

Your No 1 Trade Supplier

Secondary Glazing Specialists

**For Noise Insulation,
Draught Proofing
and Fly Screens**

20 years of UK manufacturing



HEAD OFFICE

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Specialists in Secondary Glazing

We have designed and manufactured a Secondary Glazing System that's second-to-none. Our system is in use all over the United Kingdom, reducing noise levels and excluding draughts in a most attractive fashion. In fact all our units are available in a variety of colours should you wish to colour coordinate with your decor.

The pre-painted, pre-drilled surround eliminates the need for timber batons and liners and with no painting required speeds up installation whilst dramatically reducing installation costs.

Noise and draughts are not the only nuisances suffered particularly in the summer. When doors and windows are opened we are subjected to an aerial attack by insects. These are not only a nuisance, insects can be a definite health risk.

We have our own unique flyscreen suite to compliment our Secondary System. By simply substituting a glazed panel with a flyscreen panel your system provides the optional potential of keeping your premises draught free in the winter months and insect free during the summer period.

ALUMINIUM SECONDARY GLAZING SYSTEM SPECIFICATION

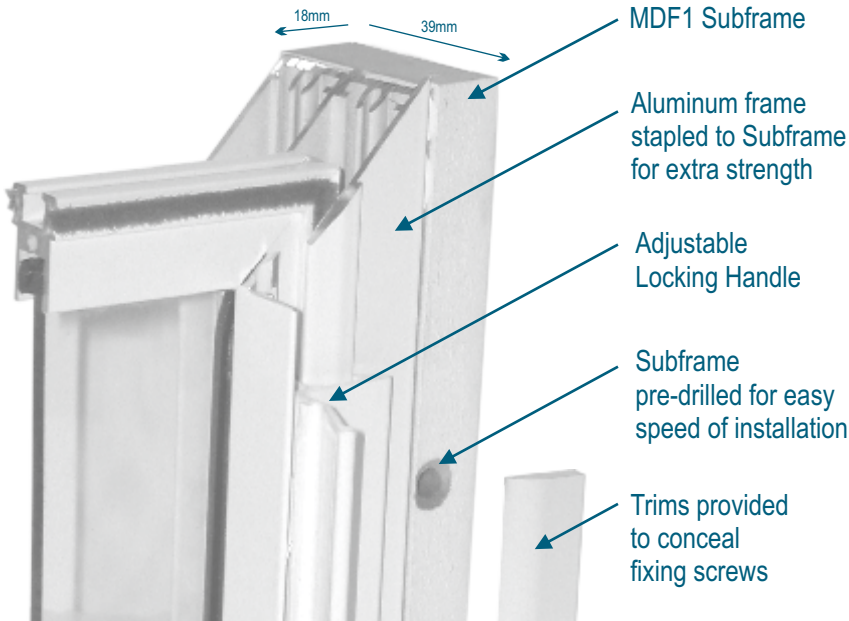
SECTIONS	Outer frames and insert panels are made from warp free rigid sections of extruded aluminium alloy 6063T6 B.S. 1474 (HE9TE)
FINISH	<p>Our standard finish is white semi-gloss polyester powder coated aluminium to B.S.6496.</p> <p>Silver Anodised, Brown and Ral colours are available at extra cost. MDF sub-frames are painted with two coats of epoxy paint.</p> <p>Brown polyester units are supplied with hardwood unpainted sub-frames and trims.</p>
WEATHERING	Moisture repellent, rot free silicone treated polypropylene pile strip is fitted to all insert panels, providing a draught free seal.
GLAZING	4mm or 6mm float glass is used in accordance with B.S.CP 152 and 4mm, 6mm toughened, and 6.4 laminated are used in accordance with B.S.6262. All glazing is carried out at the factory prior to despatch, each panel being bedded in Glazeptra synthetic rubber gaskets thus providing a cushioning effect also facilitating glass replacement in the event of accidental breakage.
OUTER FRAMES	The aluminium outer frame is stapled to a MDF sub-frame, either 39mm (MDF1) or 55mm (MDF3) which is grooved out to receive a serrated tongue, this gives additional outer frame strength. MDF1 (39mm) is fitted as standard but if reveal fixing or a deep surround is required to provide adequate clearance from the existing window fittings, MDF3 (55mm) is available at an additional cost.

We reserve the right to change specifications for our products in keeping with our policy of design and development.

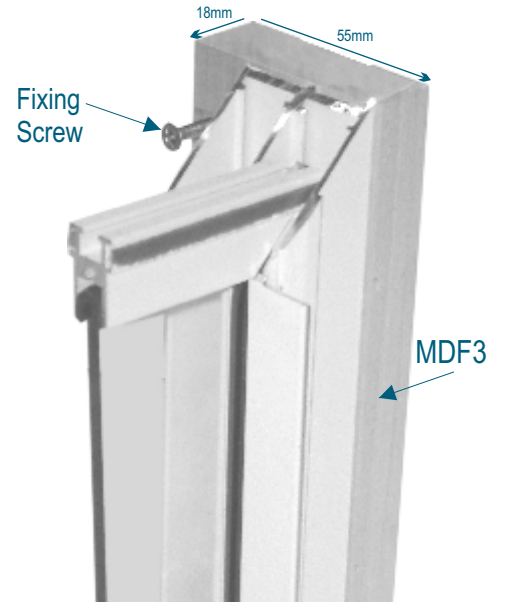
All dimensions are in millimetres.

SUBFRAME DETAILS

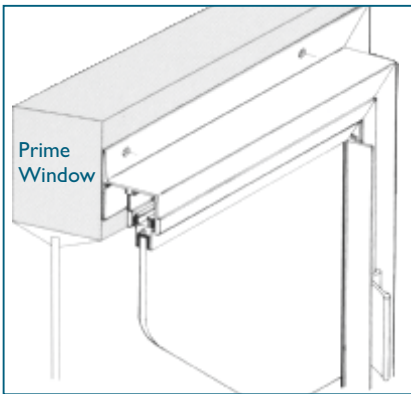
STANDARD FRAME



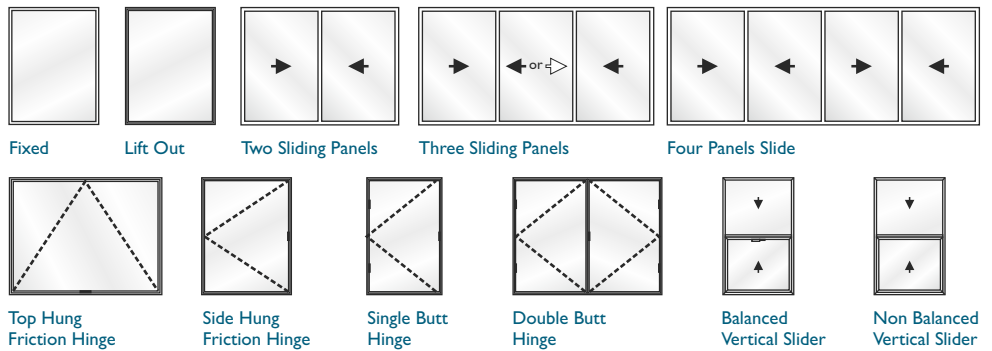
EXTENDED SUBFRAME FOR REVEAL FIXING



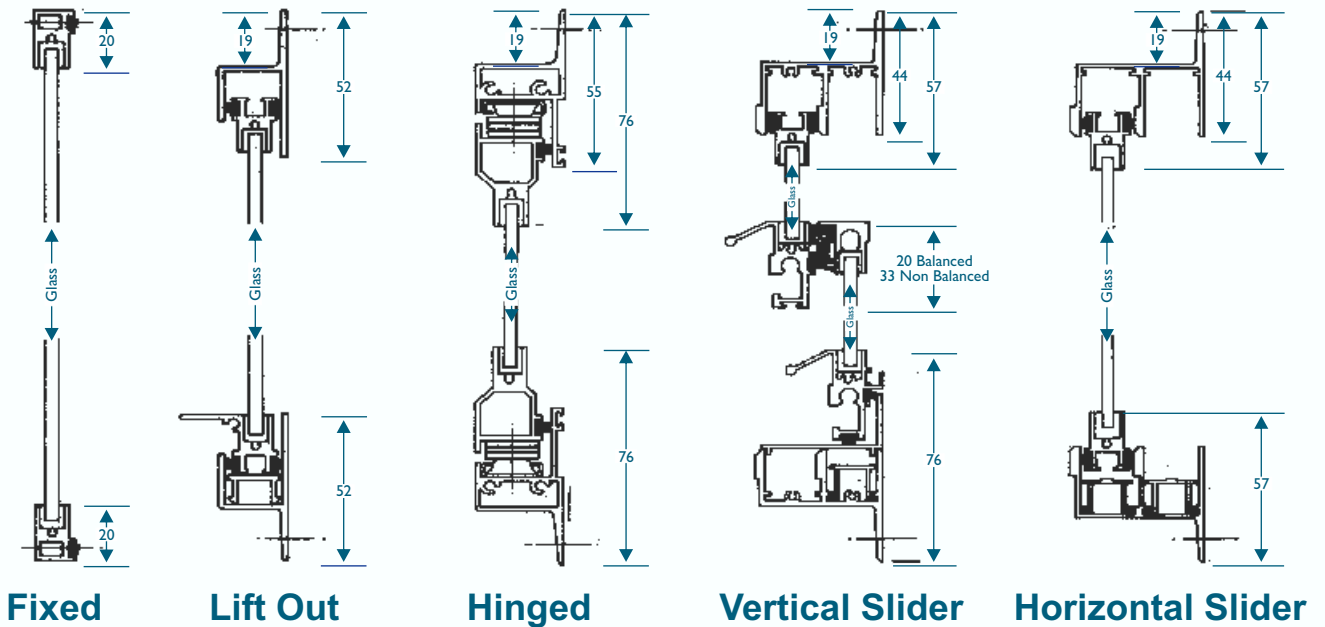
ECONOMY ODD LEG SECONDARY GLAZING



Available for:

