

SELECTAGLAZETM



By Appointment to
Her Majesty The Queen
Manufacturer and Supplier
of Secondary Glazing
Selectaglaze Ltd.
St. Albans

CI/SfB	(31.4)	Hh4
Uniclass L413	EPIC D172	

January 2011

SELECTAGLAZE
secondary glazing

product guide

Product Index

FUNCTION	SERIES	DESCRIPTION	TYPE	RECOMMENDED MAXIMUM DIMENSION (mm) (note 1)		GLAZING RANGE (note 2)
				WIDTH	HEIGHT	
Horizontal Sliding 	10	Slimline	2 pane	2200	2200	4mm to 6.8mm
			3 pane	3300	2200	
			4 pane	4400	2200	
	80	Heavy Duty	2 pane	3000	2600	6mm to 12mm
			3 pane	4200	2600	
			4 pane	5600	2600	
	85	Security	2 pane	2600	2600	9.5mm to 12mm
Vertical Sliding 	20	Slimline		1500	3000	4mm to 6.8mm
	60	Tilt In		1500	3000	4mm to 6.8mm
	90	Heavy Duty		1600	3600	6mm to 12mm
	95	Security		1600	3600	9.5mm to 12mm
Hinged Casement 	47	Heritage	Single	1000	2000	4mm
	45	Slimline	Single	1300	2200	4mm to 6.8mm
			Double	2400	2200	
			Stable Door	1200	2400	
41	Heavy Duty	Single	1500	2700	6mm to 12mm 24mm su*	
		Double	3000	2700		
		Stable Door	1400	3000		
50	Security	Single	1500	3200	6mm to 12mm 24mm su*	
Lift Out 	30	Slimline	Lift Out Side Shuffle	1000 1000	1700 2200	4mm to 6.8mm
	45	Slimline		1000	2200	4mm to 6.8mm
	41	Heavy Duty		1200	2400	6mm to 12mm 24mm su*
Fixed 	45	Slimline Flush		1000	2000	4mm to 6.8mm
	46	Slimline		1000	2000	4mm to 6.8mm
	42	Heavy Duty/Security		1200	2200	6mm to 12mm
	40	Heavy Duty		1200	2400	6mm to 12mm 24mm su*
	40	Half Hour Fire		1400	2800	10mm Pyrodur™
	50	Security		1500	3000	6mm to 12mm 24mm su*
	Demountable Fixed 	43	Heavy Duty/Security		1200	2200
55		Security		1500	3000	9.5mm to 22mm

note 1 – Series 20 and 60 have a limitation on the maximum area based on the spring balance capacity. Windows cannot be constructed with both dimensions maximised. Refer to Selectaglaze for advice

note 2 – Heavier glass will reduce the maximum size on some systems due to manual handling limitations. Refer to Selectaglaze for advice

* su – Sealed glass unit to form triple glazing

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels.

Selectaglaze reserves the right to change specifications without prior notice.

Refer to www.selectaglaze.co.uk for more information and a full range of product sheets

Tel: 01727 837271 e-mail: enquiries@selectaglaze.co.uk

Ref: Index (01/11)



Framing

The framing sections are made to exclusive Selectaglaze designs using an aluminium alloy. This strong, lightweight material is extruded to form the slender, complex shapes needed to accommodate seals, fixings and specialist hardware.

Forming:

Many of the sections can also be curved to follow the lines of the primary window.

Finishes

The aluminium can have a variety of finishes:

- Polyester Powder paint - Interpon and Synthapulvin
 - Wide colour range
 - Woodgrain effects
- Analok anodising
 - Architectural range of Silver, Black and shades of Bronze and Blue-grey

Standard finish: White - HIPCA semi gloss

All surface treatments have long life expectancy with minimum maintenance.



Gaskets

The glass is held in position by PVC nitrile gaskets or, in the case of the heavier casement systems, specialist bonding tapes that offer high levels of security.

The standard colour is black with white available as an option.

Weatherseals

The sliding units are fitted with twin silicone treated grey polypropylene pile seals from Schlegel, a world leader in quality seals.

Hinging units are fitted with high performance Q-Lon seals available in white, black or brown. The material has excellent 'memory' and retains its original shape year after year to give optimum performance.



Glazing

All glazing must be specified in accordance with BS 6262:2005 - code of practice for glazing in buildings and meet the requirements of Building Regulations Parts N1 and N2. Clear float glass is the standard specification but the product range allows a choice between 4mm and 12mm single glass and sealed units up to 24mm thickness dependent on the particular performance or regulatory requirement.

Enhanced Thermal

- low emissivity (hardcoat)
- sealed glass unit

Enhanced Sound

- acoustic laminates

Safety

- toughened
- laminated

Solar Control

- body tinted

Privacy

- patterned
- opaque laminate
- screen printed or etched
- switchable glass

Clarity

- anti-reflective glass
- low iron glass

Security

- anti-bandit laminates
- polycarbonate sheet
- glass/polycarbonate composites

Ancillary items

- **Ventilation** - Trickle ventilators, either standard or acoustically dampened, can be housed within a timber section generally at the head.
- **Acoustic linings** - Reveal linings to improve acoustic performance are available as mineral fibre board tiles, PVC faced acoustic foam or Rockwool filled perforated metal trays.
- **Blinds** - A full range of blinds including Venetian, drape and roller can be fitted in conjunction with secondary windows. Remote controls are available.

Grounds and Subframes

The windows are installed within the reveal via standard sized twice-white primed timber or mdf grounds. Where non-standard grounds, full subframes or new cills are required these are machined from best joinery quality softwood or mdf and finish decorated on exposed room side surfaces.

Sealants

Timber grounds and aluminium frames are bedded on acrylic compound to provide a lasting perimeter seal.

Assembly and fixing

Lightweight frames and sashes are mechanically jointed using stainless steel screws and the heavy duty frames including larger casements are crimp joined with aluminium cleats to afford maximum strength. Site fixings are selected to suit conditions and purpose.

Performances

The following standards and assessments are used to define product performance. Test results are made available.

Acoustic: Window styles tested in accordance with BS EN ISO 717-1:1997

Acoustics. Rating of sound insulation in buildings and of building elements.

Airborne sound insulation.

Thermal: Computer modelled u-values through Centre for Window and Cladding Technology (CWCT)

Security:

Intruder-stealth attack: Tested against the security requirements of BS 7950:1997

Specification for enhanced security performance of windows for domestic applications

Determined attack /containment: Tested to Loss Prevention Standard LPS 1175

Fire: Tested to BS EN 1364-1:1997 and BS EN 1363-1:1999

Ballistic: Tested to EN 1522/1523

Blast: Tested to ISO 16933

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels.

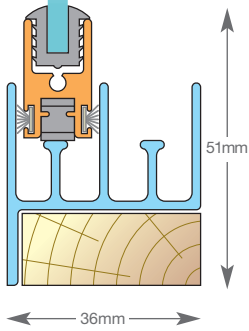
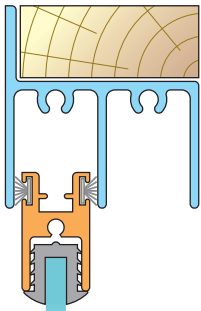
Selectaglaze reserves the right to change specifications without prior notice.

Refer to www.selectaglaze.co.uk for more information and a full range of product sheets

Tel: 01727 837271 e-mail: enquiries@selectaglaze.co.uk

Ref: Materials (01/11)

HEAD DETAIL

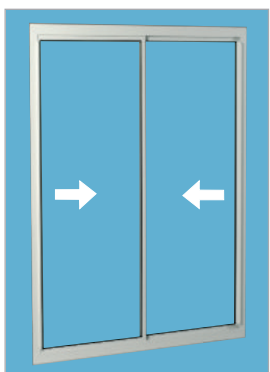


CILL DETAIL

Drawings not to scale



Acetyl glide



Design concept

- A slim and versatile horizontal sliding system that provides easy access for ventilation and is suitable for treating most types of window
- Available with 2, 3, 4 or even 5 sliding sashes (panels)
- Minimal impact on blinds or curtains



Design Features

- Sashes slide on glide pads or for larger sizes, stainless steel ball races with nylon tyres
- Integral full height projecting finger pulls
- Twin brush seals ensure high sealing efficiency
- Slim 23mm wide interlock stile as standard
- Heavy duty interlock for units over 1700mm high or those requiring locks
- Fixings concealed within the frame - trims not required
- Sashes are removable for maintenance and cleaning
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum individual sash 1100mm (w) x 2200mm (h)
- Minimum individual sash 300mm (w) x 300mm (h)
- Sash height to width ratio should not normally exceed 4:1
- Risk assessments for sash sizes must account for weight, location and type of end user

OPTIONS

Glazing:

- 4mm to 6.8mm

Frames:

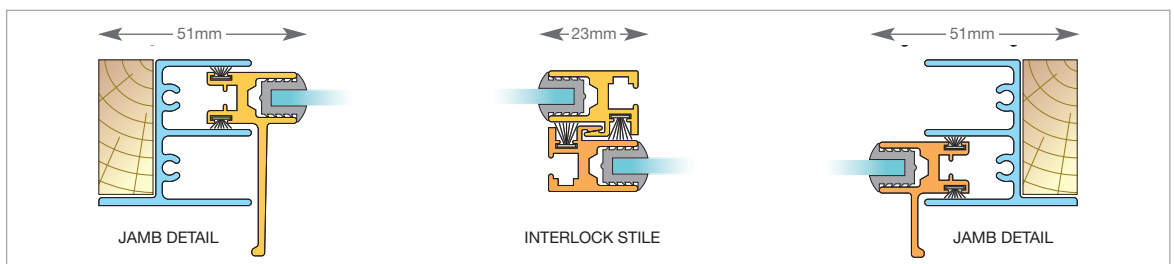
- Recessed finger pull to allow sashes to contra slide
- Heavy duty interlock stile
- 38mm box interlock stile
- Low profile running track to clear inward opening windows
- Triple track allowing 3 sashes to stack at one end

Hardware:

- Acetyl glide pads (standard)
- Stainless steel ball races fitted with tyres

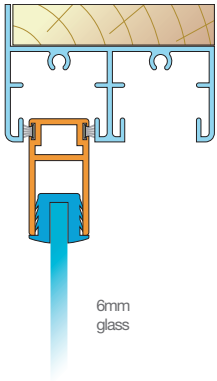
Locking:

- Flipper catch handle
- Fitch catch - white or silver
- Yale 8K100 security lock - white
- Plunge lock (box interlock stile only)
- Concealed shoot bolts
- Inverted 'U' channel restrictor

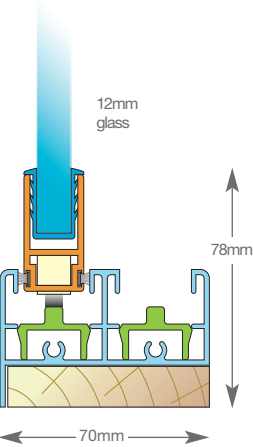


Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



6mm glass



12mm glass

78mm

70mm

CILL DETAIL

Drawings not to scale

Design concept

- A heavy duty horizontal sliding system suitable for treating large windows including Patio Doors
- Option with 'Secured by Design' accreditation
- Suitable for use as observation windows, secure receptions and recording studio doors
- Glazing options up to 12mm thickness offer enhanced acoustic insulation and improved security levels
- Available with 2, 3 or 4 sliding sashes (panels)



Design Features

- Sashes run on stainless steel ball races
- Moulded pull handles in white or black
- Twin brush seals ensure high sealing efficiency
- 40mm wide interlock stile
- Fixings concealed within the frame - trims not required
- Sashes are removable for maintenance and cleaning
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum individual sash 1500mm (w) x 2600mm (h)
- Minimum individual sash 500mm (w) x 600mm (h)



Moulded handle

OPTIONS

Glazing:

- 6mm to 12mm

Frames:

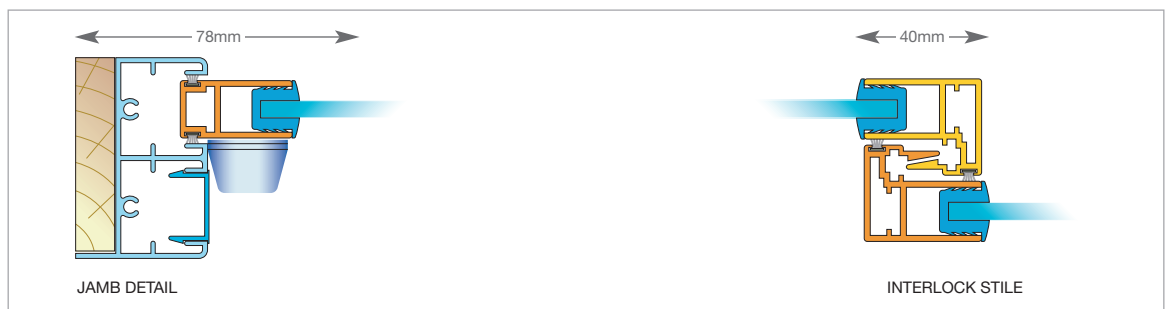
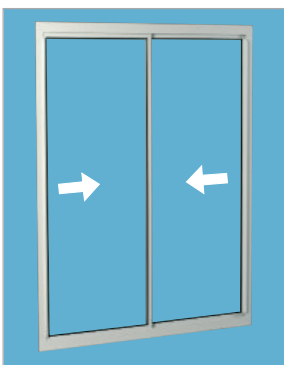
- Recessed finger pull to allow sashes to contra slide
- Curved sides - minimum radius 500mm

Hardware:

- Anti-lift blocks
- D-pull handle

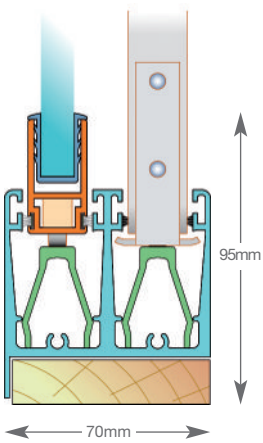
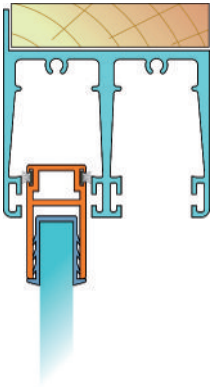
Locking:

- Rosette (square drive/removable key)
- 'Secured by Design' multipoint
- Single fitch catch - white or silver



Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



CILL DETAIL

Drawings not to scale

Design concept

- A sliding system in two panels with certified levels of protection against blast to level EXV25 of standard ISO 16933 and against physical attack to levels SR1 and SR2 of Loss Prevention Standard LPS1175
- The physical resistance is equivalent to high security bars or grilles and so provides a more normal living or working environment



Design Features

- Robust frame
- Finger pulls
- Secure multipoint locking
- Anti lift and anti jemmy features
- Supports laminated glass and glass/polycarbonate composites
- Fixings concealed within the frame - trims not required
- Sashes are removable by specialists for maintenance and cleaning

Size Guidelines

- Maximum 2600mm (w) x 2600mm (h)
- Minimum 1200mm (w) x 600mm (h)



Physical Attack

OPTIONS

Glazing:

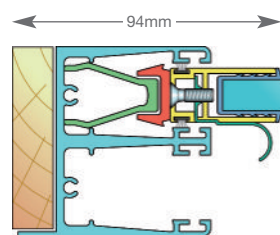
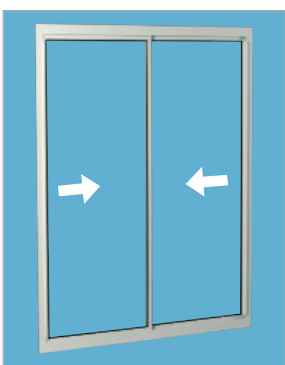
- 9.5mm to 12mm

Frames:

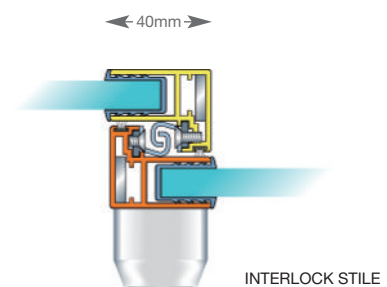
- No options

Frames:

- No options



JAMB DETAIL



INTERLOCK STILE

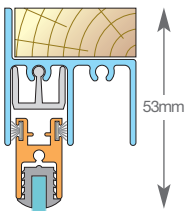
Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

Refer to www.selectaglaze.co.uk for more information and a full range of product sheets

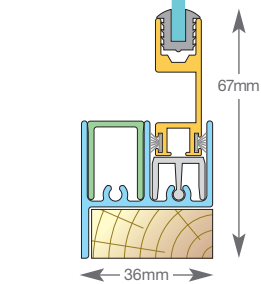
Tel: 01727 837271 e-mail: enquiries@selectaglaze.co.uk

Ref: S85 (01/11)

HEAD DETAIL



STANDARD INTERLOCK STILE



CILL DETAIL

Drawings not to scale

Design concept

- A slim section vertical sliding system with the weight of the sashes (panels) supported by spring balances to any position and providing easy and safe access to the outer window
- Suitable for treating traditional sash windows and reception hatches
- Sashes contra slide to allow access for cleaning but are not removable
- A minimum 75mm gap between the inner and outer window is recommended to assist with access to the outer window catch and for cleaning

