

HALO System 10 System 10 - Flush Sash Flush 70

HALO SYSTEM 10



'**HALO System 10**' is a 70mm chamfered window and door system.

- Kenrick locking on windows.
- Yale locking on doors.
- Black gasket only.
- Black warmedge spacer bar as standard (white optional).
- Trickle vents can be fitted into sashes or large heads.

SYSTEM 10 - FLUSH SASH



'**System 10-Flush Sash**' is a reverse butt welded chamfered casement window with a flush sash.

- Centurion lock fitted as standard.
- For PAS 24 - Optional Maco Rail lock (No night vent position) and Hinge protectors must be specified when ordering.
- Spring Catch Restrictor available.
- Black gasket only.
- Black warmedge spacer bar as standard (white optional).
- Trickle vents can be fitted into sashes or large heads.

MAXIMUM CASEMENT SASH SIZES

Top Hung - 1250mm wide x 1250mm high - Maximum area 1m²
Side Hung - 700mm wide x 1350mm high

SYSTEM 10 - FLUSH SASH

Please Note: Flush sash and direct glaze fixed panes have different beads to accommodate 28mm sealed units.

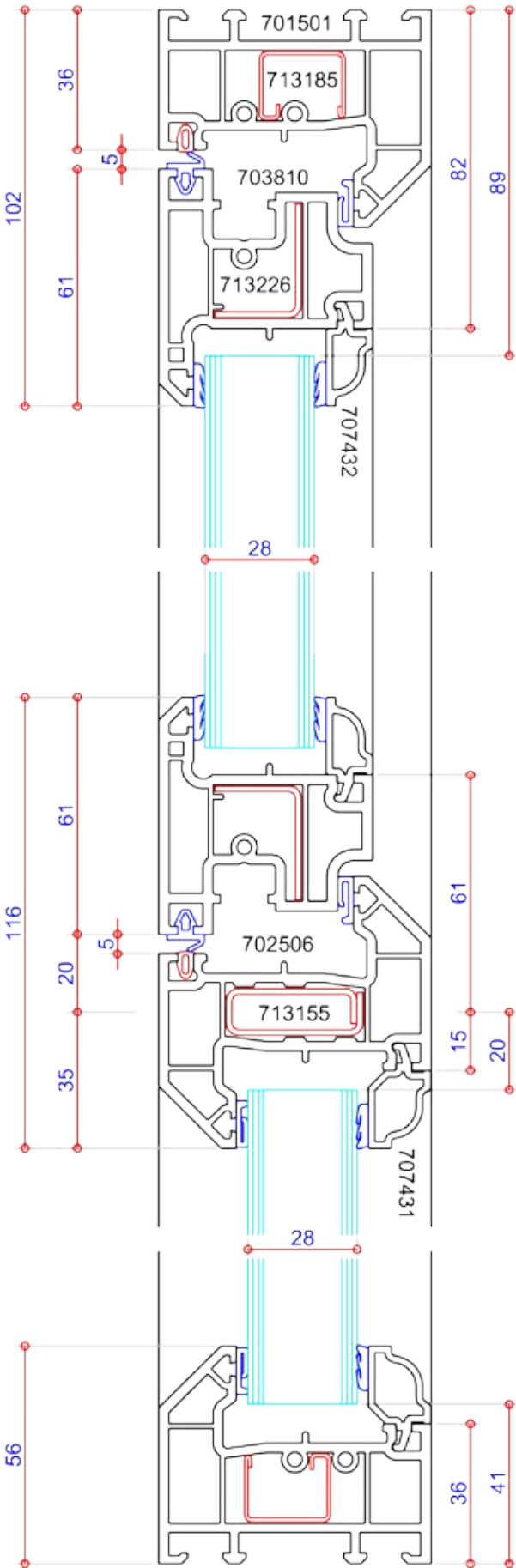
D.G Bead
P10432



D.G Bead
P10431



CROSS SECTION
SYSTEM 10 FLUSH



FLUSH 70

'Flush 70' offers the appearance of a traditional timber window, the 70mm frame depth and flush casement design combine to offer a cost effective alternative to timber.

