

**NOTE:**

Cavity closer sizes are nominal and should always be built-in as the brickwork progresses. The closer allows all necessary tolerances to ensure the smooth fitting of windows and fixings. It is recommended that braces are used to ensure that closers are not 'pinched'

during the build programme, thus avoiding the need to shoot frames in during the fitting process. **NB: Braces must be used if Howarth are to fit frames.** Window sizes shown are nominal and will be approx 5mm less than the size shown to allow for building in.



## 30 CAVITY CLOSERS (STANDARD MODULE)

	UNIVERSAL CLOSER SYSTEM		BIGBLOK CLOSER SYSTEM	
	75mm	100mm	125mm	150mm
	CODE	CODE	CODE	CODE

HEIGHT	630			
600	CC106/75	CC106/100	CC106/125	CC106/150
750	CC107/75	CC107/100	CC107/125	CC107/150
900	CC109/75	CC109/100	CC109/125	CC109/150
1050	CC110/75	CC110/100	CC110/125	CC110/150
1200	CC112/75	CC112/100	CC112/125	CC112/150
1350	CC113/75	CC113/100	CC113/125	CC113/150
1500	CC115/75	CC115/100	CC115/125	CC115/150

HEIGHT	1200			
600	CC206/75	CC206/100	CC206/125	CC206/150
750	CC207/75	CC207/100	CC207/125	CC207/150
900	CC209/75	CC209/100	CC209/125	CC209/150
1050	CC210/75	CC210/100	CC210/125	CC210/150
1200	CC212/75	CC212/100	CC212/125	CC212/150
1350	CC213/75	CC213/100	CC213/125	CC213/150
1500	CC215/75	CC215/100	CC215/125	CC215/150

HEIGHT	1770			
600	CC306/75	CC306/100	CC306/125	CC306/150
750	CC307/75	CC307/100	CC307/125	CC307/150
900	CC309/75	CC309/100	CC309/125	CC309/150
1050	CC310/75	CC310/100	CC310/125	CC310/150
1200	CC312/75	CC312/100	CC312/125	CC312/150
1350	CC313/75	CC313/100	CC313/125	CC313/150
1500	CC315/75	CC315/100	CC315/125	CC315/150

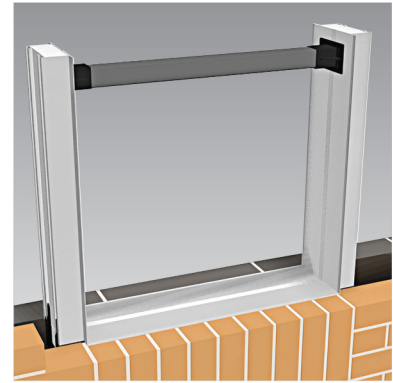
HEIGHT	2340			
600	CC406/75	CC406/100	CC406/125	CC406/150
750	CC407/75	CC407/100	CC407/125	CC407/150
900	CC409/75	CC409/100	CC409/125	CC409/150
1050	CC410/75	CC410/100	CC410/125	CC410/150
1200	CC412/75	CC412/100	CC412/125	CC412/150
1350	CC413/75	CC413/100	CC413/125	CC413/150
1500	CC415/75	CC415/100	CC415/125	CC415/150

HEIGHT	2900			
600	CC506/75	CC506/100	CC506/125	CC506/150
750	CC507/75	CC507/100	CC507/125	CC507/150
900	CC509/75	CC509/100	CC509/125	CC509/150
1050	CC510/75	CC510/100	CC510/125	CC510/150
1200	CC512/75	CC512/100	CC512/125	CC512/150
1350	CC513/75	CC513/100	CC513/125	CC513/150
1500	CC515/75	CC515/100	CC515/125	CC515/150

## BUILDING IN A CAVALOK CAVITY CLOSER

### STAGE 1

(Illustrated right) Build the inner blockwork and outer brickwork of the cavity wall up to the window sill level. Select the correct cavity closer for the size of window. Place the cavity closer onto the brickwork in the correct position with the flanges sitting on the inner and outer skins and with the timber brace to the top.



