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SPECIAL SHAPED BRICKS GUIDE

A complimentary guide to aid the choice and specification of special shaped bricks





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King closer (left and right hand)

GROUP BD

Half bat (snapheader)

BD.1.1

Туре	Α	В	С
BD.1.1	102	102	65

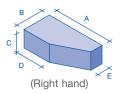


Typically used where there is a requirement for non-full size pieces of brick.





Type	Α	В	С	D	Е
BD.2	215	102	65	102	46

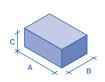


BD.2

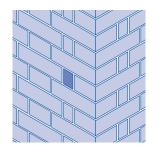
GROUP BD

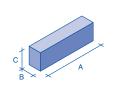
Three-quarter bat

Туре	Α	В	С
BD.1.2	159	102	65









Queen closer

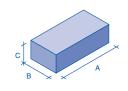
Туре	Α	В	С
BD.3	215	46	65

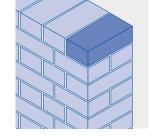
BD.1.2

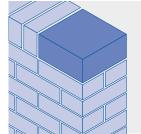
Standard brick fair-faced on bed surface

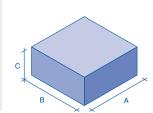
Туре	Α	В	С
BD.1.3	215	102	65

NOTE: Faced on 2 headers 1 stretcher and 1 bed









Square stop end

Type	Α	В	С
BD.4.1	215	159	102
BD.4.2	215	159	65
BD.4.3	215	215	102
BD.4.4	215	215	65

NOTE: Faced on 3 stretchers and 1 bed

BD.4

BD.3

BD.1.3

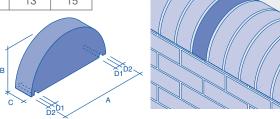
PINGS AND CAPPINGS

Typically uses are as a decorative finish to parapet walls and free-standing walls and to protect the brickwork beneath.

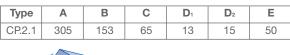
Note: All copings and cappings must be frost resistant i.e. F2 to BSEN771–1. Copings always overhang the brickwork beneath; cappings are flush with the vertical brickwork. It is also recommended that careful consideration is given to the detailing below both copings and cappings.

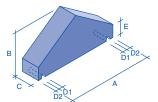
Half round coping

Туре	Α	В	С	D ₁	D_2
CP.1.1	305	153	65	13	15







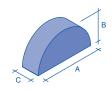


CP.2.1

Saddleback coping

Half round capping

Туре	Α	В	С
CP.1.2	215	108	65

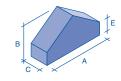






Type	Α	В	С	E
CP.2.2	215	123	65	50

Saddleback capping



CP.2.2

CP.1.2

CP.1.1

06_SPECIAL SHAPED BRICK GUIDE SPECIAL SHAPED BRICK GUIDE

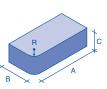
JELNOSE BRICKS

Typically used for feature brickwork where a radius is required, for example, corner details, window/door reveals, pier work. Can also act as capping (see Group CP) or for edging kerbs. This group also includes special bricks to provide an aesthetic visual transition between square and curved elements.

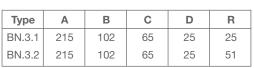
Single bullnose (left and right hand)

Bullnose Bricks

Туре	Α	В	С	R
BN.1.1	215	103	65	25
BN.1.2	215	103	65	51







Single bullnose stop (left and right hand)

Associated special brick: BN.1

(Left hand)

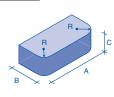
BN.3

BN.1

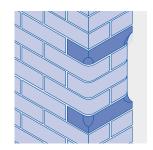
(Left hand)

Double bullnose

Туре	Α	В	С	R
BN.2.1	215	102	65	25
BN.2.2	215	102	65	51







A B C D R

Type	Α	В	С	D	R
BN.4.1	215	102	65	25	25
BN.4.2	215	102	65	25	51

R B C

Associated special bricks: BN.1, BN.2

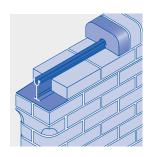
Double bullnose stop

BN.4

BN.2

Caplock System

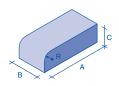
Double bullnose with Caplock™ locking, coping & capping system





Single bullnose header on flat

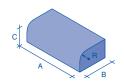
Туре	Α	В	С	R
BN.5.1	215	102	65	25
BN.5.2	215	102	65	51



BN.5

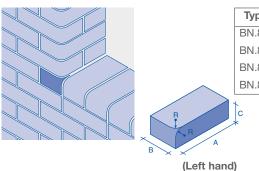
Single bullnose stretcher on flat

Type В С R Α BN.6.1 215 102 65 25 BN.6.2 215 102 65 51





Single bullnose internal return, header fair-faced (left and right hand)