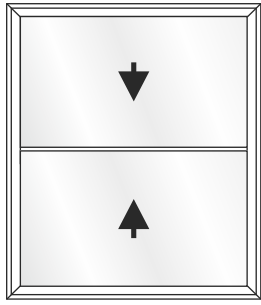


Vertically Viewed Cross Sections

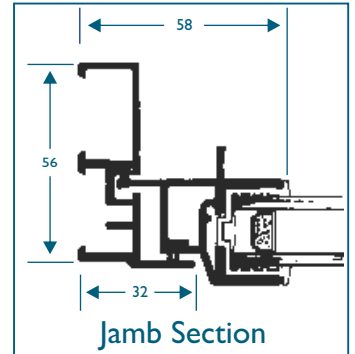
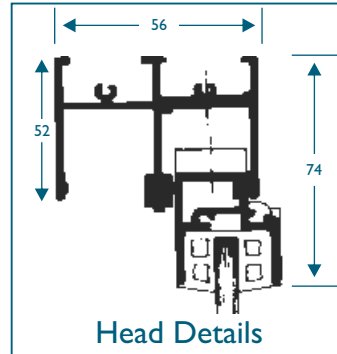
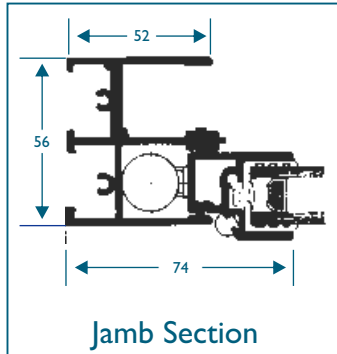
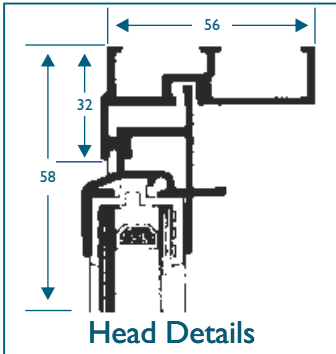
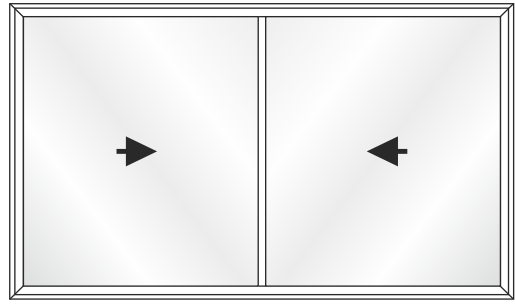


HEAVY DUTY SLIDING SECONDARY GLAZING

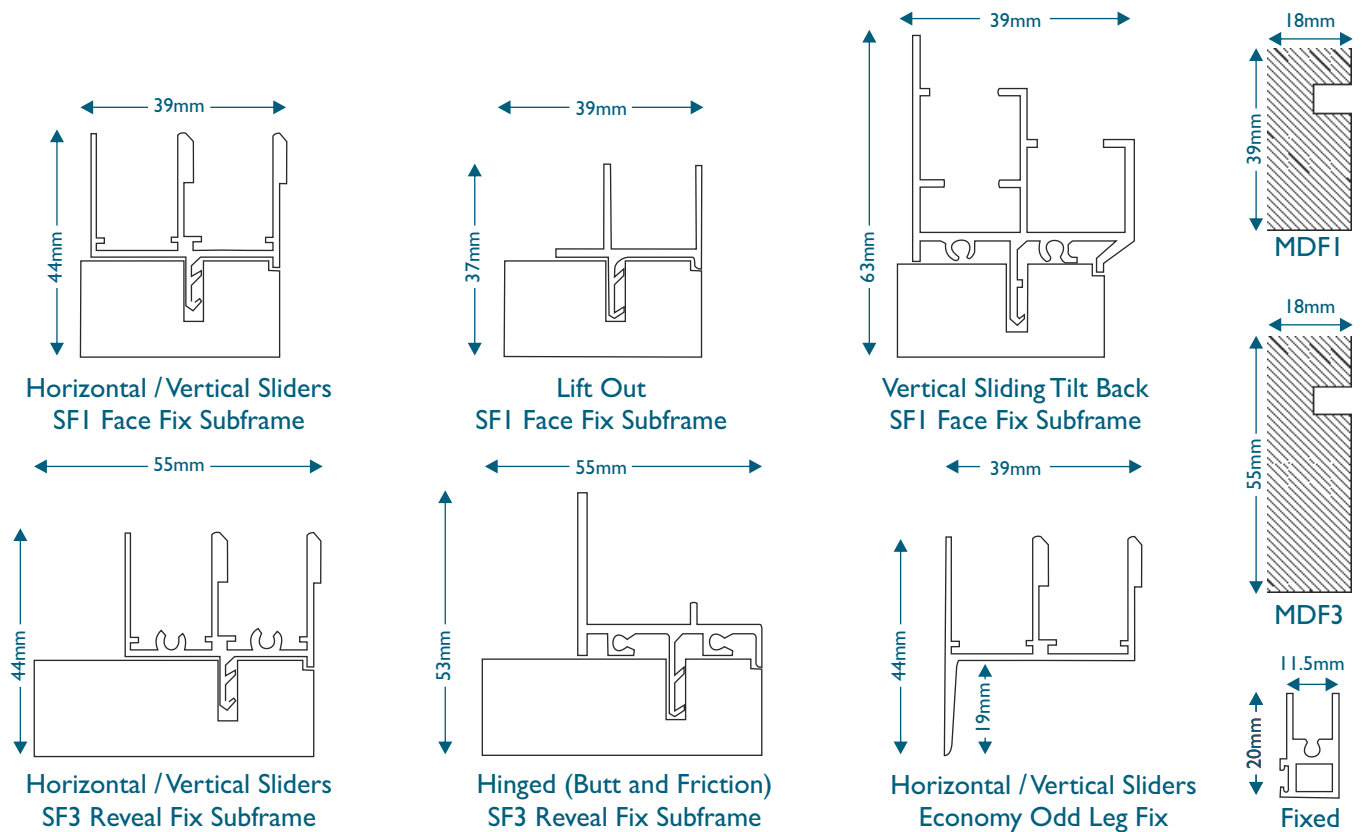
Vertical Sliders



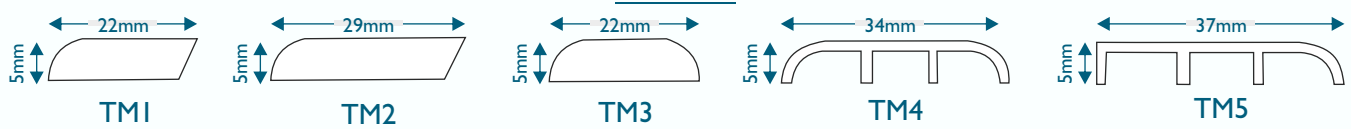
Horizontal Sliders



SECONDARY GLAZING SURVEY KIT CONTENTS

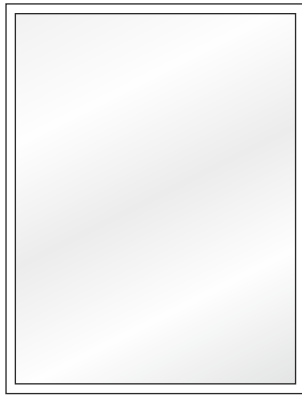


TRIMS



If you require a Survey Kit please phone 01268 681612

FIXED



Fixed

Fixed Insert Windows are manufactured as a single pane glazed panel only, for fixing direct to existing doors or windows with wood screws. They are not removable for general cleaning or for ventilation.

