

LIGNUM

superior timber
windows & doors

Flush Casement Window

Lignum timber flush sash casement windows offer a classic design that suits any property style. A popular choice for replacing traditional windows, the flush sash frame can also be paired with contemporary glazing bars and hardware for house remodeling projects or new builds.

Externally, the outerframe and sash are flush and feature slim sightlines to provide a larger glass area. The window system is internally beaded

to enhance security, certified to PAS 24:2022 and part of a registered Secured by Design scheme.

The Lignum Flush Casement Window is A rated for energy efficiency and has a U-Value of 1.3 W/m²K with a warm edge Low-E argon filled double-glazed unit. U-Values of 1.0 W/m²K or below can be achieved with triple-glazing.



PAS 24:2022 (2024)
Security



0.9-1.3 W/m²K
U-Value



Document L
Compliant



Document M
Compliant



Document Q
Compliant



BS6375-1,
2 & 3



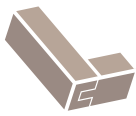
Double, Triple or
Vacuum Glazing

Specification

Outer Frame Options	Head & Jambs: 57mm x 93mm Head & Jambs: 68mm x 93mm (For trickle vent) Head & Jambs: 90mm x 93mm Cill: 68mm/90mm x 93mm (Standard) Transom & Mullion: 68mm x 93mm
Sash	Top Rail & Stiles: 64mm x 57mm (PAS24:2022) Top Rail Option: 57mm x 57mm (Refurb only) Bottom Rail: 67mm x 57mm (PAS24:2022) Bottom Rail Option: 60mm x 57mm (Refurb only)
Sash Profile	Ovolo or Lambs Tongue
Cill Extension Options	Flush, 35mm, 60mm, 85mm, longer on request
Glazing	24mm Low E sealed unit (4mm/16mm/4mm) warm edge spacer, obscure, sound control, toughened & laminated options available Argon filled cavity. Outer perimeter has standard warm edge spacer, colour black, optional white Security bead glazing system Additional glazing units 12mm & 14mm options - not PAS 24 tested Curved glass and units with less than 14mm cavity will have aluminium spacer in place of warm edge spacer
Trickle Vent	Concealed trickle vents through head 4600EA