С Туре Α В R BN.8.1 215 102 65 25 BN.8.2 215 102 65 51 BN.8.3 215 102 215 25 BN.8.4 215 102 215 51

> Associated special bricks: BN.1, BN.5, BN.6

BN.8

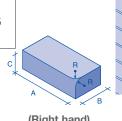
Single bullnose internal return, stretcher fair-faced (left and right hand)

Туре	Α	В	С	R
BN.7.1	215	102	65	25
BN.7.2	215	102	65	51
BN.7.3	215	102	215	25
BN.7.4	215	102	215	51

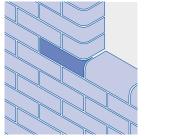
Associated special bricks: BN.1, BN.5, BN.6

BN.7

BN.6



(Right hand)



Bullnose internal return, flat fair-faced (left and right hand)



Туре	Α	В	С	R
BN.9.1	215	102	65	25
BN.9.2	215	102	65	51

Associated special bricks: BN.5, BN.6

(Left hand)

BN.9

SPECIAL SHAPED BRICK GUIDE_11 10_SPECIAL SHAPED BRICK GUIDE

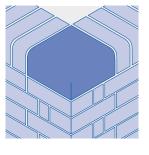
Bullnose external return on edge (left and right hand)

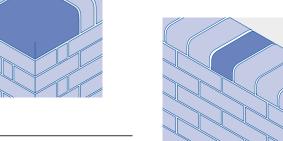
Туре	Α	В	С	R
BN.10.1	215	65	102	25
BN.10.2	215	65	102	51
BN.10.3	215	215	102	25
BN.10.4	215	215	102	51

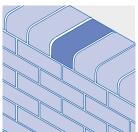
Associated special brick:

BN.1

BN.10

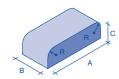








Туре	Α	В	С	R
BN.13.1	215	102	65	25
BN.13.2	215	102	65	51



BN.13

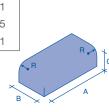
Bullnose external return on flat (left and right hand)

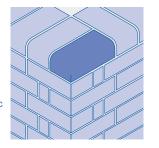
Type	Α	В	С	R
BN.11.1	215	102	65	25
BN.11.2	215	102	65	51
BN.11.3	215	215	65	25
BN.11.4	215	215	65	51

Associated special bricks: BN.5, BN.6

BN.11

BN.12





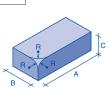
Bullnose double stretcher on flat

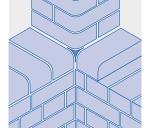
Туре	Α	В	С	R
BN.14.1	215	102	65	25
BN.14.2	215	102	65	51

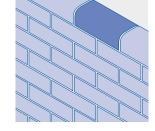
Bullnose mitre (left and right hand) В С R Α

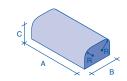
Type BN.12.1 215 103 65 25 BN.12.2 215 103 65 51

Associated special bricks: BN.1, BN.5, BN.6









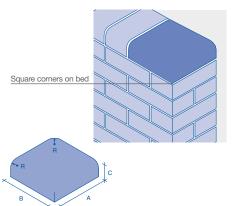
BN.14

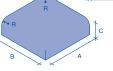
12_SPECIAL SHAPED BRICK GUIDE SPECIAL SHAPED BRICK GUIDE_13

Stop end to double bulinose on edge and to bulinose double header on flat (square corners on bed).

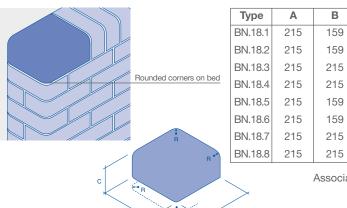
Туре	Α	В	С	R
BN.15.1	215	159	102	25
BN.15.2	215	159	102	51
BN.15.3	215	215	102	25
BN.15.4	215	215	102	51
BN.15.5	215	159	65	25
BN.15.6	215	159	65	51
BN.15.7	215	215	65	25
BN.15.8	215	215	65	51

Associated special bricks: BN.2, BN.13 BN.15





Stop end to double bulinose on edge and to bulinose double header on flat (rounded corners on bed)



Associated special bricks: BN.1, BN.2, BN.13

С

102

102

102

102

65

65

65

65

BN.18

R 25

51

25

51

25

51

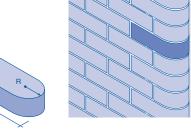
25

51

Cownose

Туре	Α	В	С	R
BN.16.1	215	103	65	25
BN.16.2	215	103	65	51





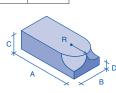
BN.16

BN.17

Cownose stop

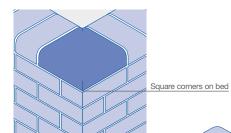
Туре	Α	В	С	D	R
BN.17.1	215	102	65	25	25
BN.17.2	215	102	65	25	51