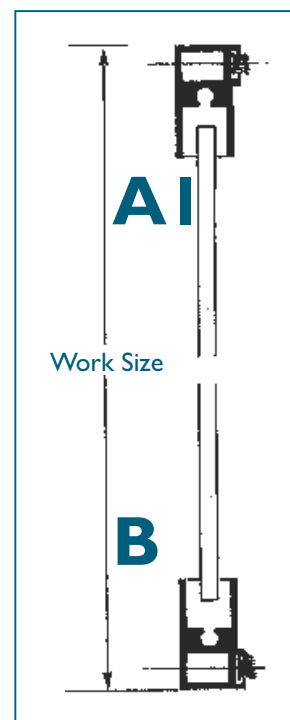
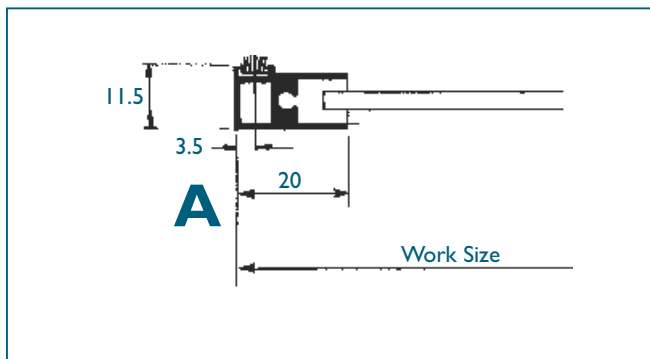
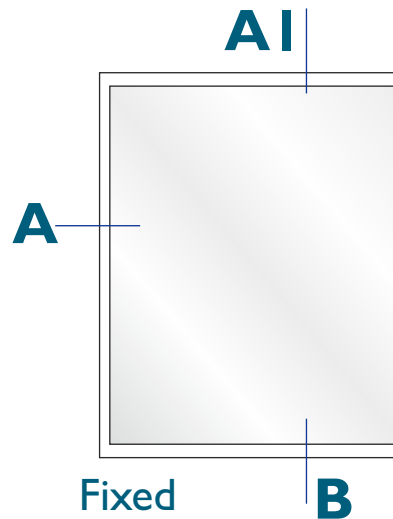
Fixed	Min Width - 300mm	Min Height - 300mm
	Max Width - 1200mm	Max Height - 1600mm

Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

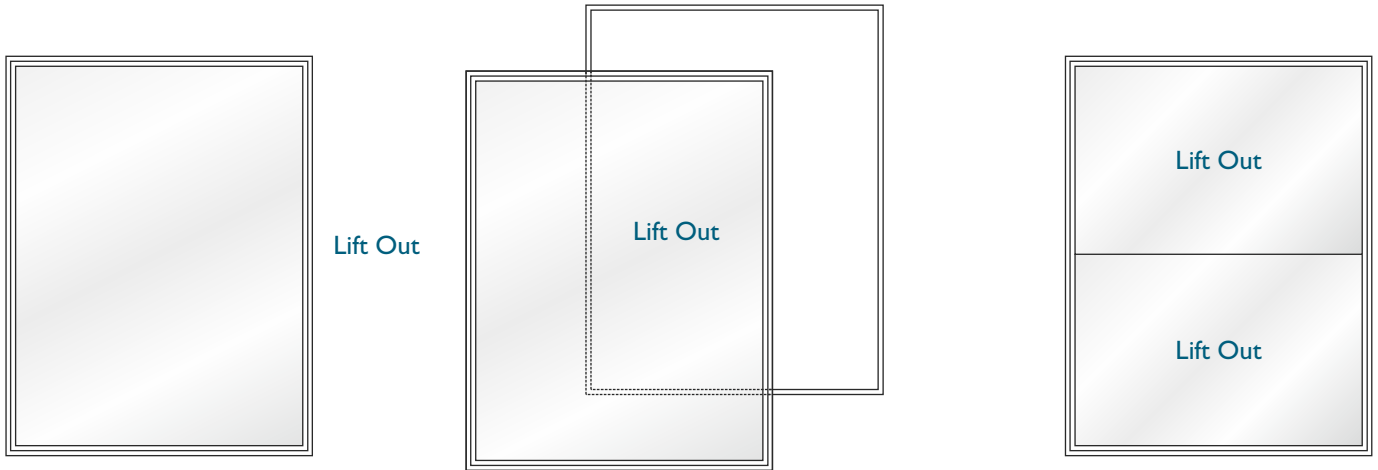
Horizontal & Vertical Sections

These Fixed Panels are an ideal product to use to display certificate or pictures, but also can be a perfect advertising board for posters, reception areas or office and overdoor leaves.

The frames have fixing holes, prepped and countersunk ready for fixing.



LIFT OUT UNITS



Lift Out Units are manufactured as framed single pane windows with a removable panel for cleaning: They are not suitable for ventilation. The removable panel incorporates a full length finger rail at the bottom to assist in lifting the panel out. Panels over 1400mm in height are fitted with retaining clips to prevent the panel from bowing.

Lift Out

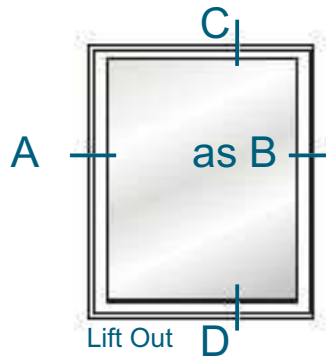
Min Width - 300mm
Max Width - 1200mm

Min Height - 400mm
Max Height - 1600mm

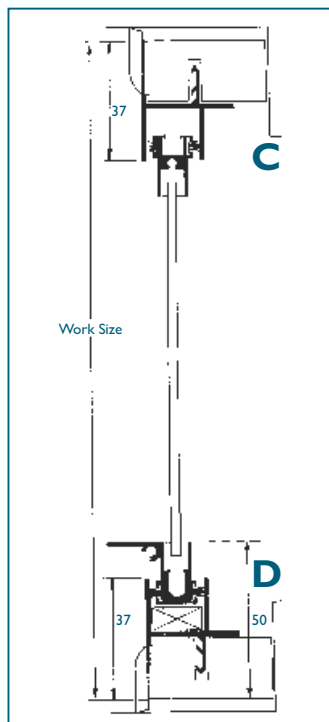
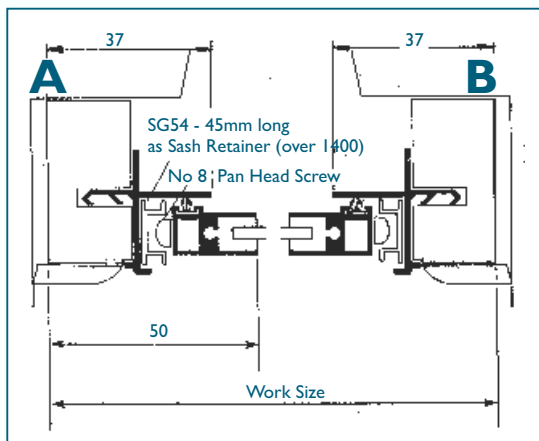
Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