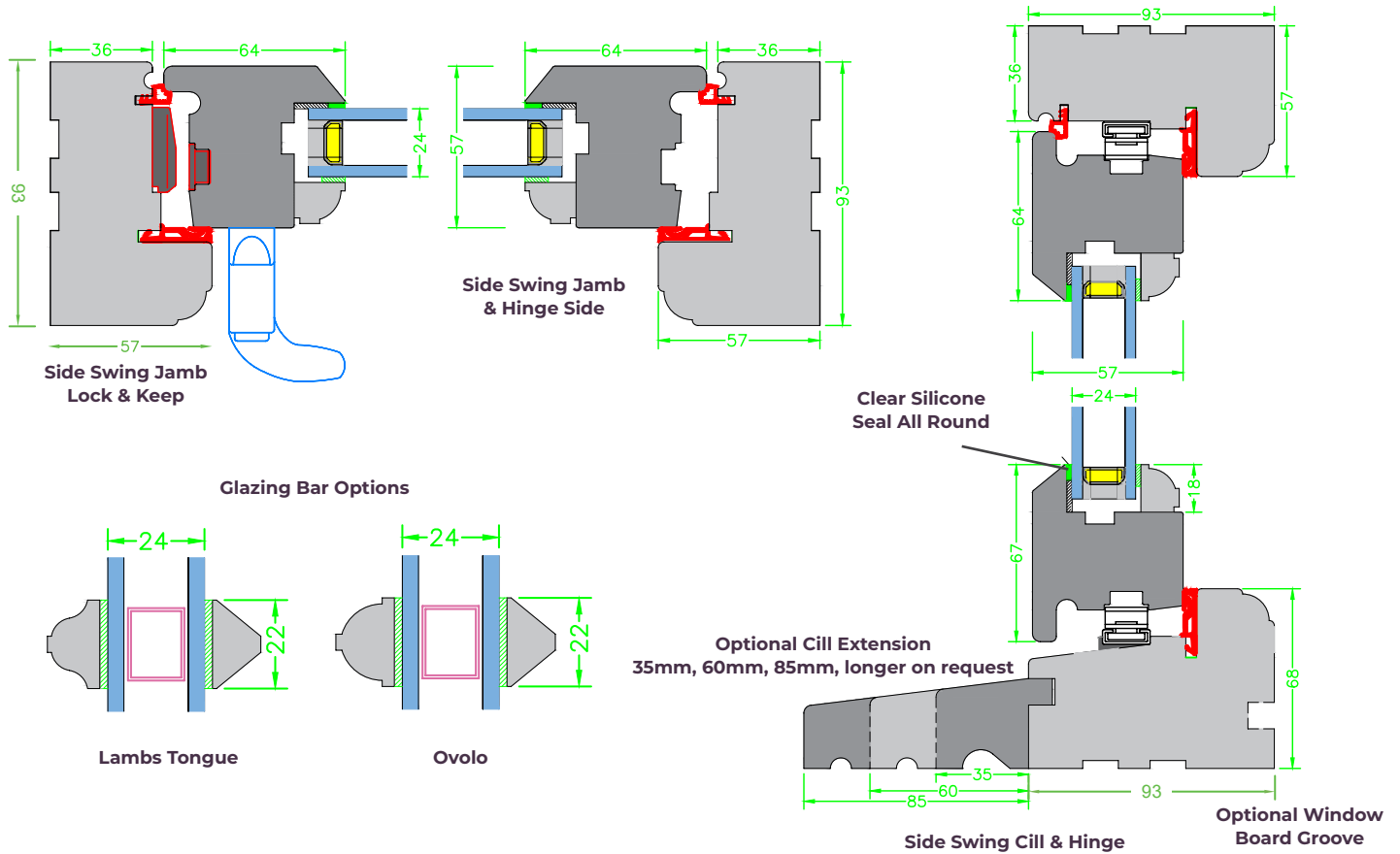
Hardware/Fittings

Hardware	Friction hinges for side and top swing sashes. Multipoint locking system.
Handles	Polished Chrome, Satin Chrome, Antique Brass, Oil Rubbed Bronze, Brass Finish
Trickle Vent	Can be fitted through head (Head Drip)
Test Data	
BS6375 Part 1	Air Permeability Class 4, Watertightness Class 9A Resistance To Wind Load Class C5
BS6375 Part 2	Operational strength testing - 30,000 cycles windows - Passed
BS6375 Part 3	3 Additional performance characteristics - Passed
Acoustic Rating	RW(C,Ctr) = 36 (-2,6) db (With Sound Control Glass)
Thermal Rating	1.3 W/m ² K (with double glazing) 0.9 W/m ² K (with triple or vacuum glazing) WER A or A+
Security	PAS 24:2022 (2024) Secured by Design System



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Flush Casement Window



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Design Features

- Secured by Design System
- Tested to PAS 24:2022 (2024)
- Internally Beaded for easy installation
- Deventer superior weatherseals
- Fully suited window & door system

Design Options

- Lambs Tongue or Ovolo glazing bars
- Friction-stay or traditional hinges (subject to Document Q requirements)
- Double or triple glazed
- Heritage slim-glass unit bead option
- Slim outerframe and sash options



The Joinery Network
is authorised as a
system house by
Secured by Design

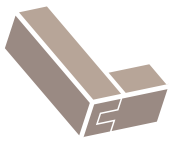


Backing Timber Window & Door Manufacturers

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Conservation Casement Window Butt Hinge, Side Hung

Lignum timber flush sash casement windows with traditional side hung Butt hinges offer a period design that suits any property style. A popular choice for refurbishing traditional windows, the flush sash frame can also be paired with traditional glazing bars profiles such as Ovolo and Lambs Tongue. The Butt hinges can be paired with ornamental peg stays for house remodelling projects.

Externally, the outer frame and sash

are flush and feature slim sightlines to provide a larger glass area. The window system is internally beaded to enhance security, certified to PAS 24:2022 and is weather tested to meet the extreme conditions of the British Isles. The Lignum Flush Casement Window is A rated for energy efficiency and has a U-Value of 1.3 W/m²K with a warm edge Low-E argon filled double-glazed unit. U-Values of 1.0 W/m²K or below can be achieved with triple-glazing or vacuum glazing.