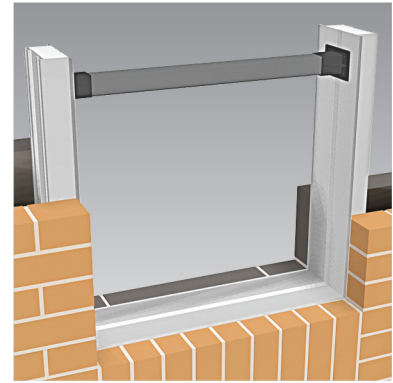
## 31 CAVITY CLOSERS (NARROW MODULE)

	UNIVERSAL CLOSER SYSTEM		BIGBLOK CLOSER SYSTEM	
	75mm	100mm	125mm	150mm
	CODE	CODE	CODE	CODE
<b>488</b>				
HEIGHT				
600	CCN06/75	CCN06/100	CCN06/125	CCN06/150
750	CCN07/75	CCN07/100	CCN07/125	CCN07/150
900	CCN09/75	CCN09/100	CCN09/125	CCN09/150
1050	CCN10/75	CCN10/100	CCN10/125	CCN10/150
1200	CCN12/75	CCN12/100	CCN12/125	CCN12/150
1350	CCN13/75	CCN13/100	CCN13/125	CCN13/150
1500	CCN15/75	CCN15/100	CCN15/125	CCN15/150
<b>915</b>				
HEIGHT				
600	CC2N06/75	CC2N06/100	CC2N06/125	CC2N06/150
750	CC2N07/75	CC2N07/100	CC2N07/125	CC2N07/150
900	CC2N09/75	CC2N09/100	CC2N09/125	CC2N09/150
1050	CC2N10/75	CC2N10/100	CC2N10/125	CC2N10/150
1200	CC2N12/75	CC2N12/100	CC2N12/125	CC2N12/150
1350	CC2N13/75	CC2N13/100	CC2N13/125	CC2N13/150
1500	CC2N15/75	CC2N15/100	CC2N15/125	CC2N15/150
<b>1344</b>				
HEIGHT				
600	CC3N06/75	CC3N06/100	CC3N06/125	CC3N06/150
750	CC3N07/75	CC3N07/100	CC3N07/125	CC3N07/150
900	CC3N09/75	CC3N09/100	CC3N09/125	CC3N09/150
1050	CC3N10/75	CC3N10/100	CC3N10/125	CC3N10/15
1200	CC3N12/75	CC3N12/100	CC3N12/125	CC3N12/150
1350	CC3N13/75	CC3N13/100	CC3N13/125	CC3N13/150
1500	CC3N15/75	CC3N15/100	CC3N15/125	CC3N15/150
<b>1770</b>				
HEIGHT				
600	CC4N06/75	CC4N06/100	CC4N06/125	CC4N06/150
750	CC4N07/75	CC4N07/100	CC4N07/125	CC4N07/150
900	CC4N09/75	CC4N09/100	CC4N09/125	CC4N09/150
1050	CC4N10/75	CC4N10/100	CC4N10/125	CC4N10/150
1200	CC4N12/75	CC4N12/100	CC4N12/125	CC4N12/150
1350	CC4N13/75	CC4N13/100	CC4N13/125	CC4N13/150
1500	CC4N15/75	CC4N15/100	CC4N15/125	CC4N15/150
<b>2190</b>				
HEIGHT				
600	CC5N06/75	CC5N06/100	CC5N06/125	CC5N06/150
750	CC5N07/75	CC5N07/100	CC5N07/125	CC5N07/150
900	CC5N09/75	CC5N09/100	CC5N09/125	CC5N09/150
1050	CC5N10/75	CC5N10/100	CC5N10/125	CC5N10/150
1200	CC5N12/75	CC5N12/100	CC5N12/125	CC5N12/150
1350	CC5N13/75	CC5N13/100	CC5N13/125	CC5N13/150
1500	CC5N15/75	CC5N15/100	CC5N15/125	CC5N15/150

## BUILDING IN A CAVALOK CAVITY CLOSER

### STAGE 2

(Illustrated right) Braced cavity closer provides a solid template for brickwork. Use brick ties provided to secure cavity closer to brickwork. Build inner and outer coursework up to the lintel height. When complete remove bracing from cavity closer, place lintel tight to the head of cavity closer on brick course.