Associated special brick: BN.16





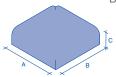
External return to double bullnose on edge and to bullnose double header on flat (square corners on bed)



Туре	Α	В	С	R
BN.19.1	215	215	102	25
BN.19.2	215	215	102	51
BN.19.3	215	215	65	25
BN.19.4	215	215	65	51

Associated special bricks: BN.2, BN.13





BN.19

GROUP AN

External return to double bullnose on edge and to bullnose double header on flat (rounded corners on bed) Type Α BN.20.1 215 215 BN.20.2 215 215

BN.20.3

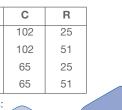
BN.20.4

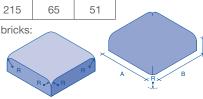
215 Associated special bricks: BN.1, BN.2, BN.13

215

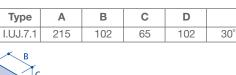
215

BN.20



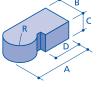






to carry a building element through an angle other than 90°.

Angle bricks generally serve a functional purpose where it is necessary

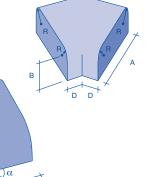


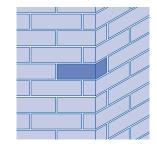
Double bulinose external return to double bulinose on edge and to bulinose double header on flat

Туре	Α	В	С	D	R	α
BN.21.1	215	102	159	101	25	30°
BN.21.2	215	102	159	101	51	30°
BN.21.3	215	65	159	101	25	30°
BN.21.4	215	65	159	101	51	30°
BN.21.5	215	102	159	70	25	45°
BN.21.6	215	102	159	70	51	45°
BN.21.7	215	65	159	70	25	45°
BN.21.8	215	65	159	70	51	45°
BN.21.9	215	102	159	35	25	60°
BN.21.10	215	102	159	35	51	60°
BN.21.11	215	65	159	35	25	60°
BN.21.12	215	65	159	35	51	60°

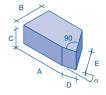
Associated special bricks: BN.2, BN.13, AN.1, AN.2, AN.3







Туре	Α	В	С	D	Е	α
AN.1.1	164	102	65	51	89	30°
AN.1.2	164	102	65	51	94	45°
AN.1.3	164	102	65	51	117	60°

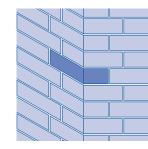


AN.1

Easyangle

External angle (left or right hand)

Squint (Left or right hand)



Туре	Α	В	С	D	α
AN.2.1	159	102	65	103	30°*
AN.2.2	159	102	65	103	45°*
AN.2.3	159	102	65	103	60°*
AN.2.4	215	102	65	103	30°⁺
AN.2.5	215	102	65	103	45°†
AN.2.6	215	102	65	103	60°†

Note: Some types of brick may not be available with A=215 * Suitable for quarter bond without cutting † Suitable for half bond without cutting

(Right hand)

AN.2

BN.21

Cant bricks are typically used for feature brickwork where crisp, clean lines are required e.g. corner

details, window/door reveals, pier work. They can also be used for capping (see Group CP).

GROUP AN

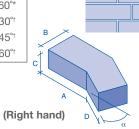
Internal angle (dog leg) (Left or right hand)

Туре	Α	В	С	D	α
AN.3.1	164	102	65	51	30°†
AN.3.2	164	102	65	51	45°⁺
AN.3.3	164	102	65	51	60°⁺
AN.3.4	159	102	65	102	30°*
AN.3.5	159	102	65	102	45°*
AN.3.6	159	102	65	102	60°*
AN.3.7	215	102	65	102	30°⁺
AN.3.8	215	102	65	102	45°†
AN.3.9	215	102	65	102	60°†

Note: Some types of brick may not be available with A=215

† Suitable for half bond without cutting

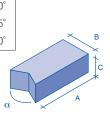
AN.3



Birdsmouth

Туре	Α	В	С	α
AN.4.1	215	102	65	120°
AN.4.2	215	102	65	135°
AN.4.3	215	102	65	150°

AN.4





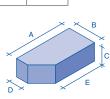
Single cant (left or right hand)

С Type Α

Е D AN.5.1 215 102 65 46 159 215 102 65 60 173 AN.5.2

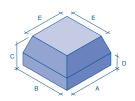
AN.5







В C D Ε Type Α 215 215 46 159 AN.7.1 102 AN.7.2 215 215 102 60 173

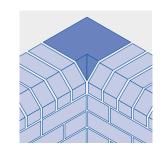


Associated special bricks: AN.5

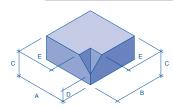
Single cant return

AN.7

Single cant internal return with internal mitre (square external corner on bed)