PAS 24:2022
Security



0.9-1.3 W/m²K
U-Value



Document L
Compliant



Document M
Compliant



Document Q
Compliant



BS6375-1,
2 & 3



Double, Triple or
Vacuum Glazing

Specification

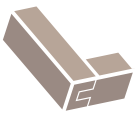
Outer Frame Options	Head & Jambes: 57mm x 93mm Head & Jambes: 68mm x 93mm (For trickle vent) Head & Jambes: 90mm x 93mm Cill: 68mm/90mm x 93mm (Standard) Transom & Mullion: 68mm x 93mm
Sash	Top Rail & Stiles: 64mm x 57mm (PAS24:2022) Top Rail Option: 57mm x 57mm (Refurb only) Bottom Rail: 67mm x 57mm (PAS24:2022) Bottom Rail Option: 60mm x 57mm (Refurb only)
Sash Profile	Ovolo or Lambs Tongue
Cill Extension Options	Flush, 35mm, 60mm, 85mm, longer on request
Glazing	24mm Low E sealed unit (4mm/16mm/4mm) warm edge spacer, obscure, sound control, toughened & laminated options available Argon filled cavity. Outer perimeter has standard warm edge spacer, colour black, optional white Security bead glazing system Additional glazing units 12mm & 14mm options - not PAS 24 tested Curved glass and units with less than 14mm cavity will have aluminium spacer in place of warm edge spacer
Trickle Vent	Concealed trickle vents through head 4600EA

Hardware/Fittings

Hardware	Traditional Butt hinges for side and top opening
Handles	Polished Chrome, Satin Chrome, Antique Brass, Oil Rubbed Bronze, Brass Finish
Trickle Vent	Can be fitted through head (Head Drip) The weather testing will be completed in January 2026

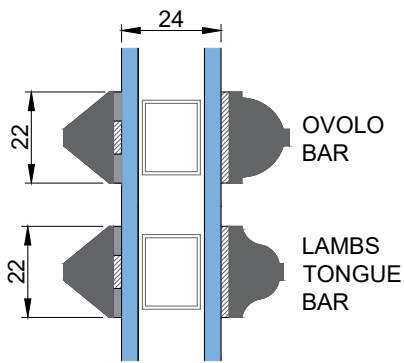
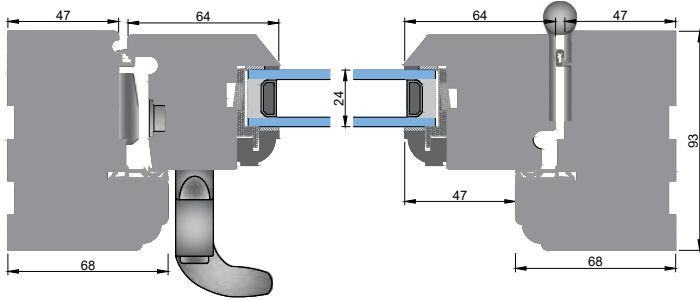
Test Data

BS6375 Part 1	Air Permeability Class 4 Watertightness Class 4 Resistance To Wind Load Class C5
BS6375 Part 2	Operational strength testing - 30,000 cycles windows - Passed
BS6375 Part 3	3 Additional performance characteristics - Passed
Acoustic Rating	RW(C;Ctr) = 36 (-2,6) db (With Sound Control Glass)
Thermal Rating	1.3 W/m ² K (with double glazing) 0.9 W/m ² K (with triple or vacuum glazing) WER A or A+
Security	PAS 24:2022 Security

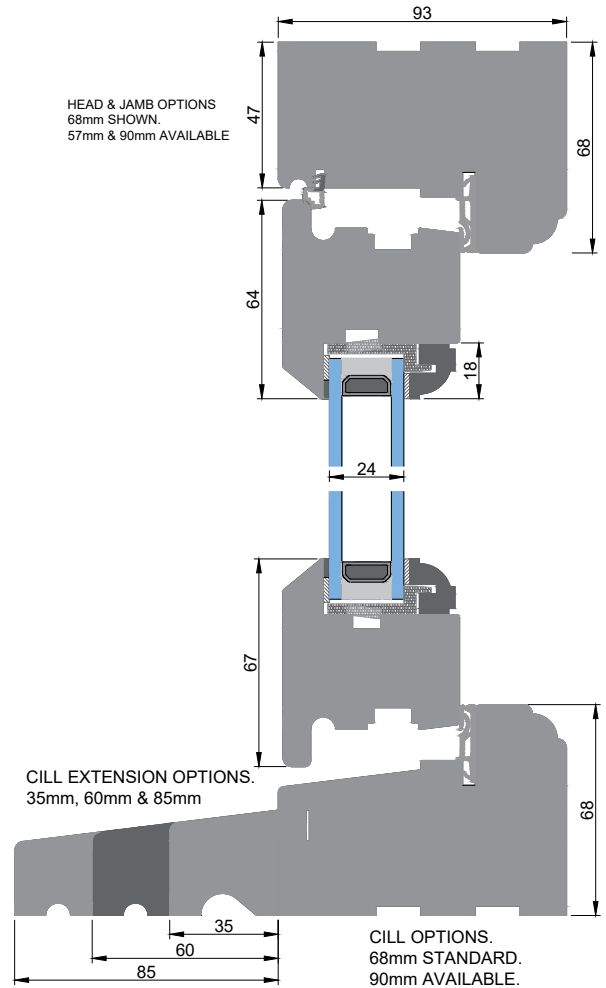


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Casement Window Butt Hinge, Side Hung