### 30 CAVITY CLOSERS STORVIK (STANDARD MODULE)

	UNIVERSAL CLOSER SYSTEM		BIGBLOK CLOSER SYSTEM	
	75mm	100mm	125mm	150mm
	CODE	CODE	CODE	CODE
HEIGHT	2193			
600	CCSK506/75	CCSK506/100	CCSK506/125	CCSK506/150
750	CCSK507/75	CCSK507/100	CCSK507/125	CCSK507/150
900	CCSK509/75	CCSK509/100	CCSK509/125	CCSK509/150
1050	CCSK510/75	CCSK510/100	CCSK510/125	CCSK510/150
1200	CCSK512/75	CCSK512/100	CCSK512/125	CCSK512/150
1350	CCSK513/75	CCSK513/100	CCSK513/125	CCSK513/150
1500	CCSK515/75	CCSK515/100	CCSK515/125	CCSK515/150

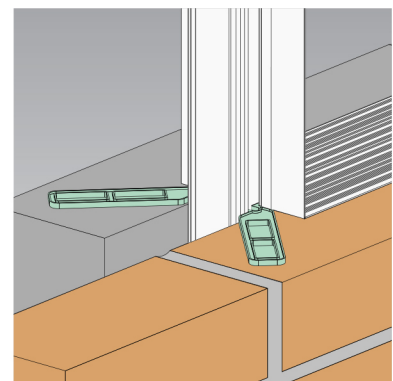
### 31 CAVITY CLOSERS STORVIK (NARROW MODULE)

	UNIVERSAL CLOSER SYSTEM		BIGBLOK CLOSER SYSTEM	
	75mm	100mm	125mm	150mm
	CODE	CODE	CODE	CODE
HEIGHT	2198			
600	CCSK5N06/75	CCSK5N06/100	CCSK5N06/125	CCSK5N06/150
750	CCSK5N07/75	CCSK5N07/100	CCSK5N07/125	CCSK5N07/150
900	CCSK5N09/75	CCSK5N09/100	CCSK5N09/125	CCSK5N09/150
1050	CCSK5N10/75	CCSK5N10/100	CCSK5N10/125	CCSK5N10/150
1200	CCSK5N12/75	CCSK5N12/100	CCSK5N12/125	CCSK5N12/150
1350	CCSK5N13/75	CCSK5N13/100	CCSK5N13/125	CCSK5N13/150
1500	CCSK5N15/75	CCSK5N15/100	CCSK5N15/125	CCSK5N15/150

#### NOTE:

Cavity closer sizes are nominal and should always be built-in as the brickwork progresses. The closer allows all necessary tolerances to ensure the smooth fitting of windows and fixings. It is recommended that braces are used to ensure that closers are not 'pinched'

during the build programme, thus avoiding the need to shoot frames in during the fitting process. **NB: Braces must be used if Howarth are to fit frames.** Window sizes shown are nominal and will be approx 5mm less than the size shown to allow for building in.

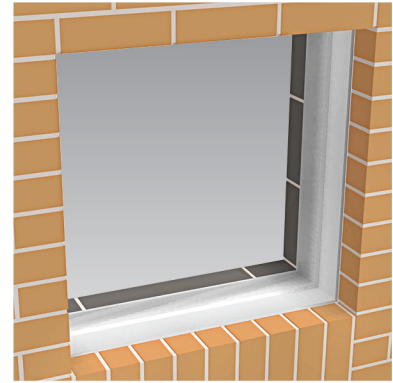


(Illustrated right) Brick ties should be fitted as shown every second brick course.

## BUILDING IN A CAVALOK CAVITY CLOSER

### STAGE 3

(Illustrated right) When all the coursework and masonry have been completed remove bracing. Secure the fixing cleats provided to both sides of the frame. Offer the window to the opening and ensure correct positioning and alignment before fixing in finished position.