Туре	Α	В	С	D	Е
AN.8.1	215	215	102	46	159
AN.8.2	215	215	102	60	173



Associated special brick: AN.5

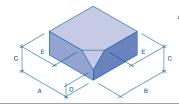
Note: Faced on 2 full stretchers

8.NA

Single cant internal return with internal slope (square external corner on bed)



Туре	Α	В	С	D	Е
AN.9.1	215	215	102	46	159
AN.9.2	215	215	102	60	173



Associated special brick: AN.5

Note: Faced on 2 full stretchers

AN.9

18 SPECIAL SHAPED BRICK GUIDE SPECIAL SHAPED BRICK GUIDE 19

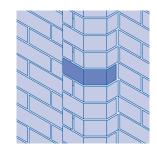
^{*} Suitable for guarter bond without cutting

GROUP AN

Single cant external angle

Туре	Α	В	С	D	Е	F	α
AN.10.1	215	102	159	46	159	101	30°
AN.10.2	215	102	159	60	173	101	30°
AN.10.3	215	102	159	46	159	70	45°
AN.10.4	215	102	159	60	173	70	45°
AN.10.5	215	102	159	46	159	35	60°
AN.10.6	215	102	159	60	173	35	60°





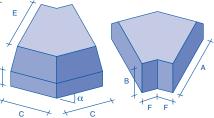
Double cant

Туре	Α	В	С	D	E
AN.6.1	215	102	65	46	102
AN.6.2	215	102	65	60	131

C A A D

AN.6

Associated special bricks: AN.2, AN.5



AN.10

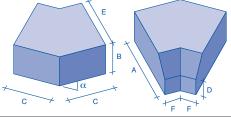
Single cant internal angle

Туре	Α	В	С	D	Е	F	α
AN.11.1	215	102	159	46	159	101	30°
AN.11.2	215	102	159	60	173	101	30°
AN.11.3	215	102	159	46	159	70	45°
AN.11.4	215	102	159	60	173	70	45°
AN.11.5	215	102	159	46	159	35	60°
AN.11.6	215	102	159	60	173	35	60°

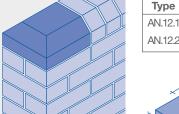


Associated special bricks: AN.3. AN.5

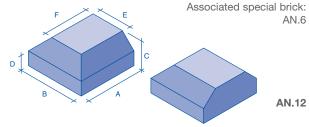
AN.11



Double cant stop end (square corners on bed)



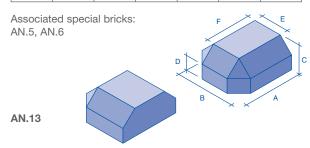
Туре	Α	В	С	D	E	F
AN.12.1	215	215	102	46	102	159
AN.12.2	215	215	102	60	131	173



GROUP AN

Double cant stop end (canted corners)

Type Α В С D Ε F AN.13.1 215 102 46 103 159 AN.13.2 215 215 102 60 131 173

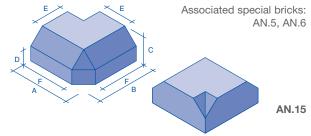




Double cant external return with internal mitre (canted corners on bed)

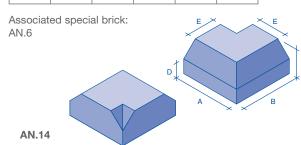


Туре	Α	В	С	D	E	F
AN.15.1	215	215	102	46	102	159
AN.15.2	215	215	102	60	131	173



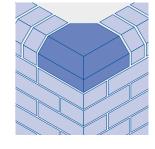
Double cant external return with internal mitre (square corners on bed)

Туре	А В		С	D	E
AN.14.1	215	215	102	46	102
AN.14.2	215	215	102	60	131

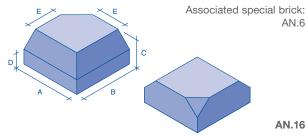




Double cant external return with internal slope (square corners on bed)



Туре	Α	В	С	D	Е
AN.16.1	215	215	102	46	102
AN.16.2	215	215	102	60	131



AN.16

AN.6

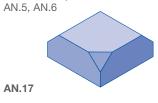
Typically used for aesthetic detailing where hard lines are required e.g. returns, window cills, corbelling details, kerbs and capping (see Group CP).

