

STANDARD FLUSH CASEMENT - HATHAWAY™

L10. WINDOWS / ROOFLIGHTS / SCREENS / LOUVRES

110 EVIDENCE OF PERFORMANCE

Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements.

Third party certification to:

- BS EN ISO 9001: 2015
- BS EN ISO 14001: 2015
- Enhanced Security Certification PAS24:2016 - *(Where Requested) – Delete as appropriate*
- Secured by Design - *(Where Requested) – Delete as appropriate*
- The window manufacturer is to be a member of the Wood Window Alliance (WWA) & British Woodworking Federation (BWF) – Certificates provided on request.

115 TIMBER PROCUREMENT

Timber (including timber for wood based products):

- Obtained from well managed forests and/ or plantations in accordance with the laws governing forest management in the producer country or countries. International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES)

Documentation:

- All timber supplied must be sustainably & ethically sourced with full audit trail endorsed by the FSC or PEFC. The window manufacturer must hold and be able to evidence FSC or PEFC chain of custody certification

210 WOOD WINDOWS

MANUFACTURER: ARDEN WINDOWS LTD

- Arden House, Sparkbrook Street, Coventry, CV1 5ST.
- Tel: 02476 632423
- Email sales@ardenwindows.net
- Web: <http://www.ardenwindows.net>

PRODUCT REFERENCE: HATHAWAY FLUSH CASEMENT WINDOW

- Frame depth 92mm, Sash depth 60mm (Front to Back)
- Frame Width 35m External / 68mm Internal
- Sash Width 75mm External / 45mm (Visible Timber)
- Transom / Mullion Width 68mm – (86mm & 92mm Options available please ask for details)

Refer to drawings:

- HATHAWAY INTERNALLY BEADED HORIZONTAL CROSS SECTION DETAIL
- HATHAWAY INTERNALLY BEADED VERTICAL CROSS SECTION DETAIL

Configurations:

- Side Hung Open Out / Top Hung Open Out / Fixed Casements
- Shaped and Curved Frames / Multi-light Windows / Combination Frames
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GUARENTEE

- 10 Years on Windows / Hardware and Double Glazed Units
- 35 Years warranty against Fungal Rot and Insect Attack

GENERAL PERFORMANCE:

- Air Permeability - 600pa (Class 3) - BS EN 1026:2000
- Watertightness - 250pa (Class 6A) - BS EN 1027:2000
- Wind resistance - 2000pa (Class 5) - BS EN 12211:2000

210A WOOD WINDOWS

- Generally manufactured to BS644
- BS EN ISO9001:2015
- BS EN 14001:2015
- BS 6375-1 / BS6375-2
- PAS24:2016 - *(Optional) – Delete as appropriate*
- 100% of all Timber to be FSC Certified with full chain of custody
- Timber Generally to BS EN 942
- Moisture content of 12% +/- 3 %

- **Frames and Sashes:** to be manufactured using engineered softwood or Hardwood with a minimum of three laminations and finger jointed. *Delete as appropriate*

- **Cills** to be manufactured using Engineered Softwood or Eucalyptus Hardwood – *Delete as appropriate*. Various cill sizes are available. The cill projection to be determined by construction method and set back position of each window and detailed in the architect's section / detail drawings.
- **Beading:** Generally internally beaded using high quality composite Q-Wood beads, glued and pinned with hidden fixing pins. Glazing to be sealed against water ingress using low modulus silicone sealant to the internal and external perimeter of all glazed units.
- **Glazing Bars:** If required and as detailed in the Window Schedule or Window Elevation Drawings glazing bars will be incorporated internally and externally and manufactured as:

53mm solid European softwood glazing bar with individual glass units - *Delete as appropriate*

20mm Composite Q-Wood plant on bars with bonded bar to glazing air space - *Delete as appropriate*

- Standard Beading & Glazing Bar Profiles to be Lambs Tongue Internally / Putty Line Externally
- Appearance Class: J10 drip mouldings and the like. J40 or better for all other members.

FINISH

- Windows are to be supplied Fully Factory Finished. Suitably prepared, sealed and finished using a three coat wood coating system, incorporating preservative, mid-coat and top-coat. Arden Windows Ltd offer a comprehensive range of Standard RAL Colours & Stains including Dual Colour Options.

GLAZING

- Windows generally supplied *Factory Glazed* with 28mm Double Glazed Units comprising:

Standard Glazing 4mm Float / 20mm Warm Edge Argon Filled Cavity / 4mm Low E

Centre Pane U-Value	= 1.10 W/m ² K
G Value	= 0.70 (70%)
Lt Value	= 0.55 (55%)
Acoustic Attenuation	= 32dB (RW) / 28dB (RW+CTR)

- Safety Glazing to be included to all glazing falling below 800mm from the FFL or within 300mm of a door set as required under part N of the Building Regulations and in accordance with BS 6262. Safety glazing will have a visible identifying kite-mark etched into the unit.