Horizontal & Vertical Sections

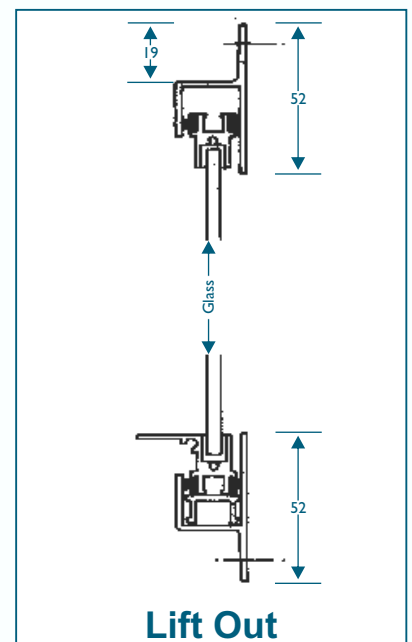
Typical Elevations



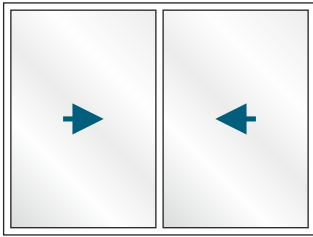
Sub Frame Fix



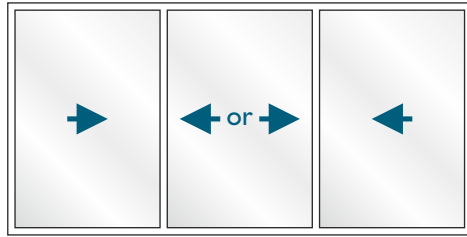
Odd Leg



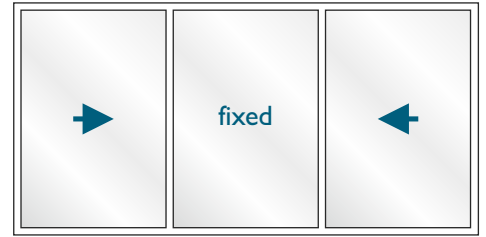
HORIZONTAL SLIDERS



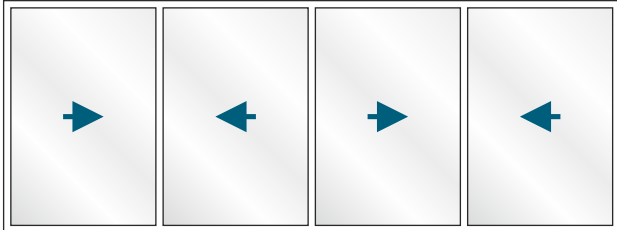
Both Panels Slide



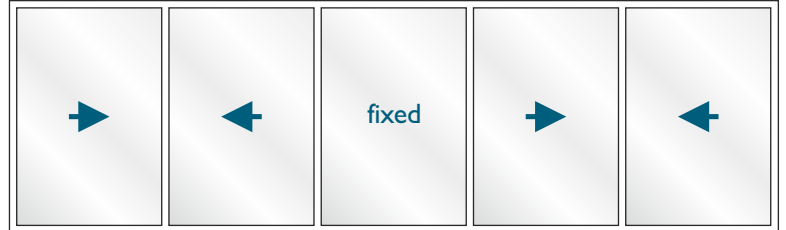
Three Sliding Panels



Centre Panel Fixed



Four Panels Slide



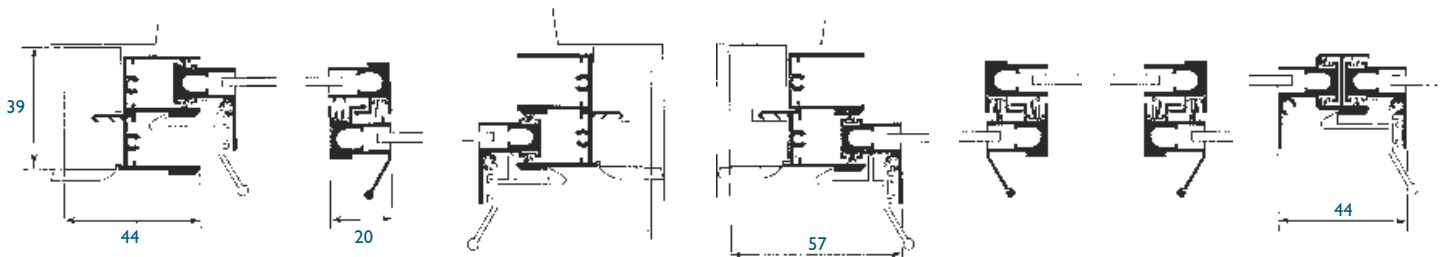
Centre Panel Fixed - Four Panels Slide

2 Panel	Min Width - 400mm	Min Height - 400mm
	Max Width - 2450mm	Max Height - 1650mm

3 Panel	Min Width - 600mm	Min Height - 400mm
	Max Width - 3650mm	Max Height - 1650mm

4 Panel	Min Width - 800mm	Min Height - 400mm
	Max Width - 4750mm	Max Height - 1650mm

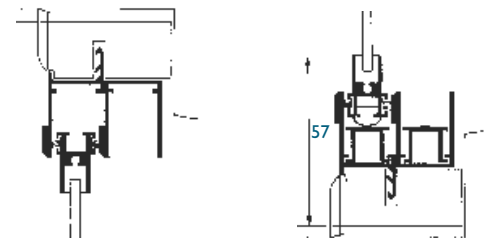
Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.



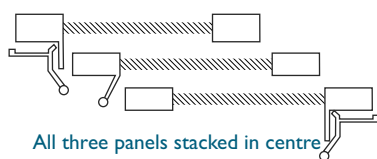
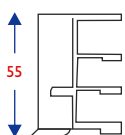
All windows available in 2,3,4 or 5 panel configurations, sliding on twin track system with nylon skids and fitted with spring loaded aluminium catches engaging on the inside only (for security) of the outer frame jambs.

All sliding panels interlock at meeting styles thus providing a draught proof seal. Either wheels or self-lubricating nylon 'skids' are morticed into the sill section of each panel allowing easy movement for ventilation.

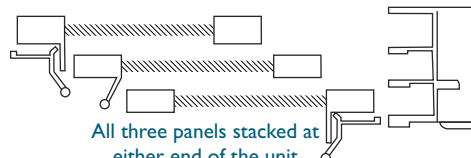
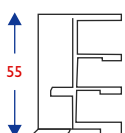
Larger panels may be fitted with rollers at no extra cost on request.



3 TRACK HORIZONTAL SLIDERS



All three panels stacked in centre of Horizontal Slider

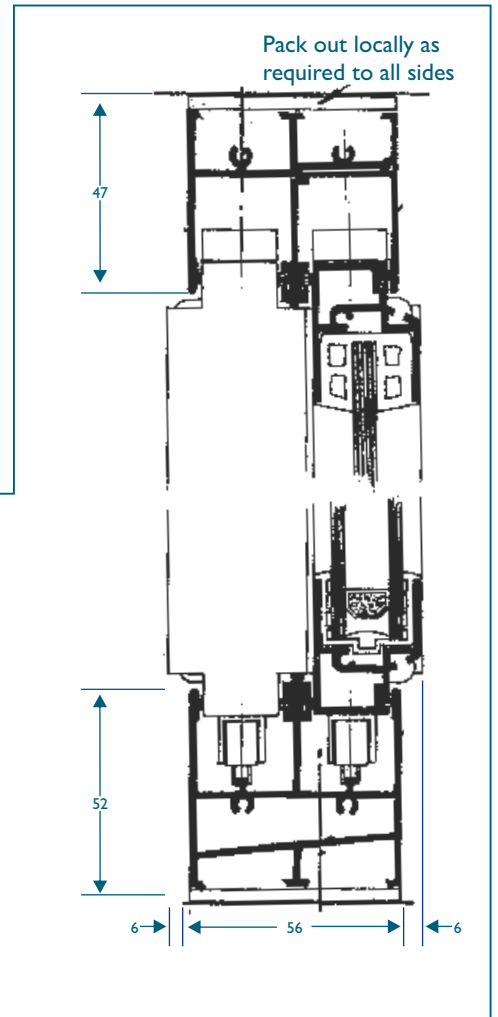
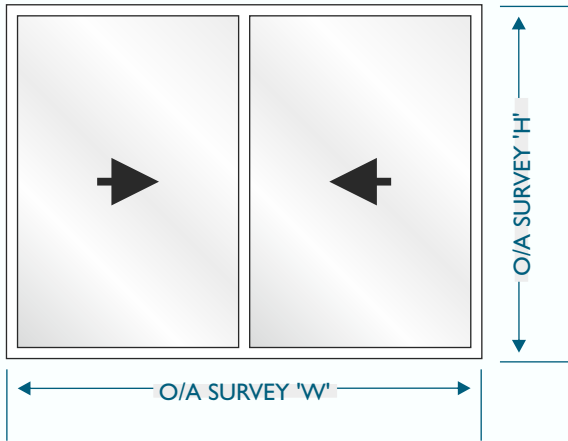


All three panels stacked at either end of the unit

Suitable for installations where prime windows creates a problem.

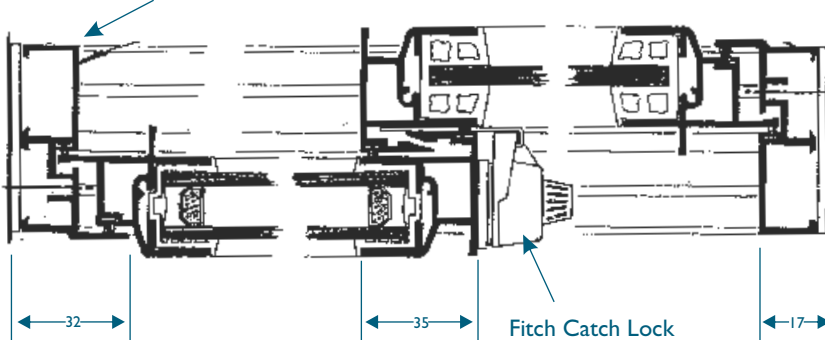
This unique 3 panel Horizontal Slider has been designed to cope with some of the more modern or unusual prime window designs - where other units may prevent satisfactory access to the prime window.

HEAVY DUTY HORIZONTAL SLIDERS



Note: on 3 and 4 panel units jamba to be assembled as per the appropriate drawing

PRIME WINDOW SIDE



Heavy Duty secondary glazing has a more robust frame and also has the option of either single glazing or accepting double glazed sealed units. This system can only have a reveal fix frame option because of the size of profile and design.

Available as horizontal or vertical sliding, this system has been tried and tested over many years and is still one of our best.

Note: Due to the nature of this product panels are not able to be lifted out for cleaning.