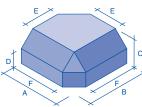
Plinth stop or cant stop (left or right hand)

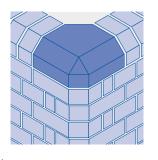
Double cant external return with internal slope (canted corners on bed)

Туре	Α	В	С	D	E	F
AN.17.1	215	215	102	46	103	159
AN.17.2	215	215	102	60	131	173

Associated special bricks:

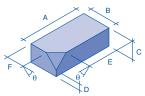








В С D Е F θ 45° 102 65 159 46 9 102 65 23 173 60 45°



Associated special bricks: PL.2, PL.3, AN.5

PL.1

GROUP PL

Plinth header

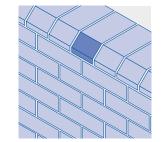
Double cant angle

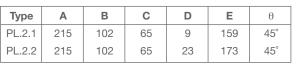
AN.2, AN.3, AN.6

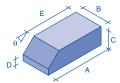
AN.18

Туре	Α	В	С	D	Е	F	θ
AN.18.1	215	102	159	46	102	101	30°
AN.18.2	215	102	159	60	131	101	30°
AN.18.3	215	102	159	46	102	70	45°
AN.18.4	215	102	159	60	131	70	45°
AN.18.5	215	102	159	46	102	35	60°
AN.18.6	215	102	159	60	131	35	60°



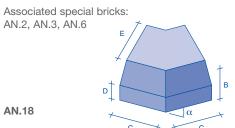


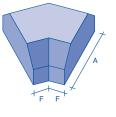


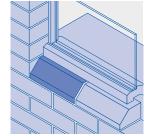


PL.2

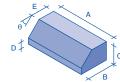
Plinth stretcher







Туре	Α	В	С	D	Е	θ
PL.3.1	215	102	65	9	46	45°
PL.3.2	215	102	65	23	60	45°



PL.3

GROUP PL

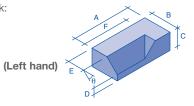
Plinth internal return (left or right hand)

Туре	Α	В	С	D	Е	F	θ
PL.4.1	215	102	65	9	46	169	45°
PL.4.2	215	102	65	23	60	155	45°

Associated special brick: PL.3

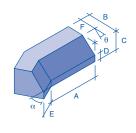
FL.3

PL.4









Plinth internal angle (left or right hand)

Туре	Α	В	С	D	Е	F	α	θ
PL.6.1	164	102	65	9	51	46	30°†	45°
PL.6.2	164	102	65	23	51	60	30°†	45°
PL.6.3	164	102	65	9	51	46	45°†	45°
PL.6.4	164	102	65	23	51	60	45°†	45°
PL.6.5	164	102	65	9	51	46	60° [†]	45°
PL.6.6	164	102	65	23	51	60	60°†	45°
PL.6.7	159	102	65	9	102	46	30°⁺	45°
PL.6.8	159	102	65	23	102	60	30°	45°
PL.6.9	159	102	65	9	102	46	45°*	45°
PL.6.10	159	102	65	23	102	60	45°	45°
PL.6.11	159	102	65	9	102	46	60°	45°
PL.6.12	159	102	65	23	102	60	60°	45°
PL.6.13	215	102	65	9	102	46	30° [†]	45°
PL.6.14	215	102	65	23	102	60	30° [†]	45°
PL.6.15	215	102	65	9	102	46	45° [†]	45°
PL.6.16	215	102	65	23	102	60	45° [†]	45°
PL.6.17	215	102	65	9	102	46	60° [†]	45°
PL.6.18	215	102	65	23	102	60	60° [†]	45°

Associated special bricks: PL.3, AN.3

 $\label{eq:Note:} \textbf{Note:} \ \text{Some types of brick may not be available with A=215} \\ ^* \ \text{Suitable for quarter bond without cutting} \\ ^* \ \text{Suitable for half bond without cutting}$

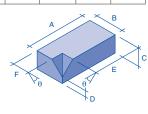
PL.6

Plinth internal return (short) (left or right hand)

Туре	Α	В	С	D	Е	F	θ
PL.5.1	215	102	65	9	159	46	45°
PL.5.2	215	102	65	23	173	60	45°

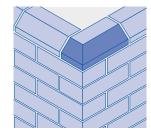
Associated special bricks: PL.2, PL.3

PL.5





Plinth external return (left or right hand)



Туре	Α	В	С	D	Е	F	θ
PL.7.1	215	102	65	9	159	46	45°
PL.7.2	215	102	65	23	173	60	45°

E F B C

Associated special brick: PL.3

PL.7

GROUP PL

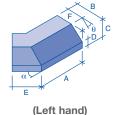
Plinth external angle (left or right hand)

Time	Α	В	С	D	Е	F	-01	0
Type	Α	D	C	ט		г	α	θ
PL.8.1	159	102	65	9	102	46	30°†	45°
PL.8.2	159	102	65	23	102	60	30°⁺	45°
PL.8.3	159	102	65	9	102	46	45°⁺	45°
PL.8.4	159	102	65	23	102	60	45°†	45°
PL.8.5	159	102	65	9	102	46	60° [†]	45°
PL.8.6	159	102	65	23	102	60	60°⁺	45°
PL.8.7	215	102	65	9	102	46	30°	45°
PL.8.8	215	102	65	23	102	60	30°	45°
PL.8.9	215	102	65	9	102	46	45°*	45°
PL.8.10	215	102	65	23	102	60	45°*	45°
PL.8.11	215	102	65	9	102	46	60°⁺	45°
PL.8.12	215	102	65	23	102	60	60°⁺	45°

