1024











Meadowstone has developed a new product with the aesthetic appeal of cast stone and the performance of wet cast concrete.

This has been achieved by combining a range of aggregates to achieve optimum compaction - and using a low water:cement ratio to produce a highly resilient cast stone.

In its compressive strength and impermeability to water, M-Stone exceeds the requirements of both BS 1217 and the UK Cast Stone Association. Its flexural strength is also higher than typical cast stone products.

The product has a 28 day compressive strength of over 50Nmm<sup>2</sup>.



## New M-Stone

### M-Stone Features & Benefits

- M-Stone is a vibration cast concrete, made with a specially developed admixture to enable the mould to be stripped directly after casting
- The aggregate is sized up to 5mm (rather than 2mm for semi-dry) to give improved strength and compaction
- **Benefits over semi-dry:** improved compaction and selection of aggregates gives a higher flexural strength, and makes it more resilient
- **Benefits over wet cast:** the efficiency of being able to use moulds several times a day allows the cast to be closer to that of a traditional semi-dry product, but with compressive and flexural strengths to match typical wet cast concrete
- Manufacturing lead times are similar to those of traditional semi-dry products

### Applications

M-Stone is ideal for use where the appeal of cast stone is required, but with the added confidence of a more robust material.

### Shades

Portland and Bathstone are usually available from stock.



01 Portland



02 Bathstone

*Other shades may be available.  
Please contact our sales office for details.*

*It is always advisable to check the availability of the components you require prior to placing your order.*

Colours are as close as the printing process will allow.  
Please request colour samples prior to placing an order.









Glassfibre Reinforced Concrete Stone (GRCS) has become more and more popular in the UK owing to its light weight, durability and ease of installation.

Meadowstone is a market leader in the supply of GRCS products. Working closely with major customers, the Company has developed a range of standard, volume produced products including canopies, door surrounds, heads and cills.



## GRCS

### GRCS Features & Benefits

In terms of both performance and health & safety issues, the benefits of GRCS are considerable:

- Only 35% of the weight of precast concrete
- Closely matches cast stone in colour and texture
- Higher tensile strength allows thinner wall sections to be manufactured, which are both lightweight and easy to handle
- Easily moulded to reproduce shapes, details and textures
- Easy to post-fix to a building
- More robust - able to resist handling problems on site
- Environmentally friendly as cement usage is considerably reduced

### Applications

GRCS is ideal for use in situations where weight or shape are constrictions

- **ARCHITECTURAL** - lightweight structures can be used to create modern designs or reproduce traditional stone features
- **HOUSING** - Meadowstone provides a range of lightweight GRC heads, cills, copings and door surrounds which can offer a considerable weight-saving advantage over traditional cast stone
- **COMMERCIAL** - Meadowstone can offer cladding solutions suitable for many commercial applications









Meadowstone provides a fully bespoke service in the supply of wet cast products. The Company can also offer a full CAD design facility.

A range of different finishes is available including lightly-etched, sand-blasted and a more heavily exposed aggregate finish.

It is advisable to involve Meadowstone as early as possible in any project due to the longer lead times inherent in the wet cast manufacturing process.

## Wet Cast

### Applications

Wet cast (also known as precast) products are ideal for use in load-bearing situations or where there is a high degree of environmental exposure. Meadowstone can manufacture a range of large components such as columns and structural units.

### Shades

Portland, Bathstone and Natural are usually available as standard shades.



01 Portland



02 Bathstone



08 Natural

As well as the range of the standard shades shown, we are also able to colour match with existing natural or cast stonework - allow an additional 4 weeks for colour matching and sample approval.

**Please contact our Sales Office for details.**

Colours are as close as the printing process will allow.  
Please request colour samples prior to placing an order.





**Meadowstone**

ARCHITECTURAL BUILDING MATERIALS

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[www.meadowstone.co.uk](http://www.meadowstone.co.uk)