HEAD & JAMB OPTIONS
68mm SHOWN.
57mm & 90mm AVAILABLE



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Design Features

- Secured by Design System
- Tested to PAS 24:2022
- Internally Beaded for easy installation
- Deventer superior weatherseals
- Fully suited window & door system

Design Options

- Lambs Tongue or Ovolo glazing bars
- Friction-stay or traditional hinges (subject to Document Q requirements)
- Double or triple glazed
- Heritage slim-glass unit bead option
- Slim outerframe and sash options



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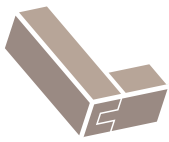


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Box Sash Window

Traditional box sash sliding windows are the enduring design of grand Georgian houses, Victorian villas and elegant Edwardian homes.

Lignum Box Sash Windows offer an authentic conservation replacement to retain the traditional features of a period property renovation.

This vertical sliding sash window provides excellent energy efficiency and security performance, making it an ideal choice for both refurbishment and new build projects.

The system is part of a registered Secured by Design scheme.



PAS 24:2016
Security



1.3W/m²K U-Value
Double Glazed



Document L
Compliant



Document M
Compliant



Document Q
Compliant



BS6375-1 Tested to
2015+AI:2016



Double, Triple or
Vacuum Glazing

Specification

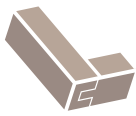
Outer Frame Options	Head & Jambs: 102mm x 164mm Cill: 69mm x 164mm Mullion: 98mm or 141mm
Sash	Top Rail & Stiles: 56mm x 57mm Bottom Rail: 90mm x 57mm Mid Rail: 43mm x 57mm
Sash Profile	Ovolo or Lambs Tongue
Cill Extension Options	Flush, 35mm, 60mm, 85mm or 110mm
Glazing	24mm Low E sealed unit (4mm/16mm/4mm) Obscure, sound control, toughened and laminated options available Argon filled cavity, Outer perimeter has standard warm edge spacer (black) optional white Security bead glazing system Additional glazing units include 12mm and 14mm options - not PAS 24 tested Curved glass and units with less than 14mm cavity will have aluminium spacer in place of warm edge spacer
Trickle Vent	Concealed trickle vent through head 4600EA

Hardware/Fittings

Hardware	Sash catch, sash lifts, sash restrictors and barrel security lock 2 sash catches fitted if frame are PAS 24 security
Handles	Polished Chrome, Satin Chrome, Antique Brass, Oil Rubbed Bronze or Brass Finish
Trickle Vent	Can be fitted through head (Concealed)