'Flush 70' is an equal sightline sculptured frame inside / flush fitting sash outside.

- Centurion lock fitted as standard.
- For PAS 24 - Optional Maco Rail lock (No night vent position) and Hinge protectors must be specified when ordering.
- Spring Catch Restrictor available.
- 70mm Halo Rustique Sculptured Outer Frame
- Flush Fitted Welded Sashes
- Mechanically Jointed Transoms and Mullions with arris detail
- Traditional Furniture Options
- Black gasket only.
- Black warmedge spacer bar as standard (white optional).
- Trickle vents can be fitted into sashes or large heads
- Available "A" Rated - from 'U' value 1.3



**FLUSH 70
WELDED CORNERS**

FLUSH 70 FULL MECHANICAL JOINT OPTION

'Flush 70 Full Mechanical Joint' is a fully mechanically jointed chamfered casement window with a mechanically jointed flush sash.

- As Flush 70 above except:
- Mechanically jointed frame, transom and mullion
- Mechanically jointed flush sash



**FLUSH 70
FULL MECHANICAL**



FLUSH 70 EXTERNAL VIEW



FLUSH 70 INTERNAL VIEW

FLUSH 70 ZERO SIGHTLINE MULLION OPTION

Exclusive to CWG on the Flush 70 range offering a 34mm improved sightline in comparison to a standard mullion. Innovative design can be used as a floating mullion or as a scribed mullion attached to a dummy sash. Not available for windows incorporating cruciform design.

Standard Mullion



162mm Sash / Mullion / Sash Sightline
External View



Zero Sightline Mullion



128mm Sash / Mullion / Sash Sightline
External View

EXCLUSIVE

34mm
IMPROVED
Sightlines
Per Mullion



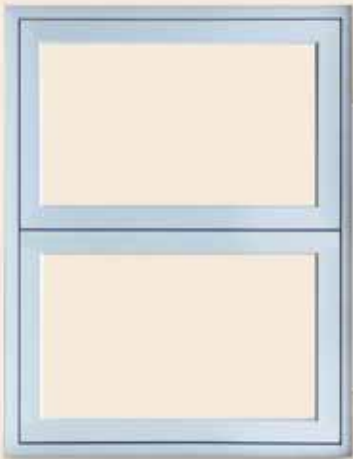
162mm Sash / Mullion / Sash Sightline
Internal View



128mm Sash / Mullion / Sash Sightline
Internal View

Also available as a zero sightline transom

Zero Sightline Transom



Flush 70 available with zero sightline transom for improved sightlines.

RunThru Sash Horns option available with zero sightline transom and dummy sash





**FULL MECHANICAL FLUSH 70
INTERNAL VIEW**



**FLUSH 70 WELDED SASH
INTERNAL VIEW**



**MECHANICALLY JOINTED
TRANSOMS & MULLIONS**

ASTRAGAL BARS

20mm astragal bar available in all colour options for both standard and flush sash



EXTERNAL BAR



INTERNAL BAR

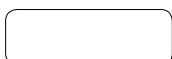


20mm Choices Astragal Bar (STANDARD)
'Clip Fit' with 18mm integral bar

Available in:
Rosewood, Golden Oak, White Ash, Clotted Cream, Anthracite Grey, Irish Oak, Chartwell Green, Painswick and Schwarzbraun Black.

COLOUR OPTIONS

NON FOIL



Smooth White

STANDARD FOILS

(Stock Items)
Available both sides
or on Smooth White



Rosewood



Golden Oak

SPECIAL FOILS

Available both sides or on Smooth White
**Supplied on a White base substrate*



Schwarzbraun Black



Cream*



White Ash
Both sides only

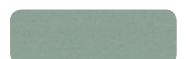


Irish Oak



Anthracite Grey

Available on Smooth
White only



Chartwell Green



Painswick Grey

Tudor Finish (Schwarzbraun Black outer frame with White Ash sashes) outside on White Ash inside also available.