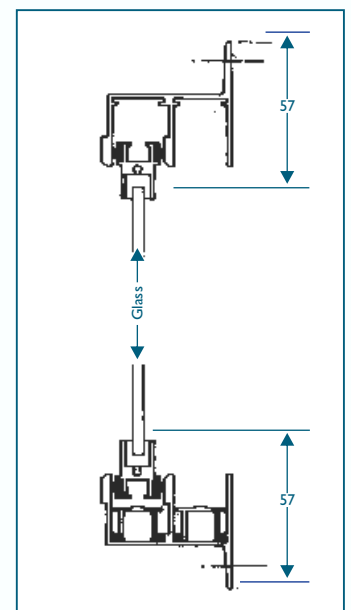
2 Panel	Min Width - 800mm Max Width - 3000mm	Min Height - 400mm Max Height - 2400mm
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3 Panel	Min Width - 1200mm Max Width - 4500mm	Min Height - 400mm Max Height - 2400mm
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4 Panel	Min Width - 1600mm Max Width - 5000mm	Min Height - 400mm Max Height - 2400mm
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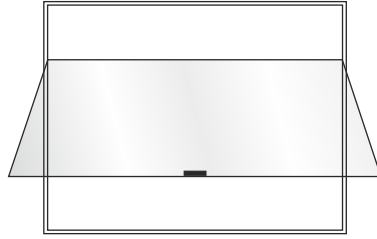
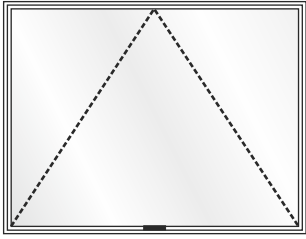
Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

Odd Leg



HINGED UNITS

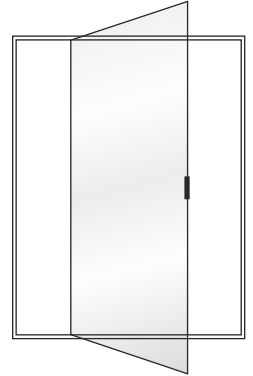
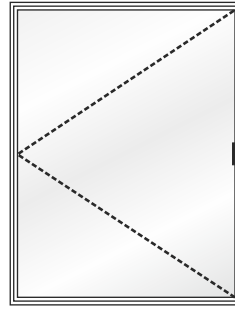
Friction Hinges



Top Hung (Friction Hinges)

To Approx 65°

Top Hung	Min Width - 350mm Max Width - 1250mm	Min Height - 400mm Max Height - 1000mm
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Side Hung (Friction Hinges)

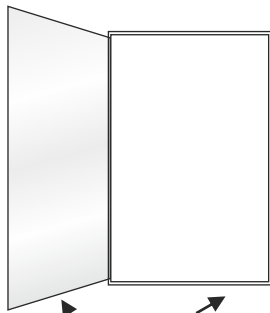
To Approx 65°

Side Hung	Min Width - 300mm Max Width - 650mm	Min Height - 400mm Max Height - 1250mm
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Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

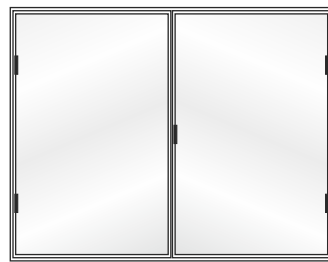
Single pane top hung or side hung (left or right) units are manufactured with Stainless Steel Friction Hinges to hold the casement to the desired position and fitted with white painted Fitch Catch.

Butt Hinges

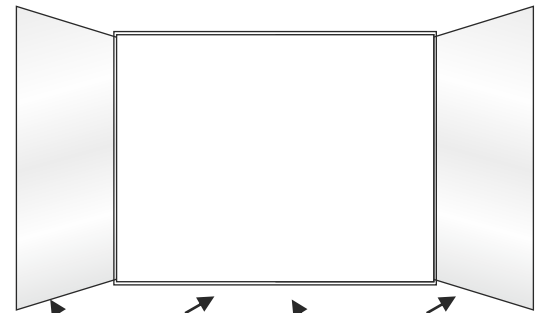


Single Butt Hinge

To Approx 170°



Double Butt Hinge



To Approx 170°

To Approx 170°

Single Butt Hinge	Min Width - 300mm Max Width - 900mm	Min Height - 400mm Max Height - 2100mm
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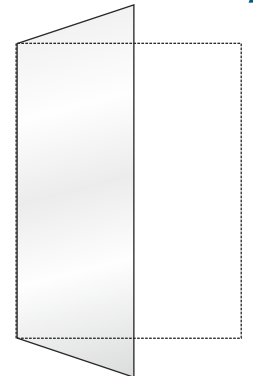
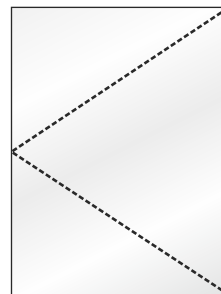
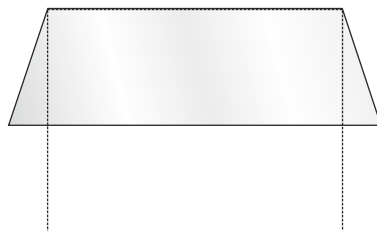
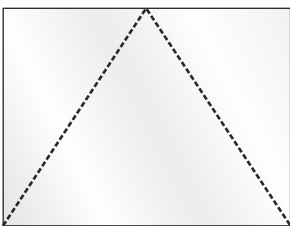
Double Butt Hinge	Min Width - 700mm Max Width - 1800mm	Min Height - 400mm Max Height - 2100mm
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Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

Butt Hinged Units are manufactured as side hung and can be either single or double pane. Heavy Duty Butt hinges are fitted to the casement enabling far greater access.

The single pane unit is fitted with a white painted Fitch Catch whilst the double unit is fitted with one or more Fitch Catches and has two concealed shoot bolts on the slave panel to lock it in a closed position.

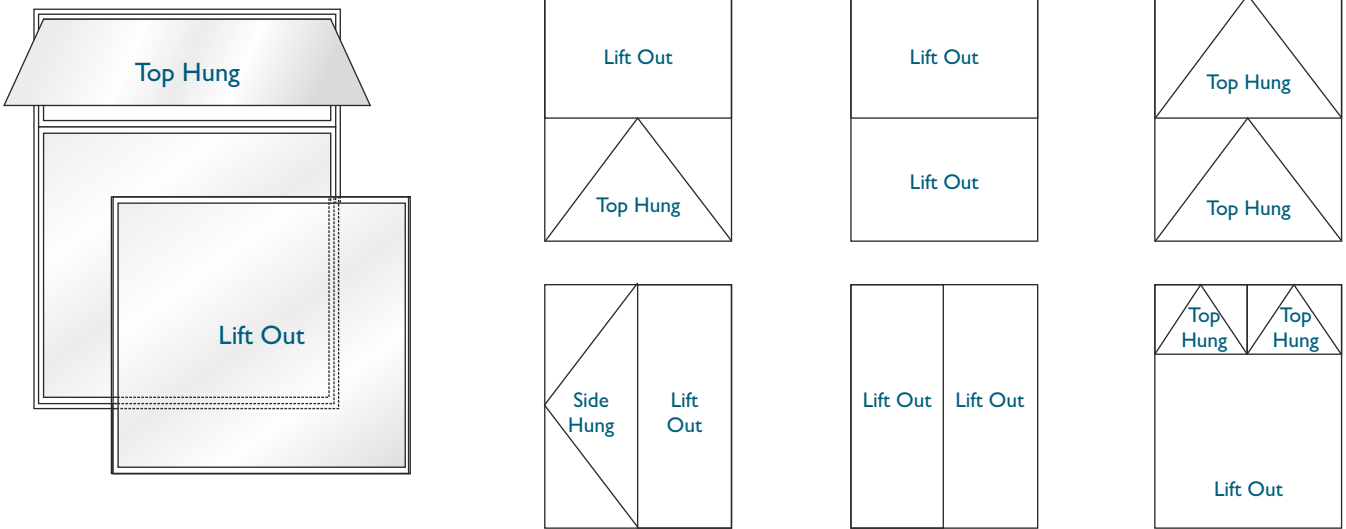
Medium Duty Hinged Panels Only (No Sub-Frame)



No Subframe	Min Width - 300mm Max Width - 1250mm	Min Height - 400mm Max Height - 1250mm
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These units consist of the PANEL ONLY i.e. no frame - and are supplied with medium duty plastic butt hinges and magnetic catch.

TOP HUNG WITH LIFT OUT

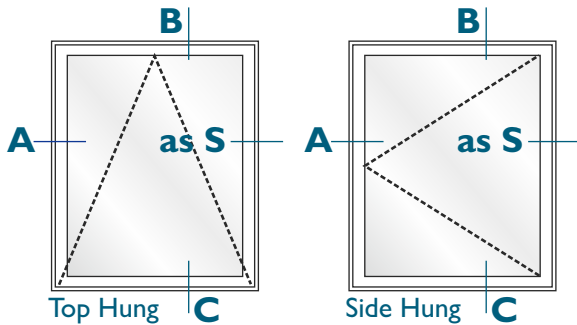


These units are supplied in one outer frame which is divided by a slimline transom/mullion for aesthetic appeal and for prime window sightline alignment