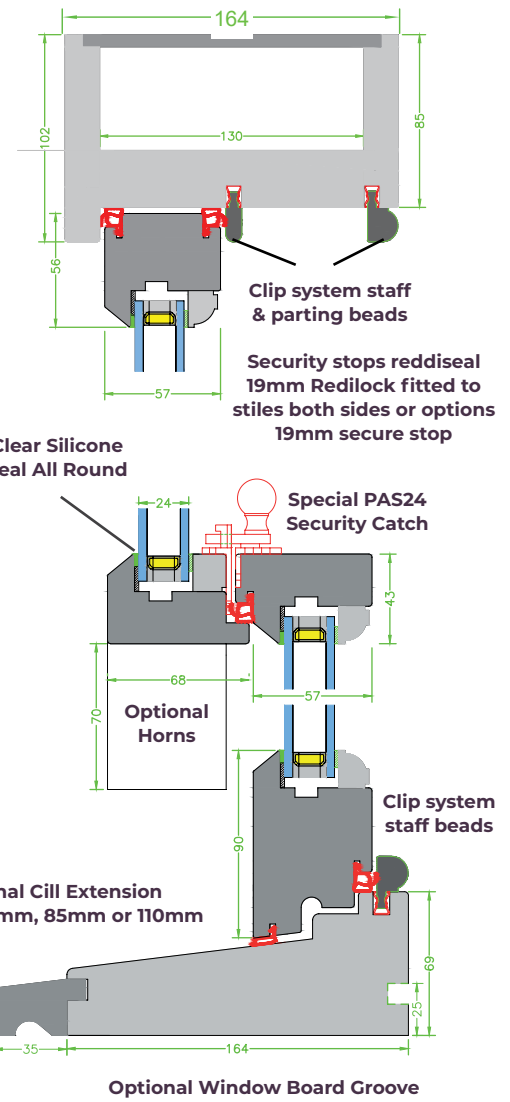
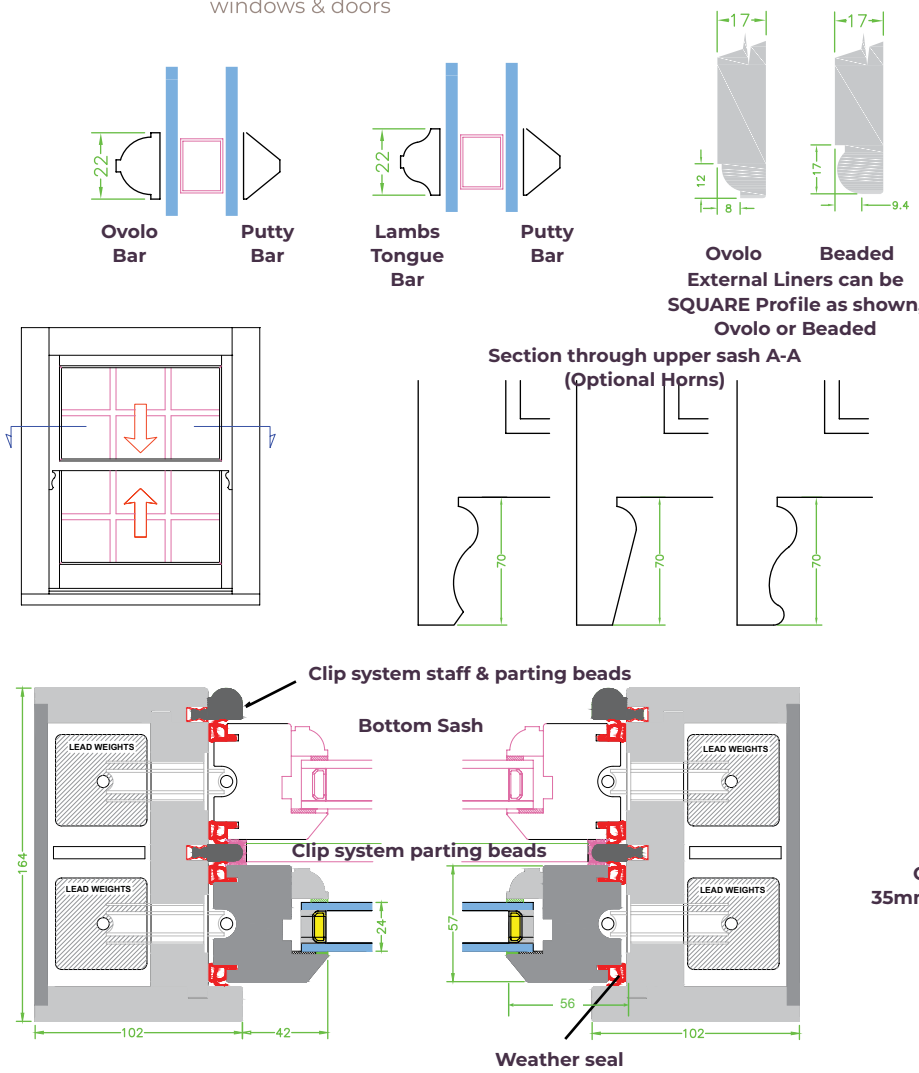
Test Data

BS6375 Part 1	Air Permeability Class 4, Watertightness Class 8A to 450PA Resistance To Wind Load Class C5
BS6375 Part 2	Operational strength testing - 30,000 cycles windows - Passed
BS6375 Part 3	3 Additional performance characteristics - Passed
Acoustic Rating	RW(C;Ctr) = 36 (-2,6) db (With Sound Control Glass)
Thermal Rating	U-Value 1.3W/m ² K
Security	PAS 24:2022 Secured by Design System



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Box Sash Window



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Design Features

- Secured by Design System
- Tested to PAS 24:2022
- Choice of Square, Ovolo or Beaded External Liners
- Deventer superior weatherseals
- Special PAS 24 Security Catch
- Fully suited window & door system

Design Options

- Lambs Tongue or Ovolo sash and glazing bars
- Choice of sash horn styles
- Heritage slim-glass unit bead option
- Slim outerframe and sash options



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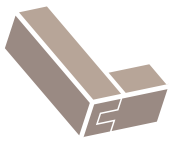


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Spring Balance Window

Lignum timber spring balance sliding sash windows are the modern alternative to the traditional box sash, making them ideal for new as well as traditional properties.