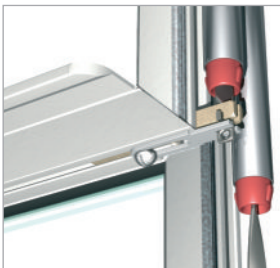


Design Features

- The sashes are orientated to provide easy access to the operating handles
- Twin brush seals ensure high sealing efficiency
- Slim 23mm wide interlock stile as standard
- Fixings concealed within the frame - trims not required
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum area dictated by 20Kg balance capacity per sash
- Maximum sash dimension 1500mm (width or height)
- Minimum sash dimension 400mm (width or height)
- Sash height to width ratio should not normally exceed 1:3



Detail of balance attachments

OPTIONS

Glazing:

- 4mm to 6.8mm

Frame:

- Curved heads - minimum radius 450mm
- 38mm box interlock stile for additional strength

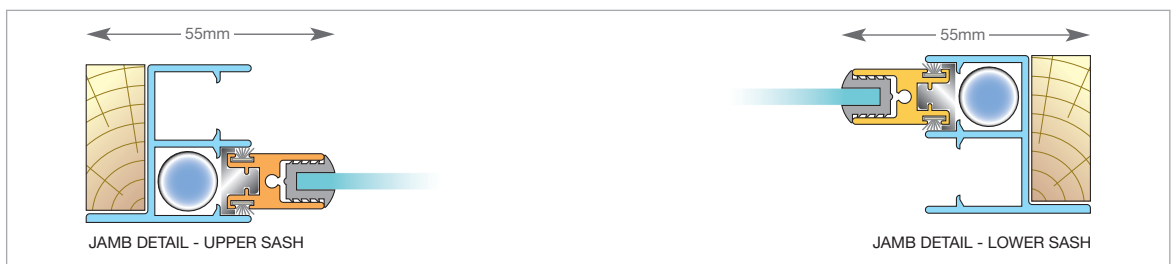
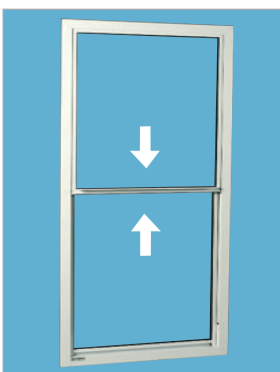
Hardware:

- D-pull handles

Locking:

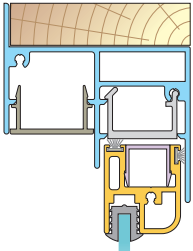
- Fitch catch - white or silver
- Yale 8K100 security lock - white
- Plunge lock (box interlock stile only)

Windows with unequal sized sashes or curved heads will have restricted opening capacity and this will affect access to external window catches.

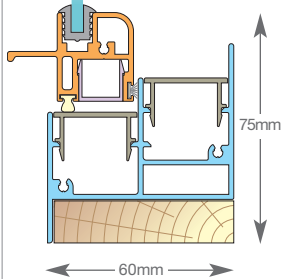
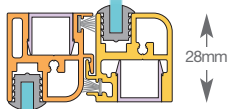


Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



INTERLOCK STILE



CILL DETAIL

Drawings not to scale

Design concept

- A vertical sliding system that allows the sashes (panels) to tilt-in to the room to facilitate cleaning
- Particularly suited to treating traditional sash windows with offset meeting stiles
- Allows close fitting to existing windows
- Safety in use has been a key element in the design of the system



Design Features

- Spring release catches allow sashes to tilt in
- Stainless steel stay arms safely hold the sash in the open position
- Friction brake mechanism prevents the sashes sliding in the tilt position
- Slim 28mm wide interlock stile
- Twin seals ensure high sealing efficiency
- Fixings concealed within the frame - trims not required
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum area dictated by 20Kg balance capacity per sash
- Maximum sash dimension 1500mm (width or height)
- Minimum sash dimension 400mm (width or height)
- Sash height to width ratio should not normally exceed 1:3



Sashes in tilt position

OPTIONS

Glazing:

- 4mm to 6.8mm

Frame:

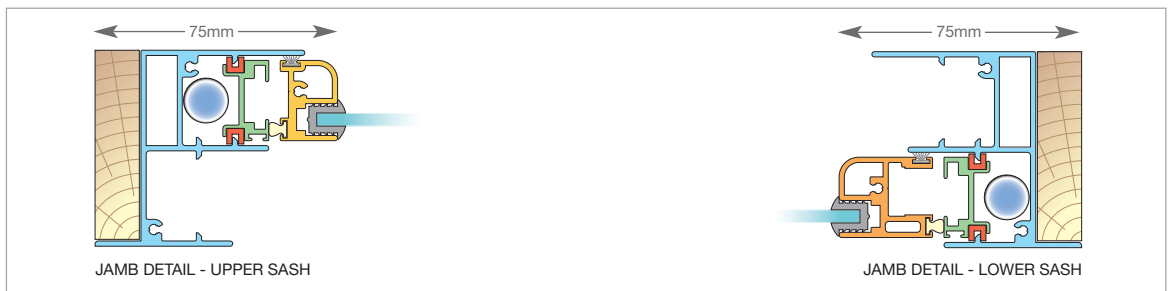
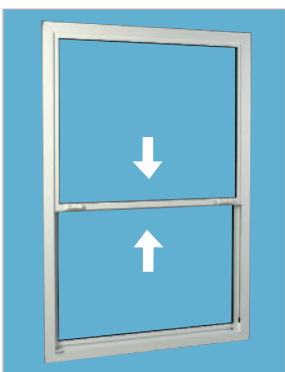
- No options

Hardware:

- D-pull handles to upper sash

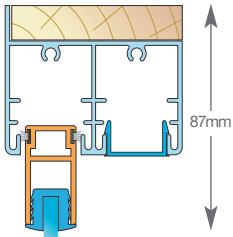
Locking:

- Fitch catch - white or silver

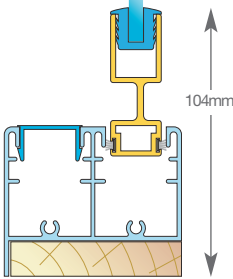
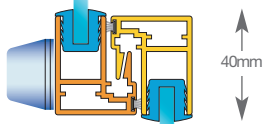


Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



INTERLOCK STILE



CILL DETAIL

Drawings not to scale

Design concept

- A heavy duty vertical sliding system operating on pre-tensioned Torso spring balances suitable for treating 'monumental' sized sash windows.
- Option with 'Secured by Design' accreditation
- Glazing options up to 12mm thickness offer enhanced acoustic insulation and improved security levels
- Sashes contra slide to allow access for cleaning and can be detached from the spring balances by specialists for maintenance
- A minimum 75mm gap between the inner and outer window is recommended to assist with access to the outer window catch and for cleaning



Design Features

- The sashes are orientated to provide easy access to the operating handles
- Twin brush seals ensure high sealing efficiency
- 40mm wide interlock stile
- Fixings concealed within the frame - trims not required
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum area dictated by standard 50Kg balance capacity or 65Kg to special order
- Maximum sash 1600mm (w) x 1800mm (h)
- Minimum sash 500mm (w) x 500mm (h)



Lower sash - recessed finger lift

OPTIONS

Glazing:

- 6mm to 12mm

Frame:

- Curved heads - minimum radius 500mm

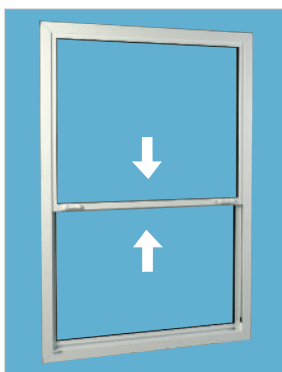
Hardware:

- D-pull handles

Locking:

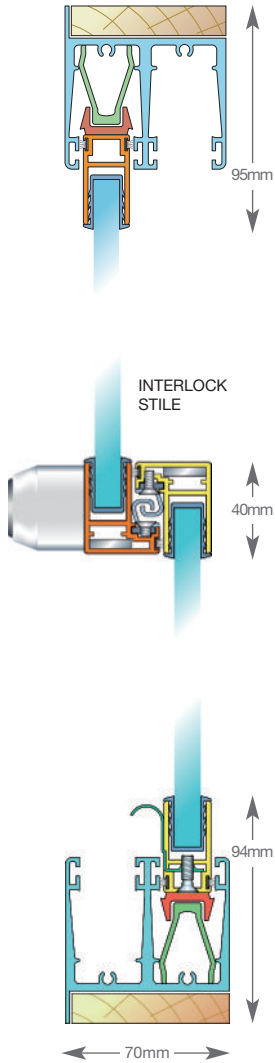
- Fitch catch - white or silver
- Standard multipoint
- 'Secured by Design' multipoint

Windows with unequal sized sashes or curved heads will have restricted opening capacity and this will affect access to external window catches.



Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL

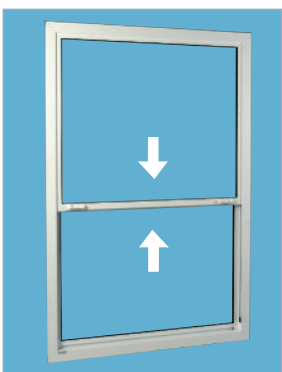


CILL DETAIL

Drawings not to scale



Blast resistance testing



Design concept

- A vertical sliding system operating on pre-tensioned Torso spring balances with certified levels of protection against blast to level EXV25 of standard ISO 16933 and against physical attack to levels SR1 and SR2 of Loss Prevention Standard LPS1175
- The physical resistance is equivalent to high security bars or grilles and so provides a more normal living or working environment



Design Features

- Robust frame
- Finger pulls
- Secure multipoint locking
- Anti lift and anti jemmy features
- Supports laminated glass and glass/polycarbonate composites
- Fixings concealed within the frame - trims not required
- Sashes are removable by specialists for maintenance and cleaning

Size Guidelines

- Maximum individual sash 1600mm (w) x 1800mm (h)
- Minimum individual sash 700mm (w) x 1300mm (h)

OPTIONS

Glazing:

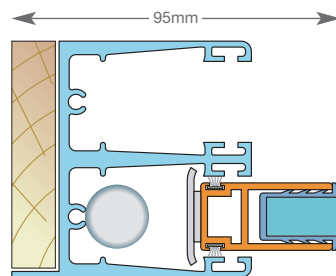
- 9.5mm to 12mm

Frames:

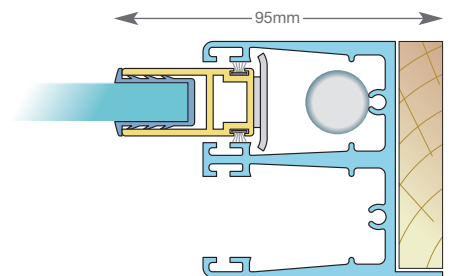
- No options

Frames:

- No options



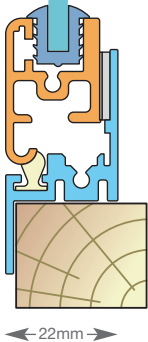
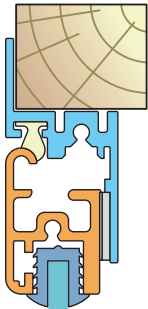
JAMB DETAIL UPPER SASH



JAMB DETAIL LOWER SASH

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



CILL DETAIL

Drawings not to scale

Design concept

- A very slim hinged casement that can fit in the staff bead position of an existing sash window allowing working shutters to be retained in most instances. Window openings need to be square and projecting finger lifts on the primary window need to be removed and replaced with recessed lifts
- Combines the need to retain architectural features with that of conserving energy
- Minimal visual impact on existing windows



Design Features

- Strong, purpose designed flush hinges colour matched to frame
- Magnetic and compression seals
- Multipoint latch
- 90° restrictor stay
- 4mm toughened, low emissivity glass for optimum thermal insulation
- Fixings are concealed within the frame

Size Guidelines

- Maximum casement 1000mm (w) x 2000mm (h)
- Minimum casement 300mm (w) x 300mm (h)

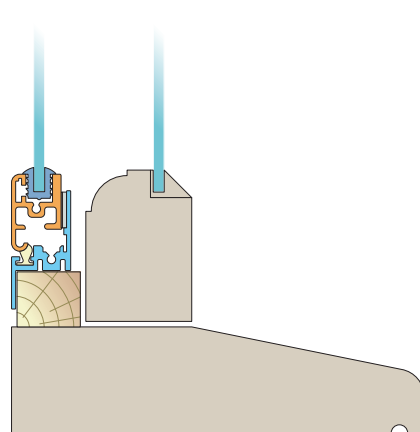
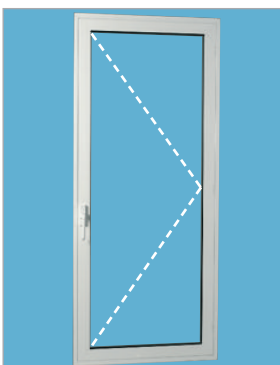
OPTIONS

Hardware:

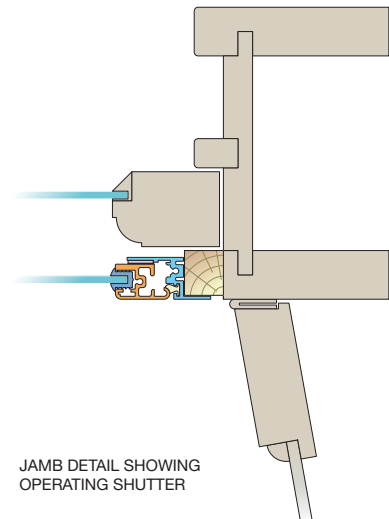
- Standard colour matched latch button
- Slimline colour matched latch button



Latch detail



CILL DETAIL SHOWING PRIMARY WINDOW POSITION



JAMB DETAIL SHOWING OPERATING SHUTTER

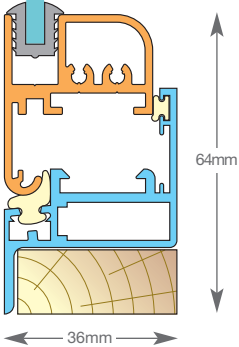
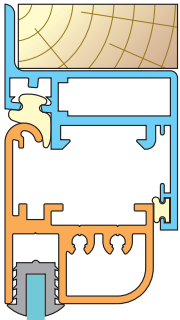
Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

Refer to www.selectaglaze.co.uk for more information and a full range of product sheets

Tel: 01727 837271 e-mail: enquiries@selectaglaze.co.uk

Ref: S47 (01/11)

HEAD DETAIL

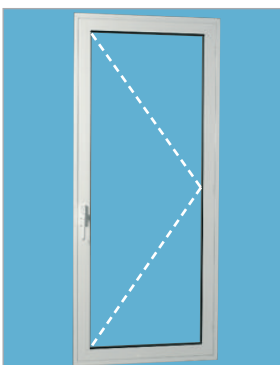


CILL DETAIL

Drawings not to scale



Flush lock with female



Design concept

- A hinged casement with slim lines which offers a useful alternative treatment for sash windows in Heritage and Listed Buildings
- Single casement option with 'Secured by Design' accreditation
- Flush lines on the room side with a minimal dust ledge make it suitable for clean health environments
- Available as a single side hung, top hung or bottom hung casement, double side hung that provides unrestricted access to the outer door or window and a stable door format particularly suited to sash and case window designs.



Design Features

- Strong, purpose designed flush hinges colour matched to frame
- Twin compression seals
- 90° restrictor stay
- Unrestricted access to French Doors
- Fixings concealed within the frame - trims not required
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum single casement 1300mm (w) x 2200mm (h)
- Maximum double casement 2400mm (w) x 2200mm (h)
- Maximum stable door 1200mm (w) x 2400mm (h)
- Minimum single casement 500mm (w) x 800mm (h)

OPTIONS

Glazing:

- 4mm to 6.8mm

Frame:

- Curved window head or triangulated curve - minimum radius 450mm
- Rebated frame to allow 180° opening
- Low threshold cill

When specifying hinged casements it is important to consider the impact of ceiling bulkheads, blinds and curtains

Hardware:

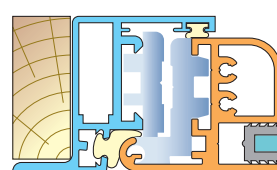
- Espagnolette handle non locking (standard)
- Espagnolette handle locking
- Square drive operated flush lock with ferrule or cover plate
- Variable restrictor stay

Handles are powder coated and colour matched to frame

Locking:

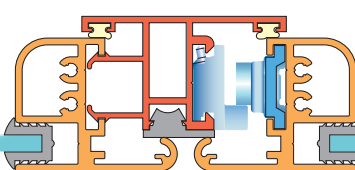
- Standard multipoint
- 'Secured by Design' multipoint (single leaf only)
- Surface spring catch for curved units
- Rosette handles for a radius over 500mm

64mm



JAMB DETAIL (HINGE)