## 30 CAVITY CLOSERS SLIDING SASH

	UNIVERSAL CLOSER SYSTEM		BIGBLOK CLOSER SYSTEM	
	75mm	100mm	125mm	150mm
	CODE	CODE	CODE	CODE
HEIGHT	410			
1050	CCVS0410/75	CCVS0410/100	CCVS0410/125	CCVS0410/150
1200	CCVS0412/75	CCVS0412/100	CCVS0412/125	CCVS0412/150
1350	CCVS0413/75	CCVS0413/100	CCVS0413/125	CCVS0413/150
1500	CCVS0415/75	CCVS0415/100	CCVS0415/125	CCVS0415/150
1650	CCVS0416/75	CCVS0416/100	CCVS0416/125	CCVS0416/150
HEIGHT	635			
1050	CCVS0610/75	CCVS0610/100	CCVS0610/125	CCVS0610/150
1200	CCVS0612/75	CCVS0612/100	CCVS0612/125	CCVS0612/150
1350	CCVS0613/75	CCVS0613/100	CCVS0613/125	CCVS0613/150
1500	CCVS0615/75	CCVS0615/100	CCVS0615/125	CCVS0615/150
1650	CCVS0616/75	CCVS0616/100	CCVS0616/125	CCVS0616/150
HEIGHT	860			
1050	CCVS0810/75	CCVS0810/100	CCVS0810/125	CCVS0810/150
1200	CCVS0812/75	CCVS0812/100	CCVS0812/125	CCVS0812/150
1350	CCVS0813/75	CCVS0813/100	CCVS0813/125	CCVS0813/150
1500	CCVS0815/75	CCVS0815/100	CCVS0815/125	CCVS0815/150
1650	CCVS0816/75	CCVS0816/100	CCVS0816/125	CCVS0816/150
HEIGHT	1085			
1050	CCVS1010/75	CCVS1010/100	CCVS1010/125	CCVS1010/150
1200	CCVS1012/75	CCVS1012/100	CCVS1012/125	CCVS1012/150
1350	CCVS1013/75	CCVS1013/100	CCVS1013/125	CCVS1013/150
1500	CCVS1015/75	CCVS1015/100	CCVS1015/125	CCVS1015/150
1650	CCVS1016/75	CCVS1016/100	CCVS1016/125	CCVS1016/150
HEIGHT	1630			
1050	CCVS1610/75	CCVS1610/100	CCVS1610/125	CCVS1610/150
1200	CCVS1612/75	CCVS1612/100	CCVS1612/125	CCVS1612/150
1350	CCVS1613/75	CCVS1613/100	CCVS1613/125	CCVS1613/150
1500	CCVS1615/75	CCVS1615/100	CCVS1615/125	CCVS1615/150
1650	CCVS1616/75	CCVS1616/100	CCVS1616/125	CCVS1616/150
HEIGHT	1695			
1050	CCVS1710/75	CCVS1710/100	CCVS1710/125	CCVS1710/150
1200	CCVS1712/75	CCVS1712/100	CCVS1712/125	CCVS1712/150
1350	CCVS1713/75	CCVS1713/100	CCVS1713/125	CCVS1713/150
1500	CCVS1715/75	CCVS1715/100	CCVS1715/125	CCVS1715/150
1650	CCVS1716/75	CCVS1716/100	CCVS1716/125	CCVS1716/150
HEIGHT	1855			
1050	CCVS1810/75	CCVS1810/100	CCVS1810/125	CCVS1810/150
1200	CCVS1812/75	CCVS1812/100	CCVS1812/125	CCVS1812/150
1350	CCVS1813/75	CCVS1813/100	CCVS1813/125	CCVS1813/150
1500	CCVS1815/75	CCVS1815/100	CCVS1815/125	CCVS1815/150
1650	CCVS1816/75	CCVS1816/100	CCVS1816/125	CCVS1816/150



# HELP US TO PROVIDE AN ACCURATE QUOTATION

## QUOTATIONS

In order for Howarth to process enquiries quickly and efficiently and return an accurate quotation we require the following information to be provided (where possible).

- Full company contact details.
- Site address and information (if known).
- Full up to date detailed drawings (including plans and elevations).
- Window schedule showing window references, location, sizes and location of escape windows. If possible, use the correct window coding, explained on this page.
- Full window specification including:

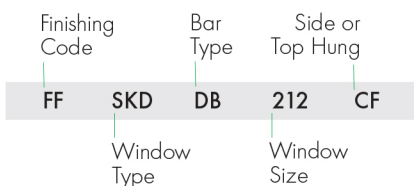
- Window style.
- Required colour of finish.
- Locking mechanism type.
- Hinge type.
- Handle type.
- Glazing requirements.