The Lignum Spring Sliding Sash Window uses a spring-loaded mechanism instead of weighted cords and pulleys, so it is suitable for a smaller or flush reveal detail.

The window provides excellent energy efficiency and security performance. The spring balance sash offers a more economical solution, making it an ideal choice for both refurbishment and new build projects.

The system is part of a registered Secured by Design scheme.



**PAS 24:2016
Security**



**1.3W/m²K U-Value
Double Glazed**



**Document L
Compliant**



**Document M
Compliant**



**Document Q
Compliant**



**BS6375-1 Tested to
2015+A1:2016**



**Double, Triple or
Vacuum Glazing**

Specification

Outer Frame Options	Head & Jambs: 61mm x 164mm Cill: 69mm x 164mm Mullion: 78mm or 122mm
Sash	Top Rail & Stiles: 56mm x 57mm Bottom Rail: 90mm x 57mm Mid Rail: 43mm x 57mm
Sash Profile	Ovolo or Lambs Tongue Optional Horn Detail on Sash
Cill Extension Options	Flush, 35mm, 60mm, 85mm or 110mm
Glazing	24mm Low E sealed unit (4mm/16mm/4mm) Obscure, sound control, toughened and laminated options available Argon filled cavity Outer perimeter has standard warm edge spacer (black) optional white Security bead glazing system Additional glazing units include 12mm and 14mm options - not PAS 24 tested Curved glass and units with less than 14mm cavity will have aluminium spacer in place of warm edge spacer
Trickle Vent	Concealed trickle vent through head 4600EA

Hardware/Fittings

Hardware	Sash catch, sash lifts, sash restrictors and barrel security lock 2 sash catches fitted if PAS 24
Handles	Polished Chrome, Satin Chrome, Antique Brass, Oil Rubbed Bronze or Brass Finish
Trickle Vent	Can be fitted through frame head (Head Drip)

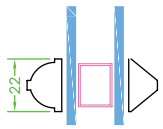
Test Data

BS6375 Part 1	Air Permeability Class 3, Watertightness Class 8A to 450PA Resistance To Wind Load Class C5
Acoustic Rating	RW(C,Ctr) = 36 (-2,6) db (With Sound Control Glass)
Thermal Rating	U-Value 1.3W/m ² K
Security	PAS 24:2016 Secured by Design System

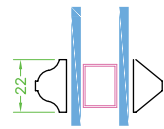


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Spring Balance Window



Ovolo Bar Putty Bar



Lambs Tongue Bar Putty Bar

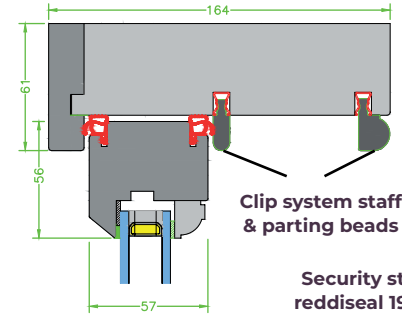


Ovolo



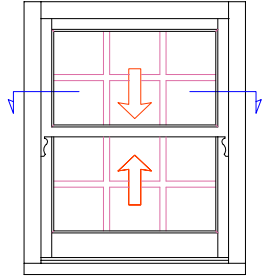
Beaded

External Liners can be SQUARE Profile as shown, Ovolo or Beaded

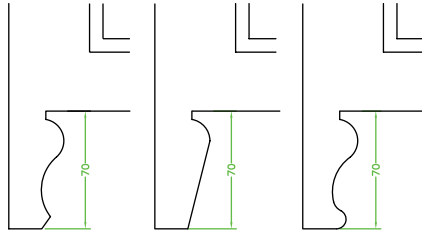


Clip system staff & parting beads

Security stops
reddiseal 19mm
Redilock fitted to
stiles both sides
or options 19mm
secure stop

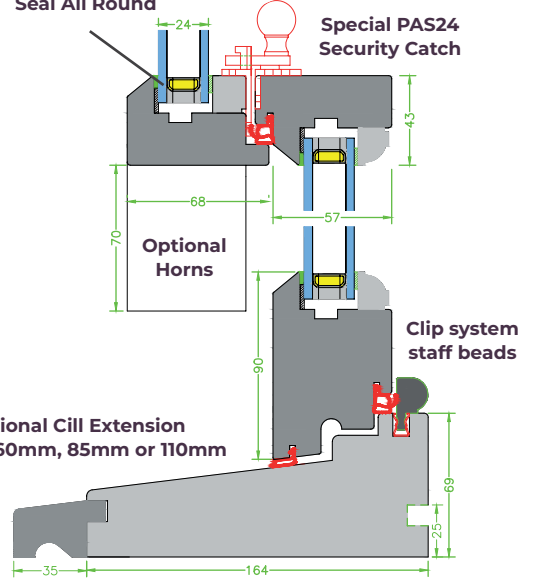


Section through upper sash A-A
(Optional Horns)