- Privacy windows i.e. Bathroom & WC to incorporate obscure glazing, pattern to be selected from Standard Range. Typically Flemish / Minster / Autumn / Stippolyte / Cotswold

- **Further Glazing Options are available on request:**
Triple Glazing / Acoustic Glazing / Self-Cleaning / Solar Control / Laminated / Toughened / Obscure / Acid Etched / Sandblasted / Switchable Glass / Enamelled etc.

THERMAL PERFORMANCE

- Standard window assemblies incorporating standard 28mm DG Units (*4mm Float / 20mm Warm Edge Argon Filled Cavity / 4mm Low E*) comply as a whole with part L2 of the Current Building Regulations with a minimum whole frame u-value of less than 1.5 w/m²k.
- Lower U-Values are possible using different glazing configurations.

BACKGROUND VENTILLATION

- Trickle ventilators to be Trimvent[®] Select Xtra R16 4600EA.
- Where required to be fitted the Trickle Vent must vent into the free zone between the sash and frame with no external canopy. The Trickle Vent is to be recessed into the internal face at the head of the window frame.

R16 Specification:

- Equivalent Area – 4600mm² Per Vent
- Water Resistance (Pa) Vent & Grille 300pa
- Acoustic Dn,e,w (+/-) – vent open 31 (0; 1) vent closed 40 (-1;-1)
- BS EN 13141-1:200 (airflow, air leakage and weather tightness)
- Acoustic performance tested in accordance with BS EN ISO20140-10:1992, BS EN ISO140-10:1991 and single figures to BS EN ISO717-1:1991

IRONMONGREY

Manufacturer's standard

- Reverse cam espagnolette locking system & keeps with Night Vent Facility
- Hoppe DuraPlus[®] Tokyo Cranked locking handles – Standard colour choice available
- Austenitic stainless steel friction hinges
- Stainless steel screws
- Shootbolts & Hinge Protectors to PAS24:2016 - *(As Required) – Delete as appropriate*

ACCESSORIES

- Optional means of escape egress hinges
- Easy Clean Hinges
- Child Proof Restrictor Hinges or Face Fitted Restrictors as requested and appropriate
- Traditional & Contemporary Hinge and Handle Options
- Optional mechanical or electronic remote opening systems

MAXIMUM & MINIMUM SIZES

Standard Hinge	Width (mm)		Height (mm)		Sash Weight (KG)
	Min	Max	Min	Max	
Direct Glazed	350	2400	325	2400	N/A
Fixed Sash	450	2400	400	2400	N/A
Side Hung	450	700	400	1500	24
Top Hung	450	1500	400	1800	35
Heavy Duty Hinge					
Side Hung	450	850	325	1500	47
Top Hung	450	1695	400	1800	73

EXECUTION

710 PROTECTION OF COMPONENTS

- General: Do not deliver to site components that cannot be installed immediately or placed in clean, dry floored and covered storage.
- Stored components: Stack vertical or near vertical on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads etc.

730 PRIMING /SEALING

- Windows are to be suitably prepared, sealed, and fully factory finished using Remmers three coat wood coating system, incorporating Preservative, Mid coat and Top coat. The finishing process must be completed on the same site as the manufacture of the windows. Visible knots and knotting compound “bleed” through paint finishes will not be acceptable
- The system is a high build moisture vapour permeable coating with a minimum dry film loading of 120 µm.
 - i) Preservative Impregnation Primer - Induline GW-306 (tinted to RAL 7035) for protection against soft rot and blue stain.
 - ii) Spray Applied Mid Coat - Induline GW - ZW /425
 - iii) Spray Applied Top Coat - Induline DW-691/35
- The System includes Induline SW-910 end grain sealer and Induline AF-920 V Joint sealer applied where applicable after the primer layer.

750 BUILDING IN

- General: Not permitted unless indicated on drawings.
- Brace and protect components to prevent distortion and damage during construction of adjacent structure.

765 WINDOW INSTALLATION GENERALLY

- Installation: Into prepared openings.
Gap between frame and edge of surrounding construction:
Minimum – 10mm
Maximum – 14mm
- Distortion: Install windows without twist or diagonal racking.
- Ensure correct setback position from front face of window to external of façade is achieved

780 FIXING OF WOOD FRAMES

- Fasteners: manufactures galvanized mild steel cramps or as otherwise recommended by Arden Windows.
- Spacing: When not predrilled or specified otherwise, position fasteners not more than 150mm from ends of jamb, adjacent, to each hanging point of opening lights, and maximum 600mm centres.
- It is recommended that the installation is carried out by the window manufacturer, or an approved specialist installer of Timber Windows and Doors.