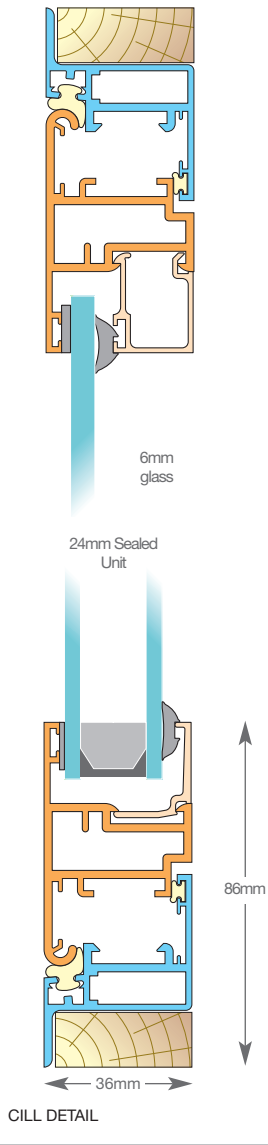
81mm



MEETING STILE (DOUBLE CASEMENT)

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



Drawings not to scale

Design concept

- A heavy duty hinged casement suitable for large windows and doors, clean and secure environments or, when glazed with sealed units, optimum thermal insulation
- Single casement option with 'Secured by Design' accreditation
- Beading to the cavity side allows glazing from 6mm single glass to 24mm sealed units without affecting the clean flush lines on the room side
- Available as a single side hung, top hung or bottom hung casement or a double side hung that provides unrestricted access to the outer door or window and a stable door format particularly suited to sash and case designs



Design Features

- Strong, purpose designed flush hinges colour matched to frame twin compression seals
- 3 bead options
- 90° restrictor stay
- Unrestricted access to French Doors
- Fixings concealed within the frame - trims not required
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum single casement 1500mm (w) x 2700mm (h)
- Maximum double casement 3000mm (w) x 2700mm (h)
- Maximum stable door 1400mm (w) x 3000mm (h)
- Minimum single casement 500mm (w) x 800mm (h)

OPTIONS

Glazing:

- 6mm to 12mm single glass
- 6mm to 12mm hardcoat polycarbonate
- 24mm sealed units

Frame:

- Curved window head or triangulated curve - minimum radius 450mm
- Curved on plan - minimum radius 1800mm
- Rebated frame to allow 180° opening
- Mid rail "muntin" section
- Low threshold cill

When specifying hinged casements it is important to consider the impact of ceiling bulkheads, blinds and curtains

Hardware:

- Espagnolette handle non-locking (standard)
- Espagnolette handle locking
- Square drive operated flush lock with ferrule or cover plate
- Variable restrictor

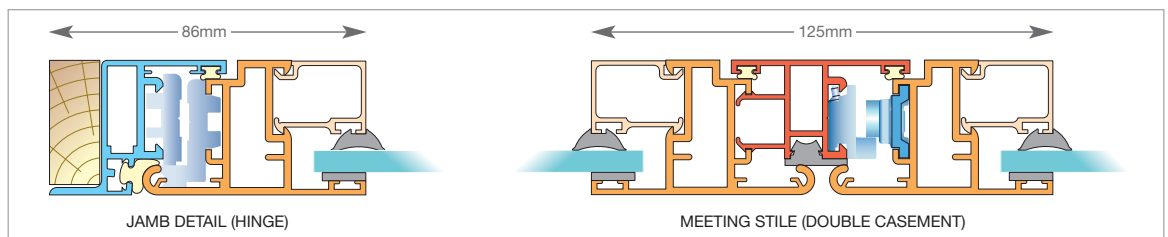
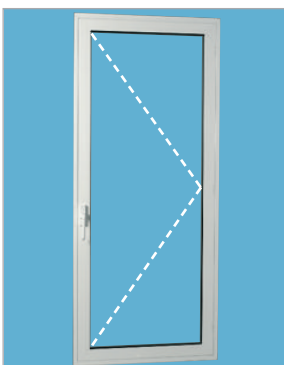
Handles are powder coated and colour matched to frame

Locking:

- Standard multipoint
- "Secured by Design" multipoint (single leaf only)
- Surface spring catch for curved units
- Rosette handle for a radius over 500mm

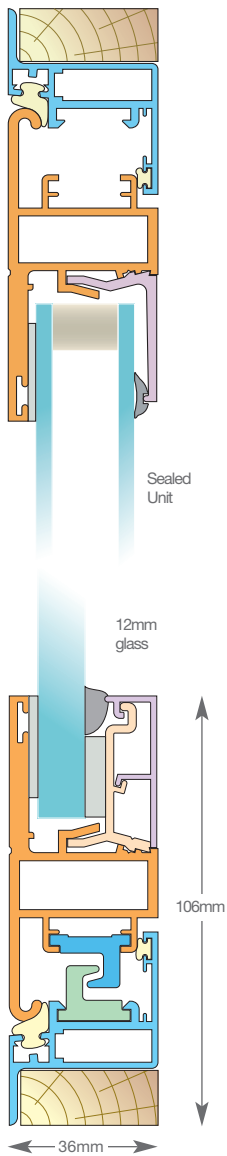


Espagnolette handle - non locking



Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL
(non security mode)

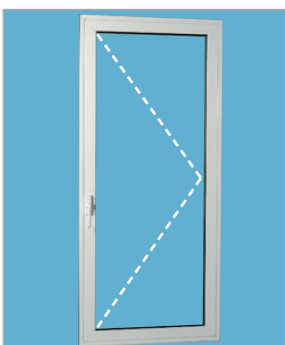


CILL DETAIL
(security mode)

Drawings not to scale



Security locking bars



Design concept

- An extremely strong security rated hinged casement system for enhanced protection against blast and intruder
- Also suitable for treating very large windows and doors with thicker glass or sealed unit glazing
- Single casement option with 'Secured by Design' accreditation or Red Book listing
- Available as a single side hung, top hung or bottom hung casement or a double side hung that provides unrestricted access to the outer door or window



Design Features

- Flush glazing with 30mm rebate provides additional strength and a minimal dust ledge
- Strong, purpose designed flush hinges colour matched to frame
- Twin compression seals
- 90° restrictor stay (non security mode)
- Unrestricted access to French Doors
- Fixings concealed within the frame - trims not required
- Frames may be linked with a colour matched transom/mullion section

Size Guidelines

- Maximum single casement 1500mm (w) x 3200mm (h)
- Maximum double casement 3000mm (w) x 3200mm (h)
- Minimum single casement 500mm (w) x 800mm (h)

OPTIONS

Glazing:

- 6mm to 12mm single glass
- 6mm to 12mm hardcoat polycarbonate
- 24mm sealed units

Frames:

- Curved window head or triangulated curve - minimum radius 1000mm
- Low threshold cill

When specifying hinged casements it is important to consider the impact of ceiling bulkheads, blinds and curtains

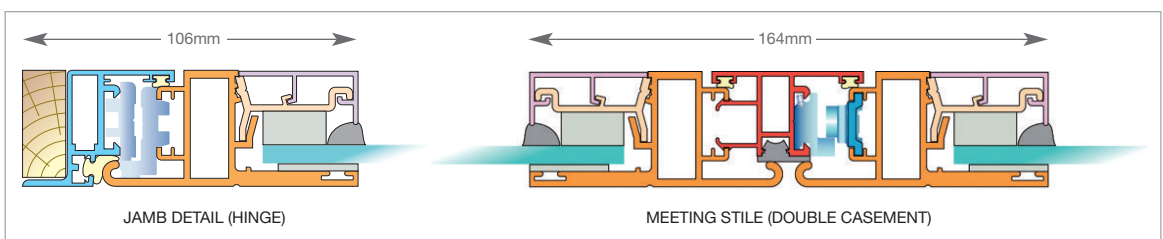
Hardware:

- Espagnolette handle non-locking (standard for non security mode)
- Espagnolette handle locking (standard for security mode)
- Square drive operated flush lock with ferrule or cover plate (non security mode)
- Variable restrictor (non security mode)

Handles are powder coated and colour matched to frame

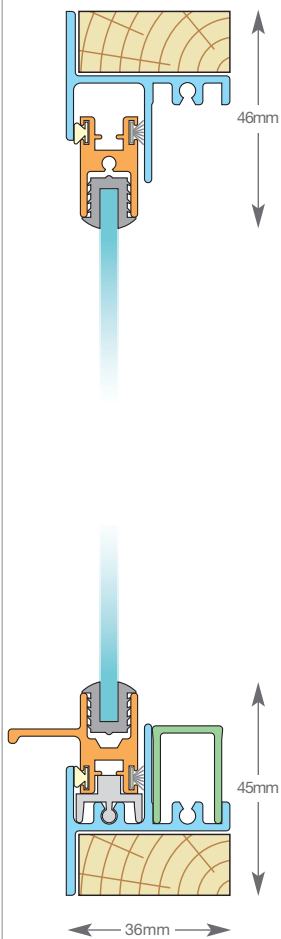
Locking:

- Standard multipoint
- "Secured by Design" multipoint (single leaf only)
- High security multipoint 'Red Book' (single leaf only)
- Rosette handle for curved units



Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



CILL DETAIL

Vertical Lift

Drawings not to scale

Design concept

- A slimline lift-out panel offering a practical way of treating windows that are rarely used but which need access for cleaning or maintenance
- Available in two versions - vertical lift or side shuffle for tall, narrow panels
- Lift outs can be used in combination with other window styles as side lights or over lights



Design Features

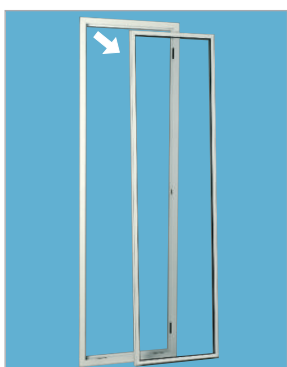
- Integral finger lift/pull
- Standard screw lock to side shuffle (not shown)
- Fixings concealed within the frame - trims not required
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum sash - vertical lift 1000mm (w) x 1700mm (h)
- Maximum sash - side shuffle 1000mm (w) x 2200mm (h)
- Risk assessments for sash sizes must account for weight, location and type of end user



Key locking option



OPTIONS

Glazing:

- 4mm to 6.8mm

Frames:

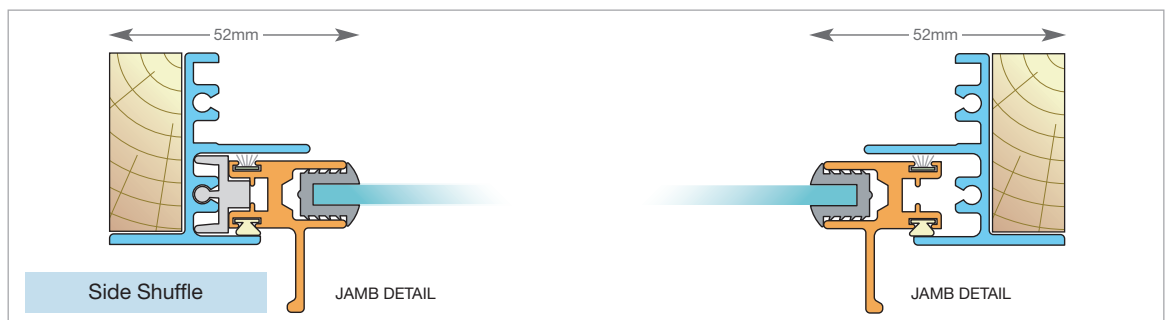
- Vertical lift
- Side shuffle

Hardware:

- No options

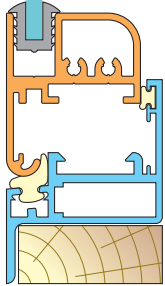
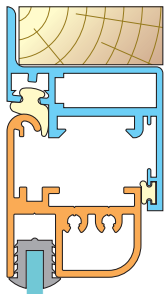
Locking:

- Screw lock
- Key lock



Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



64mm

36mm

CILL DETAIL

Series 45

Design concept

- A removable panel constructed from Series 41 or 45 casement sections without hinges
- Suitable for shaped and circular openings requiring access for cleaning and maintenance or large rectangular windows behind bulkheads



Design Features

- Multipoint flush locking to rectangular frames
- Surface mounted spring catches for curved or circular frames
- Sprung auto latching restrictor
- Rectangular frames may be linked with a colour matched aluminium transom/mullion section
- Fixings are concealed within the frame - trims not required

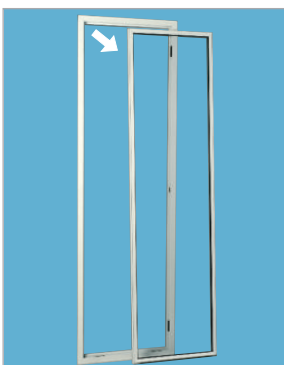
Size Guidelines

- Series 45 maximum sash 1000mm (w) x 2000mm (h)
- Series 41 maximum sash 1200mm (w) x 2400mm (h)
- Risk assessments for sash sizes must account for weight, location and type of end user

Drawings not to scale



Surface spring catch - curved units



OPTIONS

Glazing:

- Series 45 - 4mm to 6.8mm
- Series 41 - 6mm to 12mm - 24mm sealed units

Frames:

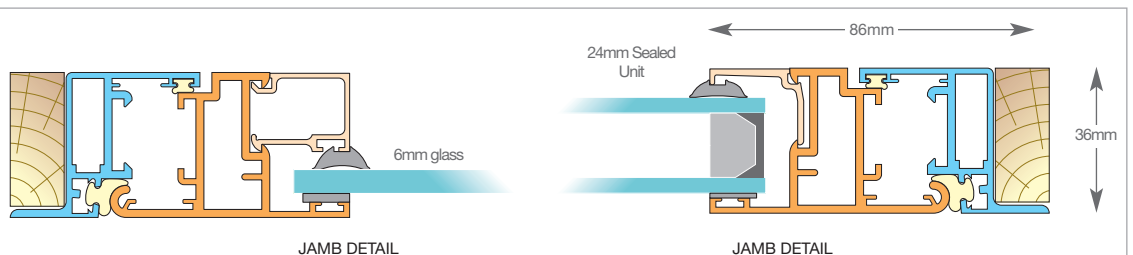
- Curved head, triangulated curve or full circle - minimum radius 450mm

Hardware:

- D handles

Locking:

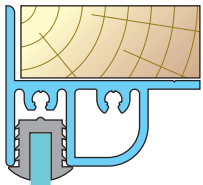
- Rosette (square drive/removable key)



Series 41

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



CILL DETAIL

Series 45

Drawings not to scale

Design concept

- Lightweight sections with minimal sightlines and 'Secured by Design' accreditation
- Mostly fitted in conjunction with other window styles to allow access for cleaning and maintenance
- Series 45 has a flush face with a minimal dust ledge and is suited to clean environments. It is fixed through the flange using capped screws
- Series 46 has a concealed room side fixing channel and is particularly suited to the treatment of arched head windows



Design Features

- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

- Maximum 1000mm x 2000mm
- Minimum 300mm x 300mm

OPTIONS

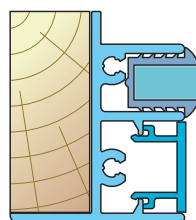
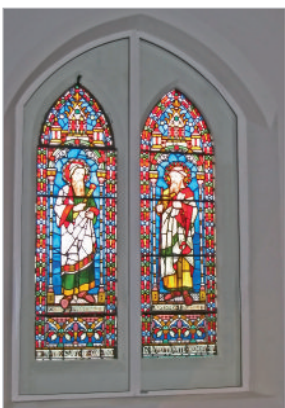
Glazing:

- 4mm to 6.8mm

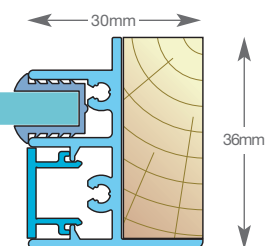
Frames:

- Curved - minimum radius 300mm (full circle available)

When specifying fixed frames, consider access needs both for cleaning and possible escape



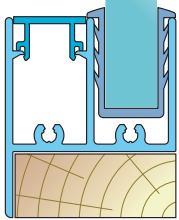
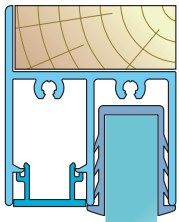
Series 46



JAMB DETAIL

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



CILL DETAIL

Series 42

Drawings not to scale



Design concept

- Series 42 fixed frame supports glass up to 12mm thick and has a concealed room side fixing channel
- It offers enhanced acoustic insulation, additional security with 'Secured by Design' accreditation and is suited to the treatment of arched head windows
- Series 43 is a demountable fixed frame. An aluminium subframe is permanently anchored to the reveal or wall face and a Series 42 glazed frame attached with machine screws which are removable to allow the panel to be sleeved out for cleaning or maintenance
- The Series 43 frame offers considerable strength against physical attack or blast and the minimal sightline is helpful when conservation issues are important



Design Features

- Strong sections with minimal sightlines
- 20mm glass edge cover
- Series 43 allows a maximum of 4 sashes to be linked horizontally and 3 vertically
- Fixings are concealed within the frame

Size Guidelines

- Maximum sash 1200mm x 2200mm
- Minimum sash 300mm x 300mm

Risk assessments for sash sizes must account for weight, location and type of end user

OPTIONS

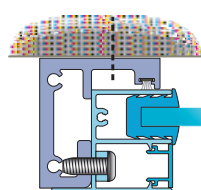
Glazing:

- 6mm to 12mm

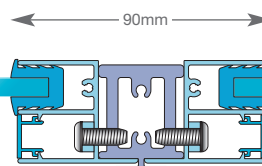
Frames:

- Curved to minimum radius 450mm
- Full circle to minimum radius 1000mm

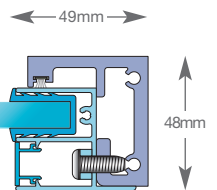
When specifying fixed or demountable fixed frames, consider access needs both for cleaning and possible escape



FACE FIX



MULLION COUPLING

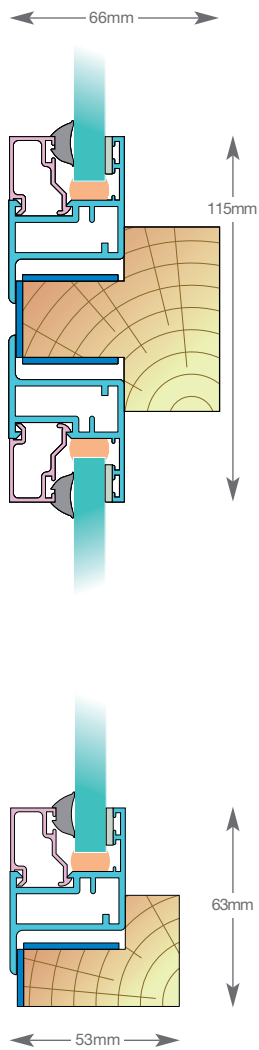


REVEAL FIX

Series 43

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

COUPLING DETAIL



CILL DETAIL

Fire Rated

Design concept

- A bead glazed fixed panel providing 30 minute fire integrity suitable for treating windows adjacent to fire escape routes
- Designed to fit within rectangular fire resistant openings
- Series 40 fixed light is also used in **non-fire** applications such as **clean room** environments using a chamfered bead and vision panels for **control rooms**
- Accredited to 'Secured by Design'
- A range of glazing beads allows the use of glass up to 12mm thick for enhanced noise insulation or sealed unit glazing



Design Features

Fire Rated

- European Redwood subframe with intumescent seals
- Fixings concealed within the frame
- 10mm Pilkington Pyrodur™ fire rated glass
- Frames may be linked with fire rated timber transom/mullion section

Non-Fire

- Range of 4 beads for different glazing specifications
- Frames may be linked with a colour matched aluminium transom/mullion section

Size Guidelines

Fire Rated

- Maximum 1400mm (w) x 2800mm (h)
- Minimum 300mm (w) x 700mm (h)

Non-Fire

- Maximum 1200mm (w) x 2400mm (h)
- Minimum 300mm (w) x 300mm (h)

Drawings not to scale



OPTIONS

Glazing:

Non-Fire

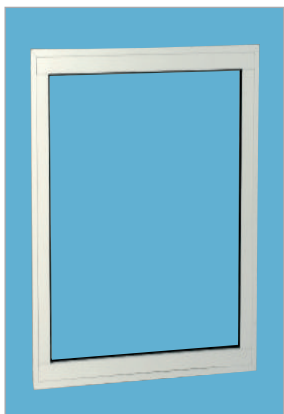
- 6mm to 12mm single glass
- 24mm sealed units

Frames:

Non-Fire

- Curved - minimum radius 450mm (full circle available)
- Curved on plan - minimum radius 1800mm

When specifying fixed frames, consider access needs both for cleaning and possible escape



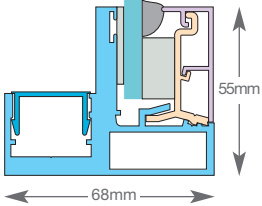
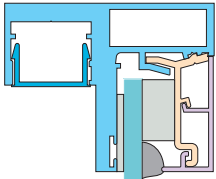
Non-Fire Rated

JAMB DETAIL

JAMB DETAIL WITH SLOPED BEAD

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

HEAD DETAIL



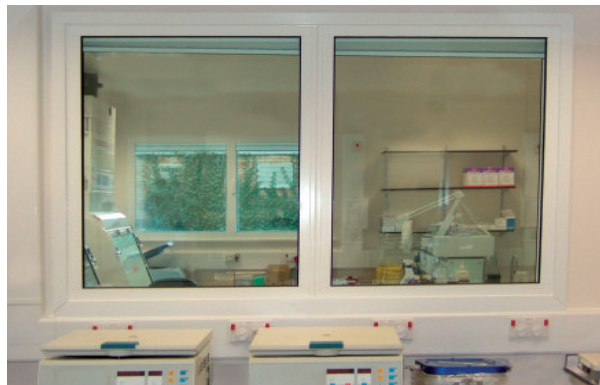
CILL DETAIL

Series 50

Drawings not to scale

Design concept

- Series 50 is a heavy duty fixed frame designed for high security applications
- Suitable for use as a vision panel in control room partitions
- Series 55 is a demountable fixed frame.
An aluminium subframe is permanently anchored to the reveal or wall face and a Series 50 glazed frame attached with machine screws which are removable to allow the panel to be sleeved out for cleaning or maintenance
- Subject to glazing and frame specification, protection can be provided against blast to levels EXV15 and EXV25 of standard ISO 16933, against physical attack to levels SR1, SR2, SR3 of Loss Prevention Standard LPS1175 and ballistic protection to level FB4



Design Features

- Very strong sections
- 30mm glass edge cover
- 3 bead options
- Series 55 allows a maximum of 4 sashes to be linked horizontally and 3 vertically
- Fixings are concealed within the frame

Size Guidelines

- Maximum sash 1500mm x 3000mm
- Minimum sash 400mm x 400mm

Risk assessments for sash sizes must account for weight, location and type of end user



Blast Test



OPTIONS

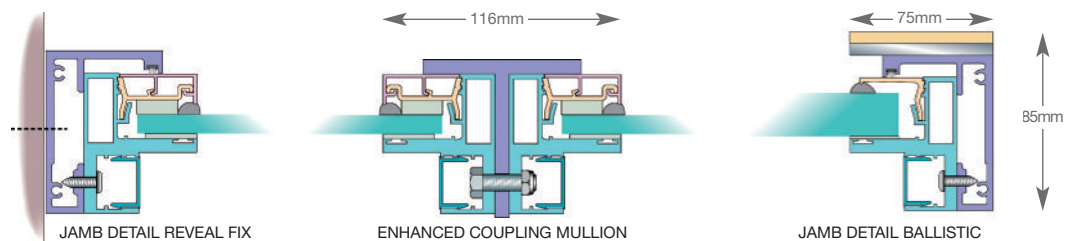
Glazing:

- 6mm to 12mm
- Choice of laminated glass, scratch resistant polycarbonate or composite glass/polycarbonates
- 22mm ballistic glass

Frames:

- Series 50
- Curved to minimum radius 1000mm
- Series 55
- Curved to minimum radius 1500mm (non ballistic)
- Steel reinforcement for ballistic protection (rectangular frames)

When specifying fixed or demountable fixed frames, consider access needs both for cleaning and possible escape

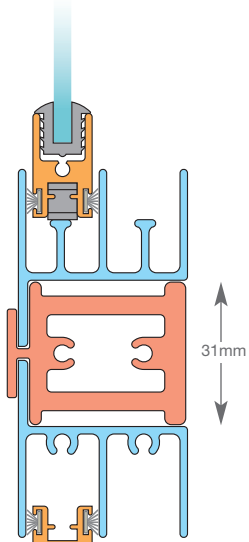


Series 55

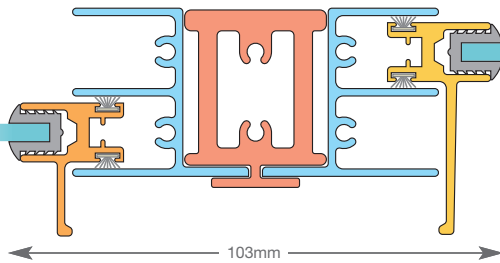
Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels. Selectaglaze reserves the right to change specifications without prior notice.