LOCK CHOICES - SYSTEM 10 - FLUSH SASH or FLUSH 70



**CENTURION WINDOW LOCK
FITTED TO FLUSH SASHES**



**OPTIONAL MACO RAIL
WINDOW LOCK**



**HINGE PROTECTOR
FOR PAS24**

Centurion window locks are fitted as standard on both System 10 Flush and Flush 70 sashes. When PAS 24 is requested the optional Maco Rail window lock (No night vent position) and Hinge protectors must be specified.

A spring catch restrictor is available, however we do not recommend this for night vent purposes.



**SPRING CATCH
RESTRICTOR**

HINGE CHOICES

As well as the standard friction hinges used there is also the option of upgrading to Integrated Restrictor hinges or Mega Trojan hinges.

The Mega Trojan option will give a 450mm clear opening with a slim frame to centre mullion position of 560mm.



MEGA TROJAN



Fig.1



Fig.2

Please Note:

When using the Mega Trojan with standard sash and slim frame there is approx 5mm clearance between the open sash and the edge of the frame (Fig.1). When used with the Flush sash the clearance is 20mm (Fig.2). These points are significant where render or hanging tiles are present.

HANDLE CHOICES

The standard inline handle range offers a choice of 8 colours including:

White, Black, Hardex Gold, Hardex Chrome, Hardex Satin, Hardex Bronze, Hardex Graphite and an Antique 'hammered' Black.



STANDARD HANDLES

1 - WHITE

2 - BLACK

3 - HARDEX GOLD

4 - HARDEX CHROME

5 - HARDEX BRONZE

6 - HARDEX SATIN

7 - HARDEX GRAPHITE

8 - ANTIQUE BLACK

The Classic Range



**CLASSIC BLACK
MONKEY TAIL**



**CLASSIC PEWTER
MONKEY TAIL***



**CLASSIC BLACK
PEAR DROP**



**CLASSIC PEWTER
PEAR DROP***



The Classic Range is:
Handmade so exact match is not guaranteed.
Matching 'Dummy Stay' for all window types.

*Colour is described as Pewter Patina.

The Elegance Range

Elegance Range Available as Monkey Tail or Tear Drop in colours shown below



Antique Black



Hardex Gold



Hardex Chrome



Hardex Graphite



Antique Black



Hardex Gold



Hardex Chrome



Hardex Graphite



Elegance Range Matching Dummy Stay



Tear Drop Range Matching Dummy Stay

The Vintage Range

Vintage Range Available as Monkey Tail or Pear Drop in all 9 colours shown below



Pewter Patina*



Satin Chrome



Antique Bronze



Bronze Red Tint



Graphite**



White



Black



Electro Gold



Polished Chrome

**Does not match Pewter Patina colour from the Classic range*

***Does not match Graphite colour from the Elegance range*



Dummy stays only available for Flush 70 range



Overhead Concealed Trickle Vent Cover

The aesthetic method of fitting 2700EA trickle vent(s) to the heads of frames. Suitable for any CWG pvcu or aluminium product for either 'new build' or 'replacement' installation.

CONCEALED TRICKLE VENTS



CONCEALED



Trickle vents fitted with overhead drip

STANDARD TRICKLE VENTS



VISIBLE

Trickle vents fitted through sashes



Trickle vents fitted into head of frame and concealed behind overhead drip cover

Plaster Line Clearances

| | |
|---|------------------------------------|
| Kömmerring large outer frame (67mm) | 13mm |
| Flush 70 large outer frame (72mm) | 25mm |
| Residence 9 / Residence 7 | 22mm |
| 70mm Rehau large outer frame (72mm) | 25mm |
| Heritage Vertical Slider | 16mm |
| ALUK large outer frame (73mm) | 18mm (will need packing by others) |
| Trickle Vent fitted into ALUK 40mm add on | 16mm (will need packing by others) |

NB: Not suitable for use with add on when trickle vent is fitted through the head of frame

Internal Plaster line Clearance

From top of frame to top of internal trickle vent cover



Drip Cover Powder Coated Colour Options



White



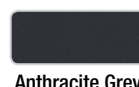
Cream



Painswick Grey



Chartwell Green



Anthracite Grey



Black



[cwgchoices](#)