Associated special bricks: PL.3, AN.2

PL.8





Overhanging Angled Cill

Туре	Α	В	С	α
I.C.1.1	140	65	7.5	30°
I.C.1.2	140	102	7.5	30°
I.C.1.3	140	215	7.5	30°
I.C.1.4	215	65	10	50°
I.C.1.5	215	102	10	50°
I.C.1.6	215	215	10	50°

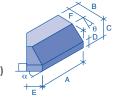
Plinth squint (left or right hand)

Туре	Α	В	С	D	Е	F	α	θ
PL.9.1	164	102	65	9	51	46	30°†	45°
PL.9.2	164	102	65	23	51	60	30°†	45°
PL.9.3	164	102	65	9	51	46	45°†	45°
PL.9.4	164	102	65	23	51	60	45°†	45°
PL.9.5	164	102	65	9	51	46	60° [†]	45°
PL.9.6	164	102	65	23	51	60	60°†	45°

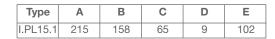
Associated special bricks: PL.3, AN.1

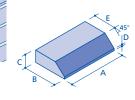
(Left hand)





Wide Bed Plinth Stretcher





PL.9

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Arch Bricks

GROUP AR

Typically used to provide structural stability in curved elements such as arches or for aesthetic detailing e.g. circular windows.

As a functional brick, typically used for structures such as industrial chimneys. Also particularly effective used as an aesthetic device producing a sweeping "curved" effect.

Tapered header

	UN	IIT DIMI	ENSION	IS	IDEAL SPAN*		
					DIMENSIONS	NUMBER OF	No. OF BRICKS†
Туре	Α	В	С	D		WHOLE BRICKS	IN SEMI-CIRCLE
AR.1.1	215	102	75	59	910mm	4	20 or 21
AR.1.2	215	102	75	64	1360mm	6	28 or 29
AR.1.3	215	102	75	66	1810mm	8	36 or 37
AR.1.4	215	102	75	69	2710mm	12	53 or 54

* It is possible to use standard arch bricks for spans other than the ideal, ranging from 800mm to 3000mm in half-brick increments, by varying the number of bricks, providing the slight tapering of the joints is aesthetically acceptable. The taper may vary between 0.9mm and 1.6mm for the smallest span to less than 1mm for the larger spans.

† Parallel joints of acceptable width are achieved using either of the alternative number of bricks in the semi-circle if the bricks confirm to the work sizes.

The actual size of bricks normally varies slightly from the work size. If the bricks on site are larger, then the smaller number of bricks in the semi-circle would be more appropriate and vice versa.

Note: Faced on 2 headers

AR.1



Radial header

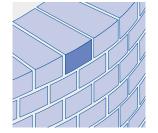
	IU	NIT DIM	ENSION	NS	IDEAL RADIUS		No. OF BRICKS
Type	Α	В	С	D	OUTER	OUTER INNER	
RD.1.1	215	108	65	52	450mm	235	6
RD.1.2	215	108	65	70	675mm	460	9
RD.1.3	215	108	65	80	900mm	685	12
RD.1.4	215	108	65	89	1350mm	1135	18
RD.1.5	215	108	65	97	2250mm	2035	30
RD.1.6	215	108	65	103	5400mm	5185	72
		I	1	I		I	

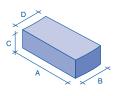
* Dimensions B and D in types RD.1 are segmental lengths

Note: Faced on 2 headers

Radial stretcher

Radial Bricks





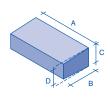
RD.1

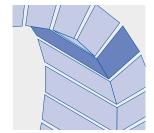
Tapered stretcher

	UN	IIT DIM	ENSION	IS	IDEAL SPAN*		
			DIMENSIONS	NUMBER OF	No. OF BRICKS†		
Туре	Α	В	С	D		WHOLE BRICKS	IN SEMI-CIRCLE
AR.2.1	215	102	75	48	910mm	4	24 or 25
AR.2.2	215	102	75	55	1360mm	6	33 or 34
AR.2.3	215	102	75	58	1810mm	8	41 or 42
AR.2.4	215	102	75	63	2710mm	12	58 or 59

* This format is not as versatile in application as the AR series because the longer voussoir joint accentuates splays. Tolerance allowances limit versatility further.

† Parallel joints of acceptable width are achieved using either of the alternative number of bricks in the semi-circle if the bricks confirm to the work sizes.