Standard Mullion/Transom

- Maintains clean lines
- Colour matched to frames
- Accepts common 36mm frame depth of Series 10, 20, 30, 40, 41, 42, 45, 46 and 50
- 'H' profile to room side face gives positive frame location and ensures a good seal



31mm



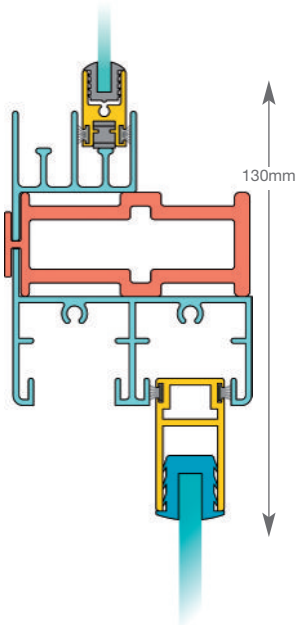
103mm

Heavy Duty Mullion/Transom

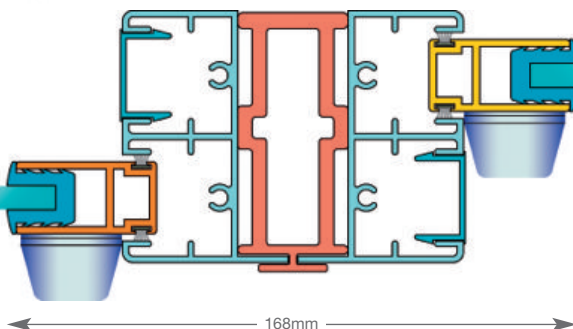
- Maintains clean lines
- Colour matched to frames
- Couples Series 60, 80 and 90 to each other and to other series
- 'H' profile to room side face gives positive frame location and ensures a good seal

Box mullions

76mm x 38mm or 45mm x 102mm box sections may be specified for wide span transoms or mullions that provide a partition location point (not illustrated)



130mm



168mm

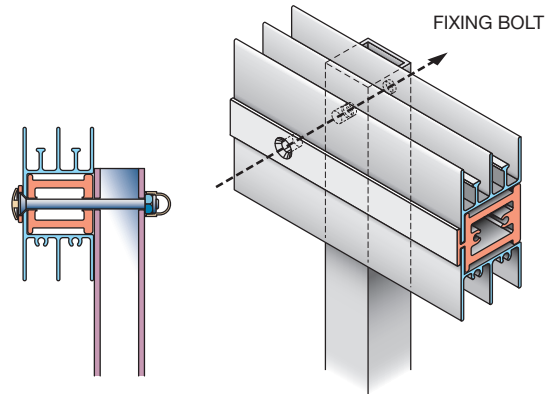
Transom Support

Guidance

- Transom spans above 1.4m may require separate support
- Factors will include the upper window
 - style
 - size
 - glazing

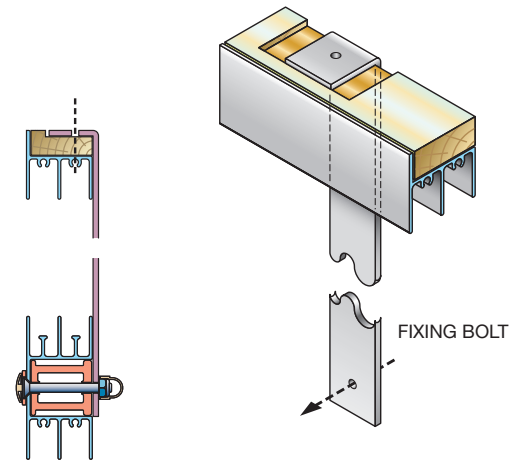
Standard method

25mm box section set behind interlock stile and bolted to transom

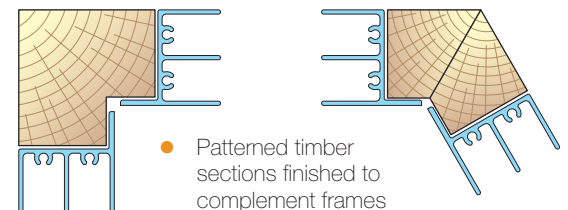


Alternative method

25mm flat bar hanger bolted to transom. This method is weight dependent.



Shaped coupling



- Patterned timber sections finished to complement frames
- Suitable for
 - bay windows
 - slope glazing

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels.

Selectaglaze reserves the right to change specifications without prior notice.

Refer to www.selectaglaze.co.uk for more information and a full range of product sheets

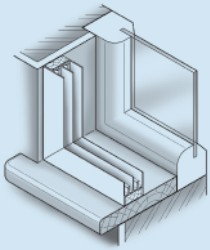
Tel: 01727 837271 e-mail: enquiries@selectaglaze.co.uk

Ref: Coupling (01/11)

Selectaglaze secondary windows are designed to present a clean appearance on the room side. All units are purpose made to suit a particular window opening and so ensure the highest performance. The odd leg frame system allows tolerances to be accommodated without applying face cover fillets. In almost all circumstances fixings are concealed within the framework. When larger section timber frames or cill extensions are required these are finish decorated on exposed room side surfaces. Typical fixing details are illustrated

S1

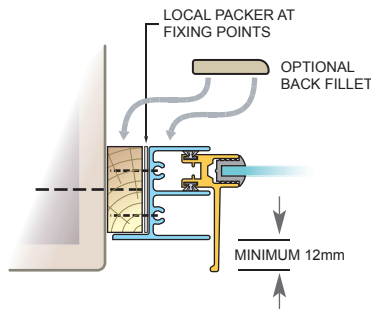
Standard Square Reveal Fix



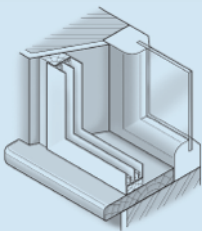
- 33mm x 15mm twice primed softwood ground bedded on acrylic mastic and fixed to structure
- Odd leg frame with applied mastic lips ground and is fixed to it
- Local concealed packers take up opening tolerance
- Optional caulking point between frame and wall allows finished decoration

Guidance

- Set back minimum 12mm from wall face to avoid blowing plasterwork
- Any hinge fixings must penetrate into structure
- Enlarged timber grounds required when:
 - dealing with very irregular openings
 - providing access to remote blind controls
- Optional back fillet available to conceal packing



S2

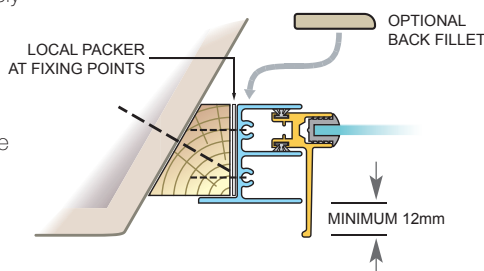


Splayed Reveal Fix

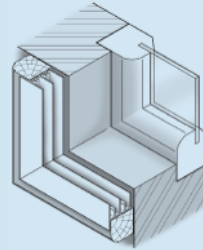
- Shaped softwood ground is machined to match the splay
- Aluminium frame fixing continues as S1

Guidance

- When attaching to shutters, ensure that these are securely fixed back and sealed
- Timber section can be sized to accommodate remote blind controls
- 12mm minimum setback as S1



S3

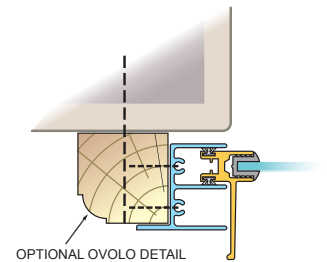


Face Fix

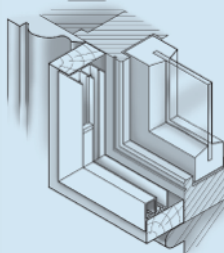
- Softwood frame with minimum 38mm x 32mm section bedded on acrylic mastic and fixed back to structure
- Optional ovolo moulding
- Aluminium frame fixing continues as S1

Guidance

- Suitable detail where:
 - no reveal exists
 - clearance is needed for inward opening windows
- Remote blind controls and ventilators cannot normally be accommodated



S4

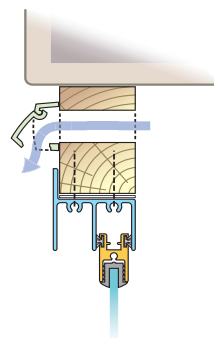
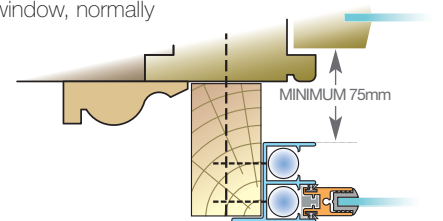


Inset Box Sash

- Timber sized to provide a minimum 75mm glass to glass cavity and fixed back to box sash
- Optional ovolo moulding
- Aluminium frame fixing continues as S1

Guidance

- Minimum 75mm cavity applies to use of matching sash window, normally Series 20
- Existing architraves will sometimes need to be resited both for practical and visual reasons



Ventilators

- Accommodated through enlarged timber section generally at head of window

Selectaglaze has developed a wide product range to protect living and working environments against noise, heat loss, ingress of dirt, fire, intruders or the effects of blast. Available window styles include horizontal sliding, vertical sliding, hinged, lift-out, fixed and demountable fixed panels.

Selectaglaze reserves the right to change specifications without prior notice.

Refer to www.selectaglaze.co.uk for more information and a full range of product sheets

Tel: 01727 837271 e-mail: enquiries@selectaglaze.co.uk

Ref: Fixing (01/11)