[cwgchoices](#)



[cwgchoices](#)

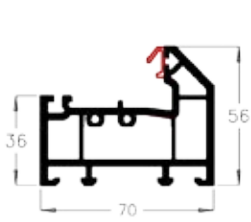
Pywell Road, Willowbrook East Ind. Est.
Corby, Northants NN17 5XJ

Pywell Road, Willowbrook East Ind. Est, Corby, Northants NN17 5XJ

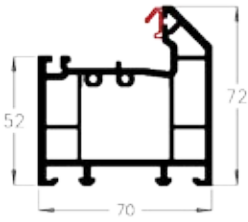
Tel: 01536 271940 • www.cwgchoices.com • Fax: 01536 264060

MAIN PROFILES

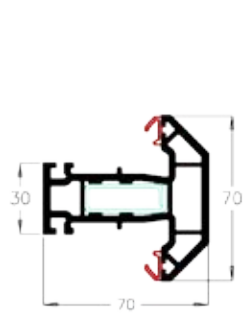
56mm Outerframe
P10501



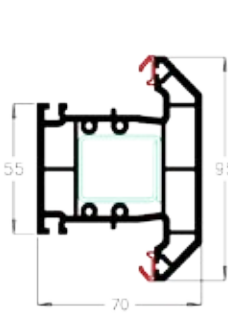
72mm Outerframe
P10502



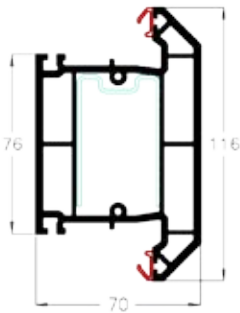
70mm Transom
P10503



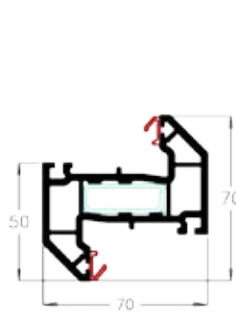
95mm T Transom
P10504



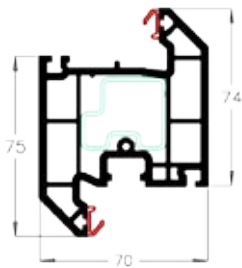
116mm Midrail
P10505



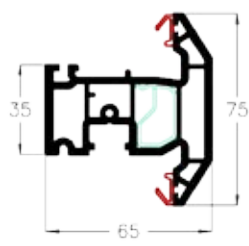
70mm Z Transom
P10506



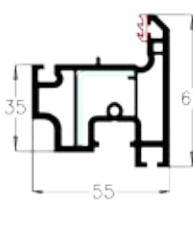
95mm Z Transom
P10515



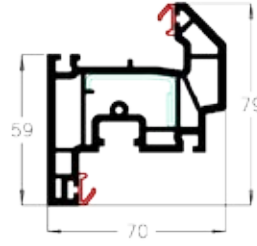
Internally beaded sash