Clear Silicone
Seal All Round

Special PAS24
Security Catch

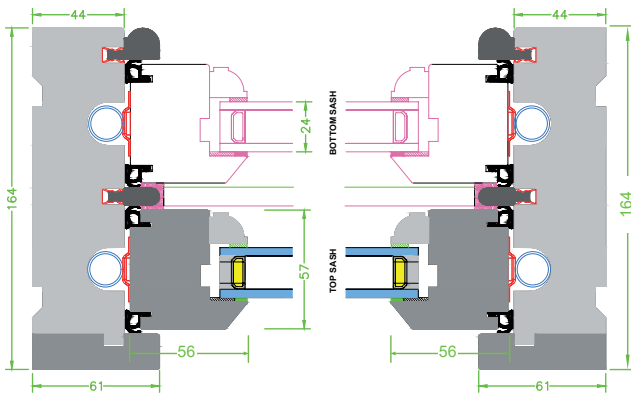


Optional Horns

Clip system
staff beads

Optional Cill Extension
35mm, 60mm, 85mm or 110mm

Optional Window Board Groove



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Design Features

- Secured by Design System
- Tested to PAS 24:2016
- Choice of Square, Ovolo or Beaded External Liners
- Deventer superior weatherseals
- Clip system Staff and Parting Beads
- Special PAS 24 Security Catch
- Fully suited window & door system

Design Options

- Lambs Tongue or Ovolo sash and glazing bars
- Choice of sash horn styles
- Heritage slim-glass unit bead option
- Slim outerframe and sash options

Secured by Design



Police Preferred Specification

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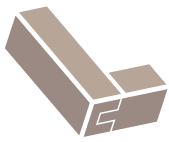


Backing Timber Window & Door Manufacturers

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LIGNUM

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Tilt & Turn Windows

Lignum timber Tilt & Turn windows offer a Contemporary design that suits any property style. A popular choice if you want a high-performance window that opens in for easy cleaning. The Tilt and turn window come in double and triple glazed option. The contemporary whole glass glazing gives clean modern lines. They are suitable for refurbishment and new Build properties, for house remodelling projects or new builds often used in commercial projects.

Externally, the outer frame is rebated over the sash to create a tight seal for the best weather performance. These windows can be larger than most other traditional casements because



of the locking on all four sides. The window system is internally beaded to enhance security, certified to PAS 24:2016 and part of a registered Secured by Design scheme.

The timber Tilt & Turn windows have a U-Value of 1.3 W/ m²K with a warm edge Low-E argon filled double-glazed unit. U-Values of 1.0 W/m²K or can be achieved 0.8 W/ m²K with triple-glazing.