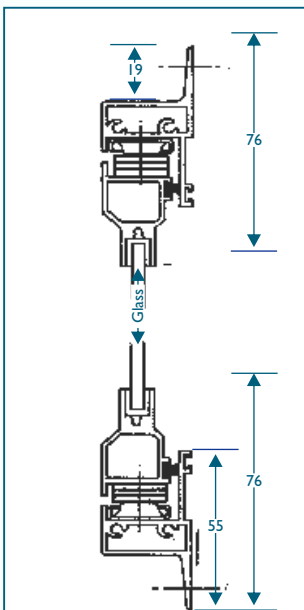
HINGED UNITS

Example Side or Top Hung Secondary Sash Window

Typical Elevations

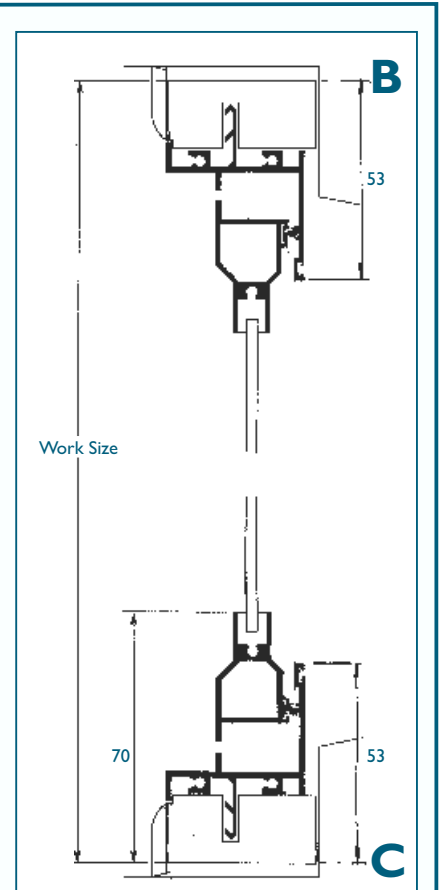
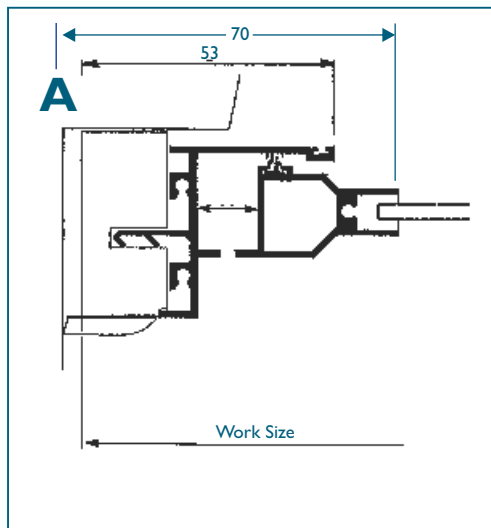


Odd Leg



Hinged

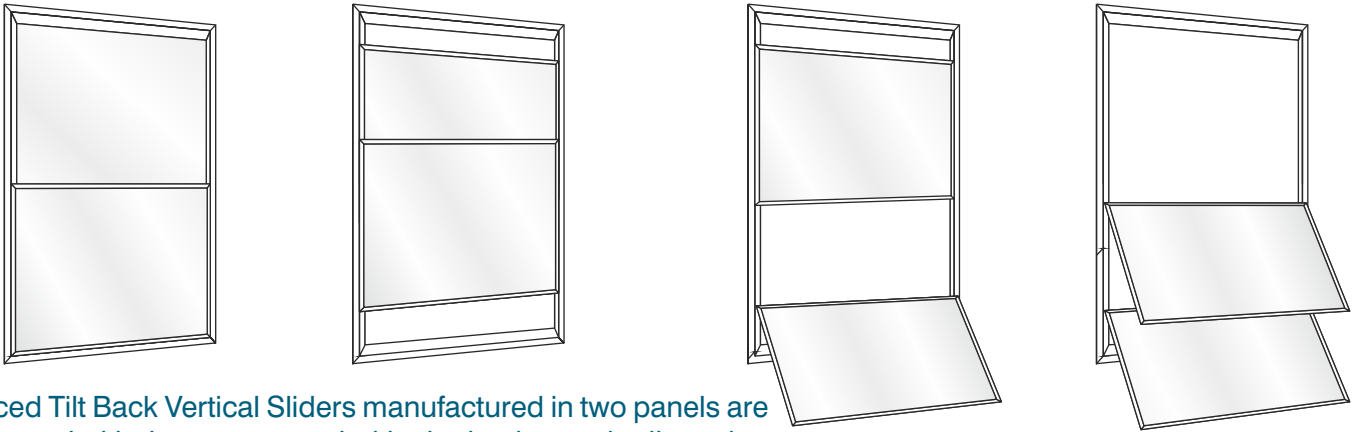
Horizontal & Vertical Sections



Note:- Fit one fitch catch to side hung units centrally on units up to 1300mm High. For units over 1300mm High fit two fitch catches at 1/4 - 1/2 - 1/4 spacing.

VERTICAL SLIDERS

Balanced TILT-BACK Vertical Sliders



Balanced Tilt Back Vertical Sliders manufactured in two panels are hung on spiral balances concealed in the jambs, and adjusted to suit the weight of the panel in any open position. Both panels are held closed with a Fitch Fastener positioned in the centre of the transom bar. The head of each panel has a spring loaded catch in the corner, enabling each panel to tilt back individually primarily for ease of cleaning and access to prime window for decorating - But also for a speedier exit in the event of a fire etc.

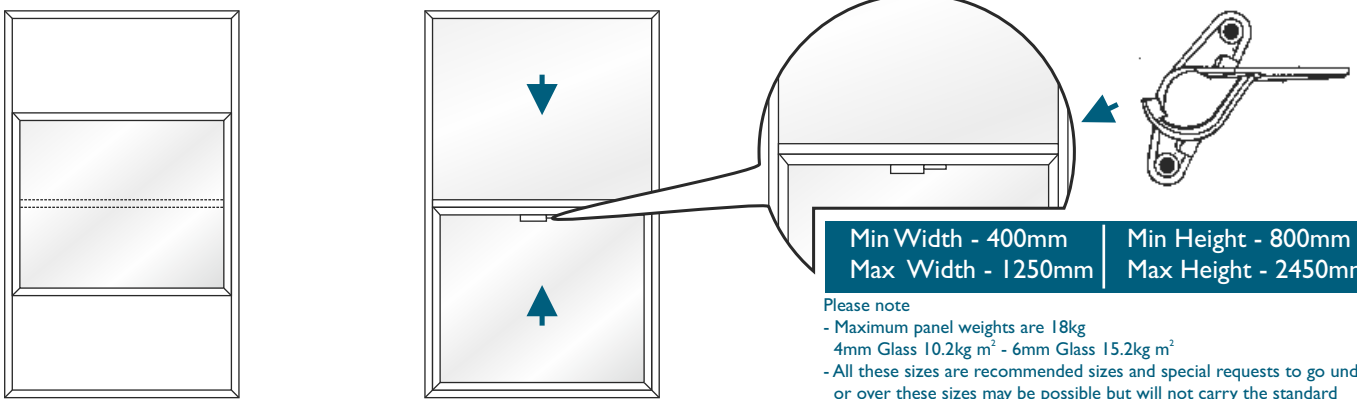
Min Width - 400mm
Max Width - 1250mm

Min Height - 800mm
Max Height - 2450mm

Please note

- Balanced Tilt Back is not available in Odd Leg Systems
- Maximum panel weights are 18kg
4mm Glass 10.2kg m² - 6mm Glass 15.2kg m²
- All these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

MK1 Balanced Vertical Sliders



Min Width - 400mm
Max Width - 1250mm

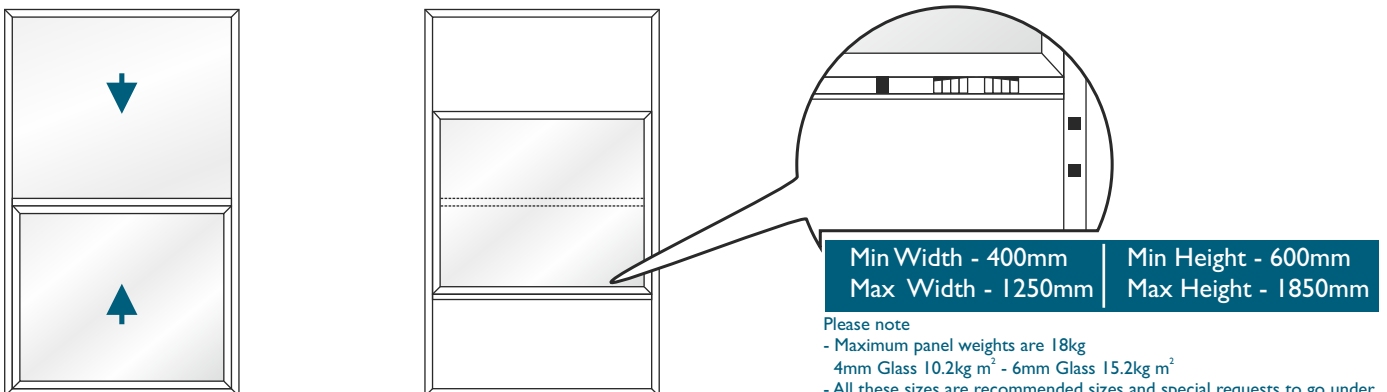
Min Height - 800mm
Max Height - 2450mm

Please note

- Maximum panel weights are 18kg
4mm Glass 10.2kg m² - 6mm Glass 15.2kg m²
- All these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

Balanced Vertical Sliders manufactured in two panels are hung on spiral spring balances concealed in the jambs and adjusted to suit the weight of the panel in any open position. Both panels are held closed with a Fitch Catch fastener positioned in the centre of the transom bar. The panels cannot be removed for cleaning. (Do not tilt)