P10508



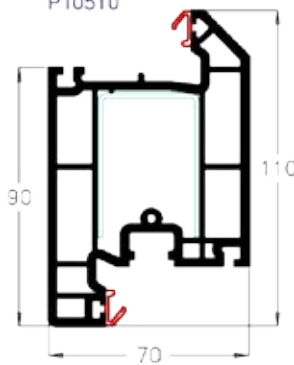
Flush sash
P10527



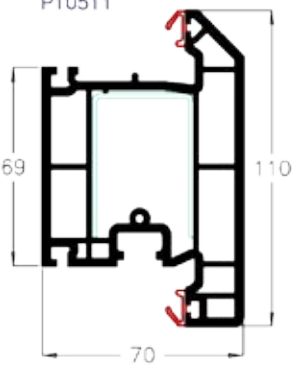
Tilt and Turn Sash
P10509



Door Sash – Open In
P10510



Door Sash – Open Out
P10511



32mm*
D.G Bead
P10427



28mm
D.G Bead
P10429



32mm*
D.G Bead
P10432



28mm
D.G Bead
P10431



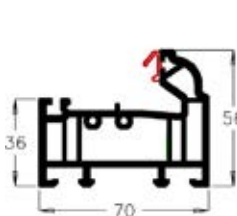
40mm
D.G Bead
P10437



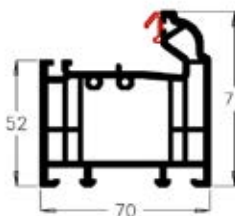
* 32mm beads used for 28mm glazing in Flush sash.

Sculptured profiles used for Flush 70

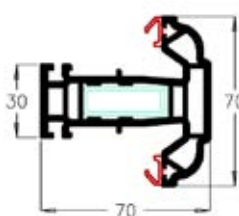
56mm Outerframe
P10531



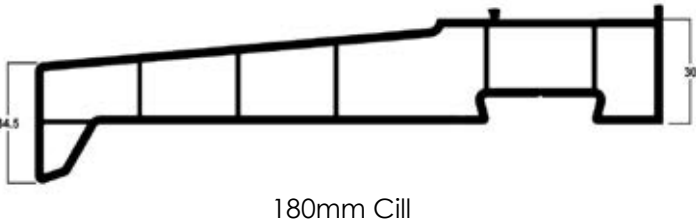
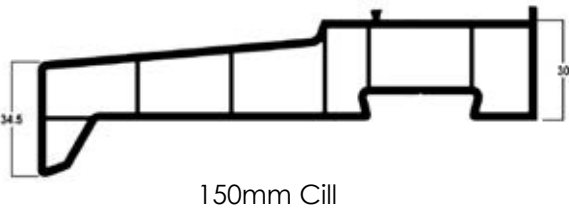
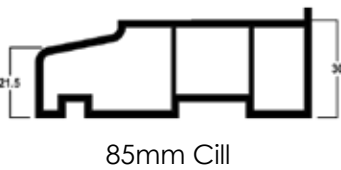
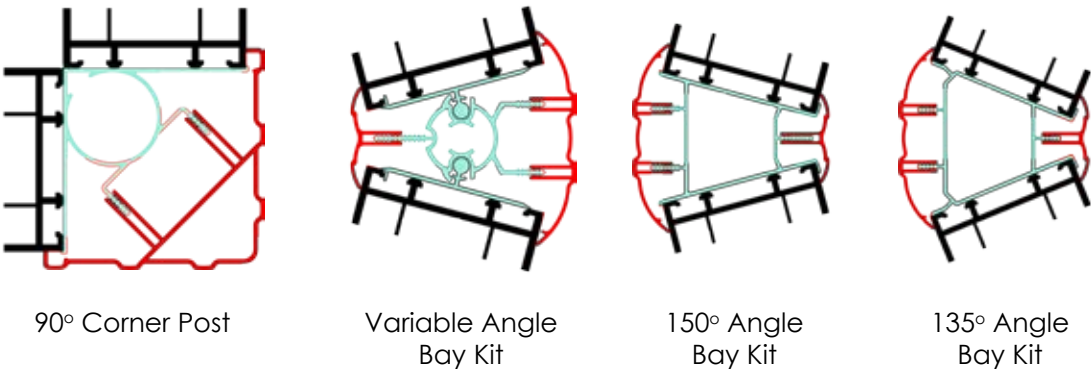
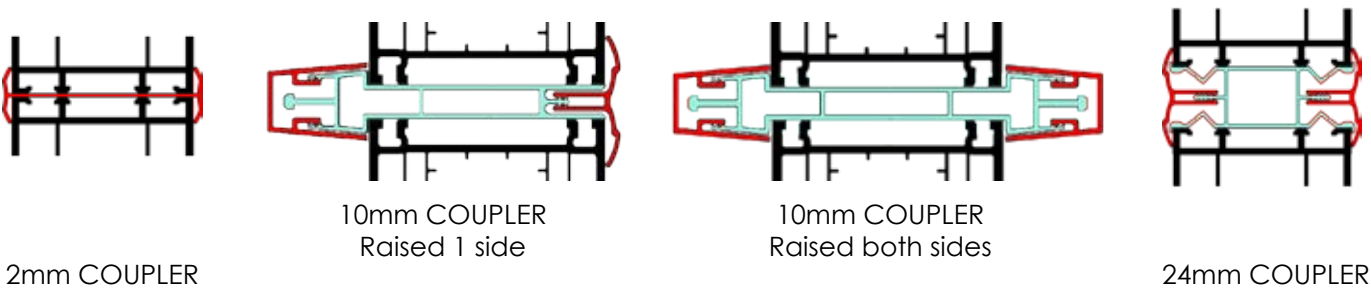
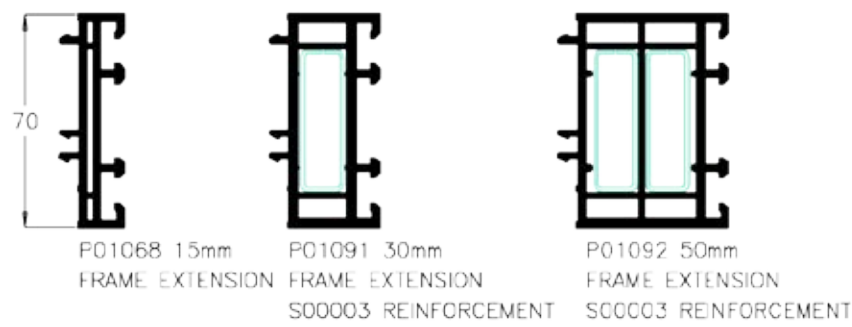
72mm Outerframe
P10532