## WINDOW CODING

We offer various window ranges in both side and top hung casements, various bar configurations and finishing options. Throughout the catalogue we have used industry standard coding, however, these standard codes will not be represented on our quotations. All window styles quoted will be represented by graphics on the quotation similar to the quotation example shown below.

## UNDERSTANDING WINDOW CODES

For example, for a factory finished Storvik double glazed frame with Georgian bars, 1200mm x 1200mm with side hung sash, the code would be:



## VENTILATION CALCULATIONS

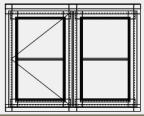
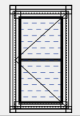
If ventilation calculations are required some additional information is required.

- Type of ventilation calculations required (background ventilation or rapid ventilation).
- Full up to date floor plans showing floor areas.
- Type of ventilation system proposed.
- Information on any additional ventilation mechanisms to be used.

## INSTALLATION SERVICE

Over many years, we have fitted substantial quantities of our own frames and have an established network of proven CSCS registered fitting teams, working to strict procedures and to the highest standards.

Please contact the Sales Office for more information on 01469 530577.

Item No: 1	Dimensions: 1200 mm Wd x 1050 mm Ht	Frame Code: SKD 1200X1050	Plot Ref: PLOT 1	
Quantity: 1	Finish: White RAL-9010	Room: KITCHEN		
Weight: 41.73 Kg	Bar Type: 19mm Plant On	Window No: W1		
Comments:				
Glass	LE Double Glazed (4mm Low E Clear/Argon Gas/4mm Clear Eco)		Pattern: None	
Spacer: Silver Standard	Gas Fill: Argon	Internal Bar: 13mm Duplex for 19mm Bars	Leading: Not Req.	
Glass Comments			Price Each: £0.00	Price Total: £0.00
Quote Item No: 2	100mm Cavity Closer	1,205 mm Wd x 1,050 mm Ht	Price Each: £0.00	Price Total: £0.00
Cavity Closer	100mm	Night Vents	8000mm White	Handle Colour
Hinge Type	Reflex	Head Drip	Required	Locking Mechanism
				Secure By Design
Glazing Type	DOUBLE GLAZED	Handle Type	Locking	
Sill Type	Standard 194mm	Weather Seal Colour	White	
Item No: 3	Dimensions: 630 mm Wd x 1200 mm Ht	Frame Code: SKD 630X1200	Plot Ref: PLOT 1	
Quantity: 1	Finish: White RAL-9010	Room: W.C.		
Weight: 24.63 Kg	Bar Type: 19mm Plant On	Window No: W2		
Comments:				
Glass	LE Double Glazed (4mm Low E Clear/Argon Gas/4mm Sola Obscure)		Pattern: Bark	
Spacer: Silver Standard	Gas Fill: Argon	Internal Bar: 13mm Duplex for 19mm Bars	Leading: Not Req.	
Glass Comments			Price Each: £0.00	Price Total: £0.00
Quote Item No: 4	100mm Cavity Closer	636 mm Wd x 1,200 mm Ht	Price Each: £0.00	Price Total: £0.00
Cavity Closer	100mm	Night Vents	4000mm White	Handle Colour
Hinge Type	Reflex	Head Drip	Required	Locking Mechanism
				Secure By Design
Glazing Type	DOUBLE GLAZED	Handle Type	Locking	
Sill Type	Standard 194mm	Weather Seal Colour	White	
Additional Items				
Item No:	Customer Ref:	Description:	Comments:	Qty: Price Each: Price Total:
5		BRICK TIES	Brick Ties are supplied Free Of Charge with Cavity Closers. Ref Quote: 00000	52 £0.00 £0.00
6		FIXING CLEATS	Fixing supplied free for all Frames purchased with our Cavity Closers. Ref Quote: 00000	14 £0.00 £0.00

QUOTE TOTAL: £0.00

P.O No: \_\_\_\_\_ Print Name: \_\_\_\_\_ Signed: \_\_\_\_\_ Date: DD . MM . YY

The prices on this quotation are exclusive of VAT.

Please sign and return if this quotation meets your requirements.

If you require your order to go into the next available production week please return signed quotation before the close of business Friday.