Non-Balanced Vertical Sliders



Min Width - 400mm
Max Width - 1250mm

Min Height - 600mm
Max Height - 1850mm

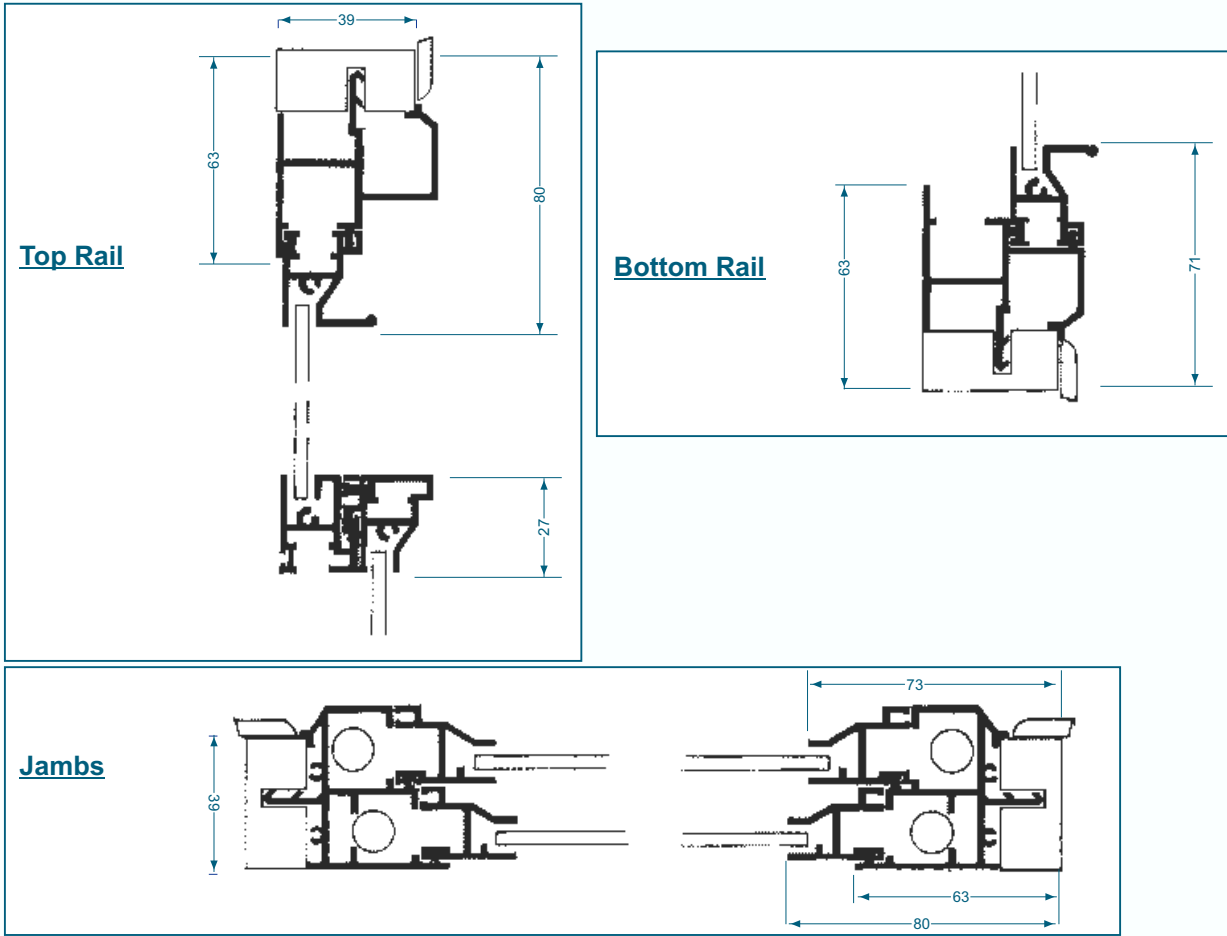
Please note

- Maximum panel weights are 18kg
4mm Glass 10.2kg m² - 6mm Glass 15.2kg m²
- All these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

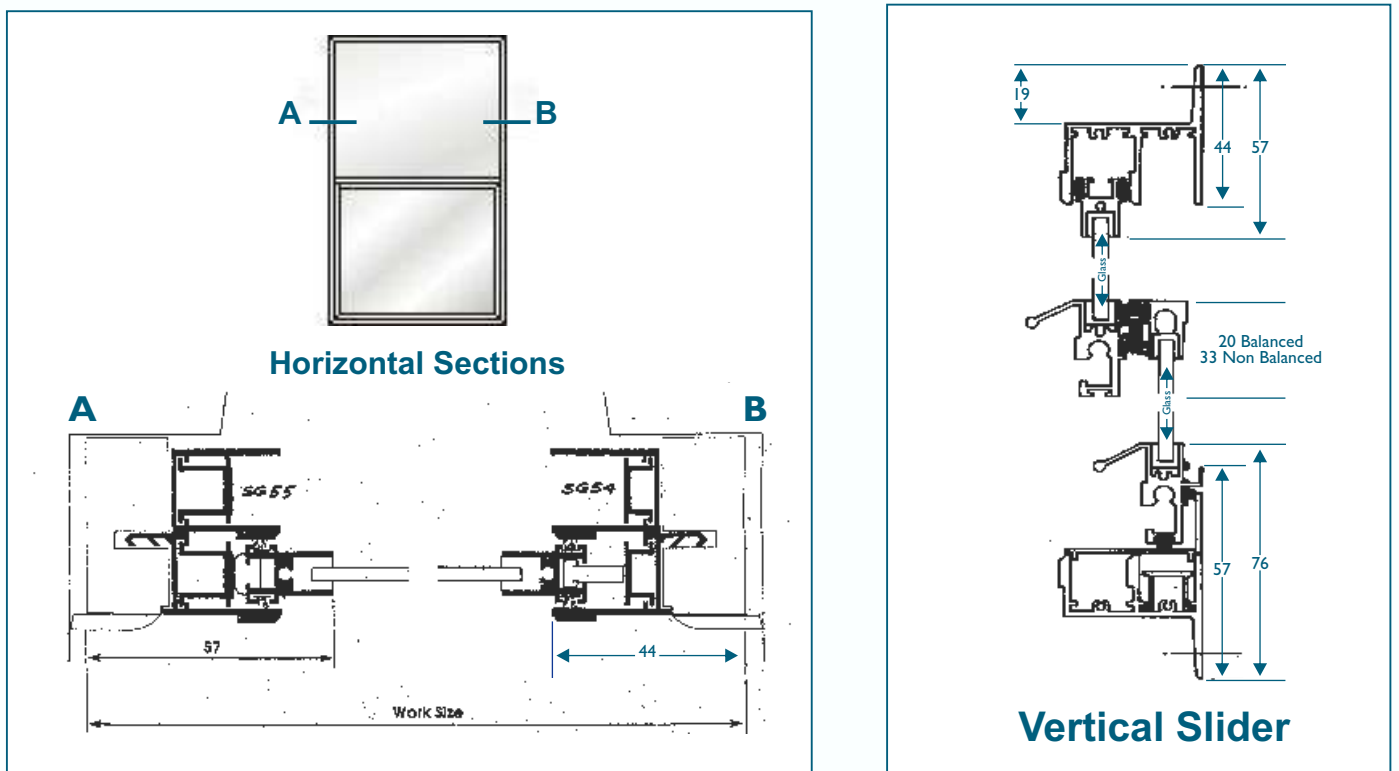
Non-Balanced Vertical Sliders in two panels, THE OPERATOR MUST SUPPORT THE WEIGHT OF THE PANEL WHEN SLIDING. The panels are held with spring loaded nylon bolts which locate in stop positions in the jamb to hold the panel closed or in the desired open position for ventilation. The panels can be removed for easy cleaning.

VERTICAL SLIDERS

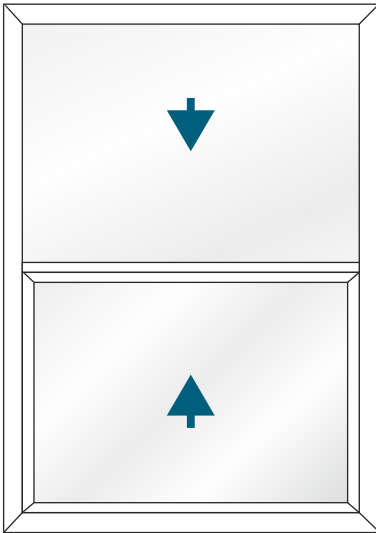
Example Vertical Sliders Secondary Sash Window Balanced Tilt Back