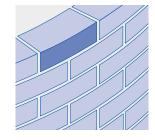


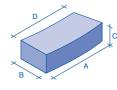


	UN	IT DIME	ENSION	S	IDEAL I	RADIUS	No. OF BRICKS
Туре	Α	В	С	D	OUTER	INNER	IN QUADRANT
RD.2.1	226	102	65	172	450mm	347	3
RD.2.2	226	102	65	190	675mm	572	4.5
RD.2.3	226	102	65	199	900mm	797	6
RD.2.4	226	102	65	208	1350mm	1247	9
RD.2.5	226	102	65	215	2250mm	2147	15
RD.2.6	226	102	65	221	5400mm	5297	36

* Dimensions B and D in types RD.1 are segmental lengths

Note: Faced on 2 headers





AR.2

RD.2

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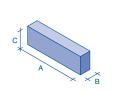
Soldier return

GROUP SL

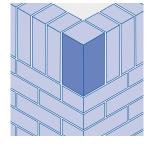
JP SL Typically used to mask reinforced concrete frames and for interior work.

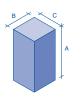
Brick face slip

Туре	Α	В	С
SL.1.1	215	25	65
SL.1.2	215	30	65
SL.1.3	215	40	65
SL.1.4	215	50	65







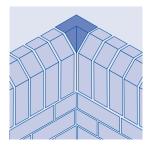


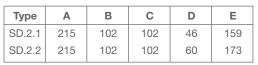
Туре	Α	В	С	
SD.1.1	215	65	65	
SD.1.2	215	102	102	

SD.1

SL.1

Internal Soldier return to single Cant on end



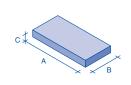




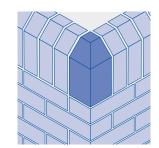
SD.2

Brick bed slip

Туре	Α	В	С
SL.2	215	102	25

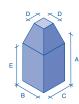






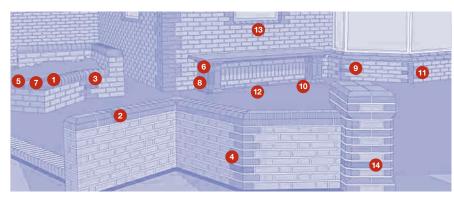
External Soldier return to single Cant on end

Туре	Α	В	С	D	Е
SD.3.1	215	102	102	46	159
SD.3.2	215	102	102	60	173



SD.3

SL.2



1. BN.10.2 Bullnose External Return

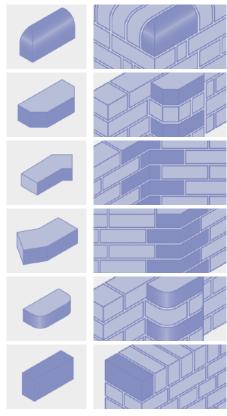
2. AN.6.1/AN.6.2 Double Cant

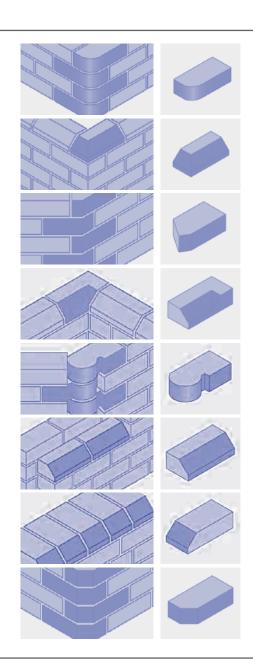
3. AN.3.2 45° Internal Angle

4. AN.2.2 45° External Angle

5. BN.2.1/BN.2.2 Double Bulinose

6. BD.1.3 Standard Brick Fair Faced





7. BN.1.1/BN.1.2 **Single Bullnose**

8. PL.7.1/PL.7.2
Plinth External Return

9. AN.1.2 45° Squint Brick

10. PL.4.1/PL.4.2 Plinth Internal Return

11. I.UJ.7.1 Easyangle®

12. PL.3.1/PL.3.2 Plinth Stretcher

13. PL.2.1/PL.2.2 Plinth Header

14. AN.5.1/AN.5.2 Single Cant

Specification

0 Introduction

0.1 Forms of bricks

Although the diagrams in this standard indicate solid bricks, bricks of special shapes may be solid, frogged, cellular or perforated.

NOTE: The specifier should ascertain from supplier the exact nature of any voids and consider the structural implications as well as the implications for constructional detailing.

0.2 Faced surfaces

The surfaces of the bricks which will be faced are indicated by shading in the diagrams shown in the tables in this standard. Surfaces not visible in the diagrams are not faced.

NOTE: If specifiers require other surfaces to be faced, they should consult the manufacturers or suppliers.