70mm T Transom
P10533



SUNDRY PROFILES



The Radlington

165mm Traditional Cill

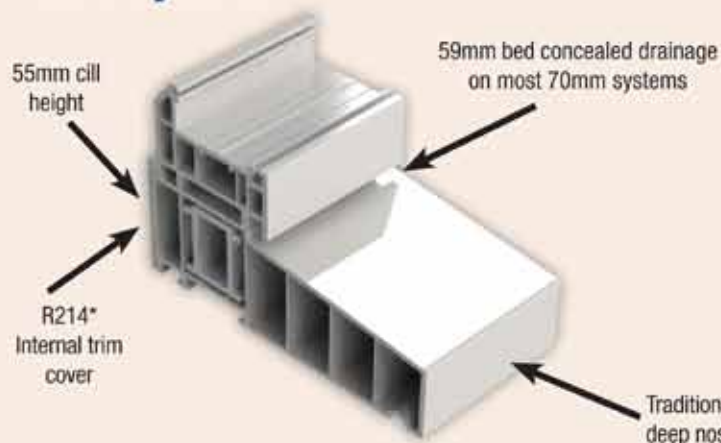
This new cill complements the 'Choices' 70mm and Residence 9 100mm window and door systems perfectly.

At 55mm deep the Radlington is a modern interpretation of a traditional timber cill, so if you are replacing traditional timber windows or doors, installations becomes easier and the end result more authentic.