PAS 24:2022
Security



1.3W/m²K U-Value
Double Glazed



Document L
Compliant



Document M
Compliant



Document Q
Compliant



BS6375-1 Tested
to S 2015+A1:2016



Accoya Passed PAS
24:2022 Class D



Double, Triple or
Vacuum Glazing

Specification

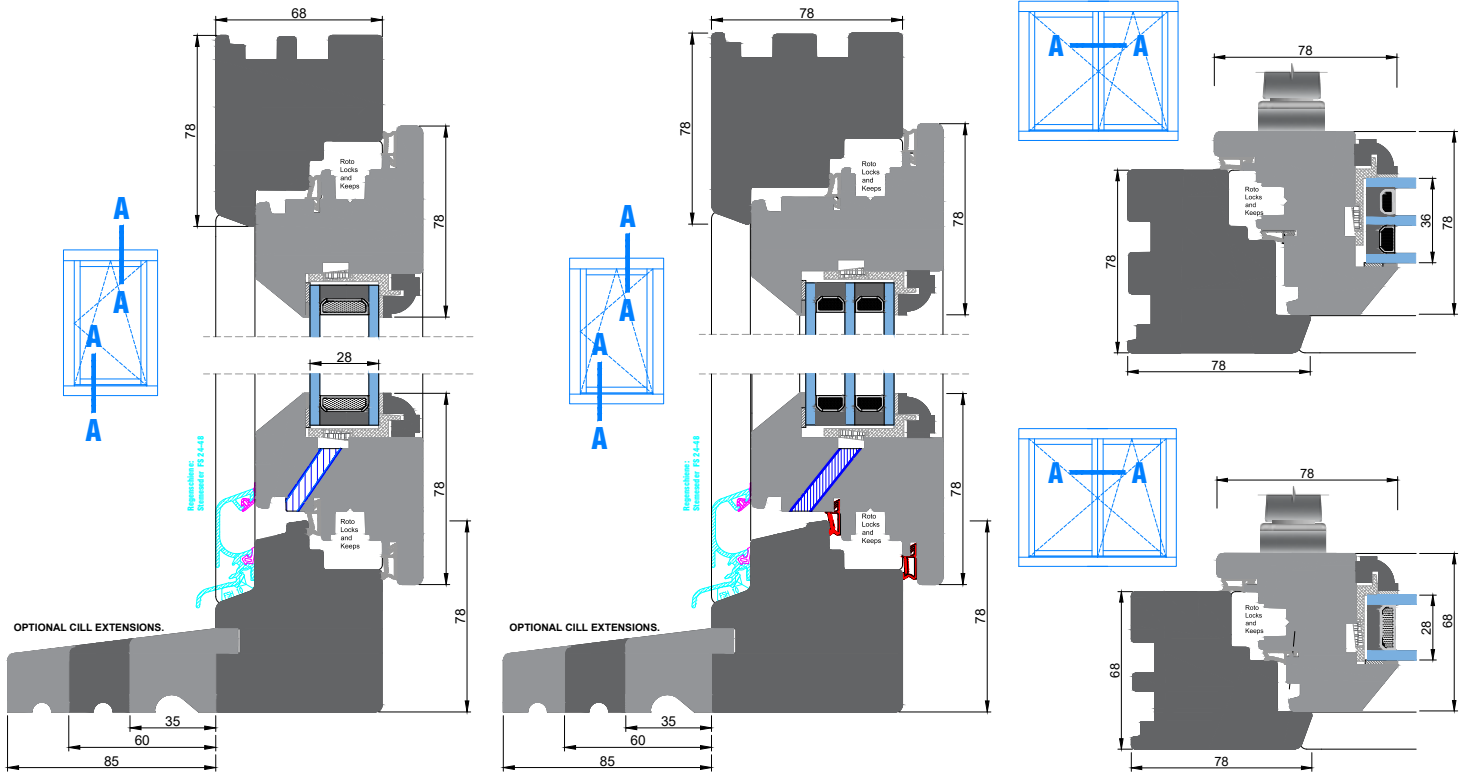
Outer Frame Options	Head & Jambs: 57/78mm x 78mm Head & Jambs: 68/78mm x 78mm Head & Jambs: 90/78mm x 78mm Cill: 68/78mm x 78mm (Flush) Transom 68/78mm x 78mm Mullion: 68/78mm x 92mm
Sash	Rails & Stiles: 68/78mm x 78mm (PAS24:2016)
Sash Profile	Ovolo or Lambs Tongue
Cill Extension Options	Flush, 35mm, 60mm, 85mm, longer on request
Glazing	28mm Low E sealed unit (4mm/20mm/4mm) warm edge spacer, obscure, sound control, toughened & laminated options available 36mm Low E sealed unit triple (4mm/12mm/4mm/12mm/4mm) warm edge spacer, obscure, sound control, toughened & laminated options available Argon filled cavity. Outer perimeter has standard warm edge spacer, colour black, optional white Security bead glazing system
Trickle Vent	Concealed trickle vents through head 4600EA

Hardware/Fittings

Hardware	Tilt & Turn options open in. Multipoint locking.
Handles	Polished Chrome, Satin Chrome, Brass Finish, White and Black.
Trickle Vent	Can be fitted through head (Head Drip)

Test Data

BS6375 Part 1	Air Permeability Class 4, Watertightness Class 9A @ 600pa Resistance To Wind Load Class C5 @ 2000pa
BS6375 Part 2	Operational strength testing - 30,000 cycles windows - Passed
BS6375 Part 3	3 Additional performance characteristics - Passed
Acoustic Rating	RW(C;Ctr) = 36 (-2,6) db (With Sound Control Glass)
Thermal Rating	1.3 W/m ² K (with double glazing) 0.8W/m ² K (with Triple Glazing)
Security	PAS 24:2016 Secured by Design System



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Design Features

- Secured by Design System
- Tested to PAS 24:2022
- Winkhaus Thunderbolt Multipoint Locking
- Internally Beaded for easy installation
- Deventer superior double weatherseals
- Hi load butt hinges
- Thermally enhanced door panels
- Fully suited window & door system

Design Options

- Lambs Tongue or Ovolo sash profile
- 57mm or 68mm wide outerframe
- Slim outerframe and sash options
- Heritage slim-glass unit bead option



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