0.3 Colour and surface texture

With some types of bricks and manufacturing techniques, it is not possible to ensure that the colour and texture of all the exposed faces of special shapes exactly match those of the corresponding standard bricks.

NOTE: Specifiers should consult with the supplier at an early stage to establish their needs for a particular application.

0.4 Left and right-handed bricks

Left or right-handed versions will sometimes need to be specified, e.g.

- (a) where the special shape brick is asymmetric, e.g. a single bullnose stop (Type BN.3);
- (b) where the directional nature of the surface texture of the bricks requires them to be laid in one aspect to avoid variations in appearance in the built wall.

When a brick has a handed version the diagram indicates whether a left-hand (LH) or right-hand (RH) version is shown.

NOTE: The need to specify handed versions of single-frogged bricks in positions where compressive strength may be critical (see 0.5) may be avoided by, on the appropriate hand, filling the frog with mortar before laying

it frog down. An example is the use of squint bricks (Group 4, Type AN.1) at both sides of an opening.

0.5 Compressive strength

Clay and Calcium Silicate bricks of special shapes and sizes may have a lower compressive strength than bricks made to EN771–1 and EN771–2 from the same raw materials.

NOTE: In positions where compressive strength may be critical, e.g. under the ends of lintels, it is usually necessary to fill any frogs in the bricks with mortar. Where strength is a critical design requirement the manufacturers should be consulted.

0.6 Durability

Bricks of special shapes which are to be used in positions where they are liable to be saturated and frozen, e.g. in parapets, copings, cappings and sills, need to be suitably durable (see item (e) of appendix A).

NOTE: Specifiers should consult with manufactures or suppliers regarding the suitability of the brick for use in such exposed positions.

1 Scope

This British Standard specifies the shapes and dimensions of bricks of special shapes and sizes made from clay, calcium silicate or concrete and intended for use in the construction of brick masonry. The dimensions and other requirements of standard bricks are covered by EN771–1, EN771–2, EN771–3.

NOTE: The purchaser should supply with his enquiry or order the information given in appendix A.

2 Shapes and dimensions

Unless otherwise stated all dimensions are in millimetres.

Bespoke Products

EH Smith have a commitment to service and excellence in masonry. We have developed our own in-house production facility and a range of products to aid designers and construction professionals. Advanced Construction Systems, based in Leicester, are at the forefront in quality and innovation within the sector.

FastArch Prefabricated arch systems

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Appendices

Appendix A

Information to be considered when ordering bricks of special shapes.

When determining the specification of special shaped bricks consider which of the physical properties will be of significance in the finished brickwork and specify only these. Specification of properties which are not essential may restrict the choice of brick offered. Specifiers should pay particular attention to the clauses referred to in other British Standards in order to assess the significance of each property and the need to specify it.

The following information should be considered when ordering bricks of special shapes.

- (a) Product name or colour and texture (see 0.3)
- (b) Type number and description, right or left hand (if relevant, see 0.4), e.g. BN.3, single bullnose stop, right hand.
- (c) Faced surfaces (see 0.2)
- (d) Durability requirements. Bricks of special shapes that are to be used in positions wher they are liable to be saturated and subject to freeze/thaw cycling, e.g. in parapets, copings, cappings and sills need to be suitably duarable.

NOTE: Specifiers should consult with manufacturers or suppliers regarding the suitablilty of the bricks for use in such exposed positions.

In addition:

- for freeze/thaw resistance of high density (HD) clay bricks, see 5.3.6 and B.3 of pr EN771–1 and annex C to this standard;
- (2) for freeze/thaw resistance of calcium silicate bricks, see 5.7 of BS EN771-2;
- (3) for freeze/thaw resistance of concrete bricks, see 5.7 of pr EN771–3;
- (4) for guidance on the use of bricks and mortars in position of varying degrees of exposure, see table 13 of BS 5628–3:2001.

- (e) Requirements for structural use, see BS EN771 series of standards and BS5628–1 and 2.
- (f) Where products are used to be other than in the orientation described in this standard, a drawing showing the proposed application should be included with the order to allow the implications for manufacture to be considered, e.g. the effect of perforation patterns if the brick is to be used in a situation where it is structurally loaded perpendicular to the line of the perforations.
- (g) Any special requirement for dimensional tolerances, see BS EN771 series of standards.
- (h) Any special requirement not covered by this standard, e.g. position of any perforations and holes (see 0.1), or acid-resistance.
- (i) Quantity.
- (j) Packaging requirements.
- (k) A schedule of deliveries to be agreed with the suppliers.

Appendix B

Guidance on the limits for size of individual bricks other than group NS.

Table 15

Guidance on the limits of size of individual bricks other than group NS

Work size dimension (mm) Tolerance (mm)

Up to 25 ±2 >25 to 120 ±3 >120 to 220 ±4 More than 220 ±5

See also paragraph (a) in the Foreword.