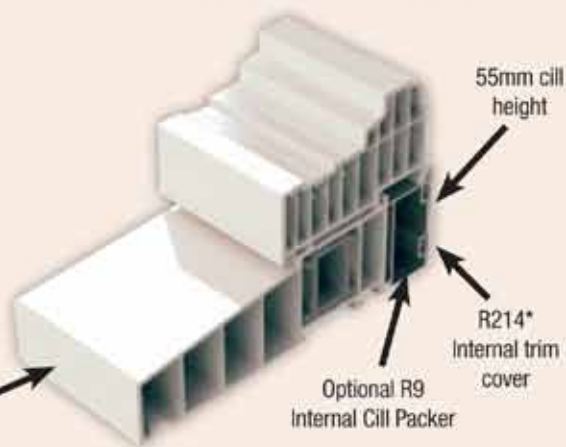


Available for use with our

70mm Systems



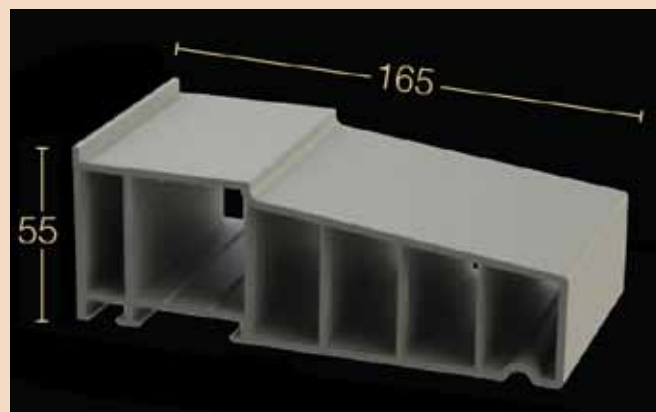
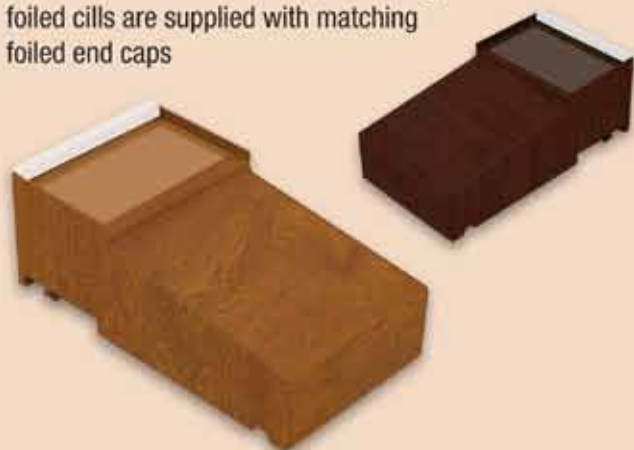
100mm Residence 9



* R214 Internal trim for use with 70mm systems when internal colour is different to external, or if using the R9 internal cill packer


Matching Foiled End Caps

To further the authentic look, all Radlington foiled cills are supplied with matching foiled end caps



PAS 24 - Licence No. KM 33520 - Tested by HALO

BS 3675-1:2009 Performance of windows and doors.

| Symbol | Code | Description | Reinforcement Code |
|---|--------------------|----------------------------------|---|
|  | 703810 (P10527) | 60mm Flush Sash Casement Sash | Steel 713226 (S00226) 713227 (S00227) |

Fabricated and installed in accordance with the latest issue(s) of the VEKA Group - Halo Flush Sash technical manual.
The windows are double glazed, internally beaded, multipoint locking, with welded transoms/mullions, tee joints and are classified WK or WKT (Flush Sash)

PAS24 Requirements

- Securistyle Stays
- Maco R.A.I.L. locking (Opposing mushroom cams)
- Key locking handle
- 1 Pair of run up blocks per sash
- 1 Pair of hinge protectors per sash
- Side hung Flush Sash maximum sizes - 620mm wide x 1270mm high



MACO R.A.I.L. KEEP



OPPOSING MUSHROOM CAMS



HINGE PROTECTOR

Please Note: There is no lockable night vent position with the standard locking option, a spring catch restrictor is available.

IMAGINE DOORS



Imagine Single door coupled with Flush 70 Window

A stunning range of traditional flush* fitting single, double and multifold doors. The traditional appearance provides the perfect accompaniment to the 'Choices' Alternative to Timber range.

Available as open in or open out in fully glazed or half glazed configurations.

*Flush outside when ordered open out.



Unique French Door with no floating mullion



Single Door with midrail and Astragal bars



115mm Midrail



Butt Hinge



Rebate Adapter



20mm Astragal Bar

'Imagine' Doors Fully Mechanically Jointed

Choices 'Imagine' door range available with mechanically jointed outer frame and sash option. Available on single, double and multi-folding doors.



Traditional Handles

3 handles styles available in both Black and Pewter

Pewter and Black Monkey Tail Handles