Example Vertical Sliders Secondary Sash Window Un Balanced Odd Leg



HEAVY DUTY VERTICAL SLIDING SECONDARY

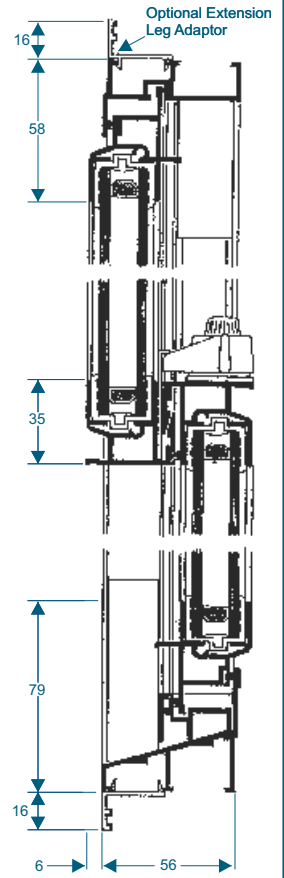


Min Width - 400mm | Min Height - 900mm
 Max Width - 1500mm | Max Height - 2800mm

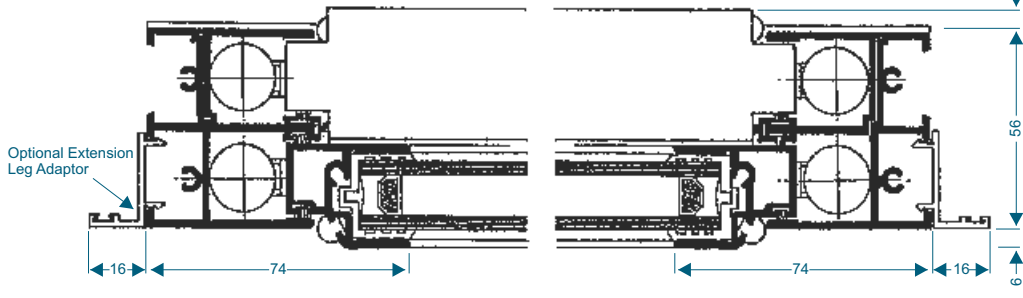
Please note

- Maximum panel weights are 50kg
 4mm Glass 10.2kg m² - 6mm Glass 15.2kg m²
- All these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

Vertical Section



Horizontal Section



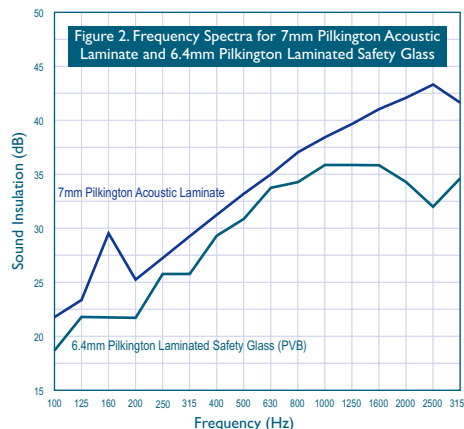
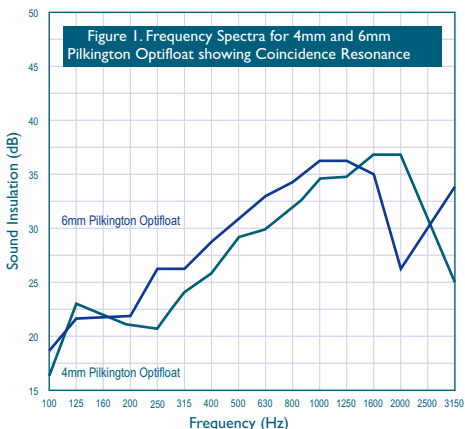
SOUND INSULATION

Lining the reveals with acoustic absorbent material (fibreboard) is beneficial because it can reduce reverberation in the cavity, giving an overall improvement of 2-6 dB, according to its area and absorption characteristics.

Increasing the width of cavity produces an increase of sound insulation, but not pro rata. Beyond a spacing of about 200mm it is normally uneconomical to install such windows because the incremental acoustic improvement is small.

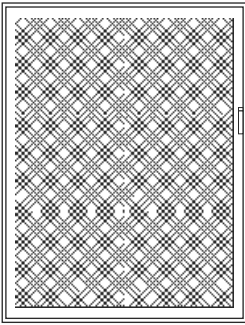
Table 1
Sound Insulation Data for Single Glazing

Thirdoctaveband Centre Frequency (Hz)	Sound Insulation (dB) for Glass Thickness (mm)			
	4	6	6.4 PVB	Pilkington Acoustic Laminate 7
100	17	18	18	23
125	23	20	22	20
160	22	22	22	25
200	21	22	22	24
250	21	22	26	24
315	24	26	26	28
400	26	29	29	30
500	29	28	31	31
630	30	33	33	34
800	32	34	34	36
1000	34	36	35	36
1250	34	33	36	36
1600	36	32	36	39
2000	36	34	26	29
2500	31	30	31	31
3150	25	34	35	39
4000	31	28	37	36
R _w (dB)	27	29	30	32
R _c (dB)	30	32	33	36
R _{TRk} (dBA)	27	28	29	31



FLY SCREENS WINDOWS

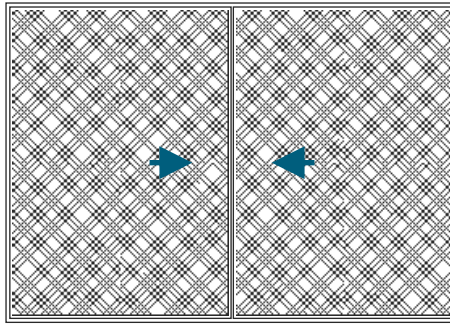
650



1200

Hinged (with Subframe)

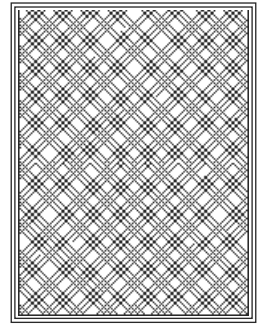
1300



1200

Horizontal Slider

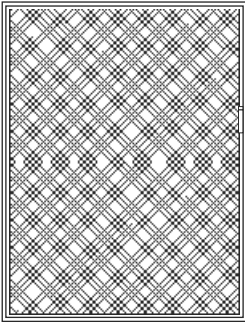
650



1200

Lift Out

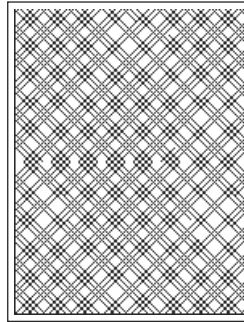
650



1200

Hinged Panel (no Subframe)

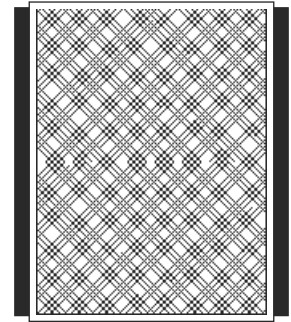
650



1200

Fixed Panel (No Subframe)

650



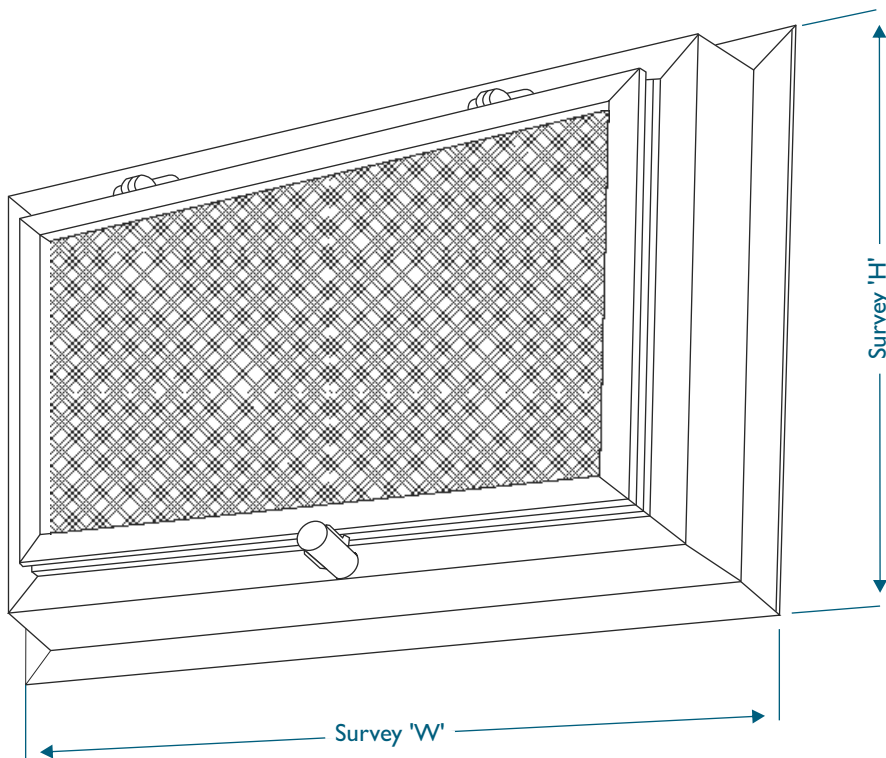
1200

Insert Panel
(in place of Glazed Panel)

Manufactured from the same high quality materials as the glazed units these fine meshed panels allow windows to be opened without the fear of being invaded by flying insects.

Maximum recommended sizes shown.

Conservatory Fly Screen Cover



Note: Maximum handle clearance is 40mm from the inside face of the frame

SECONDARY ORDER CHECKLIST

SYSTEMS

Fixed



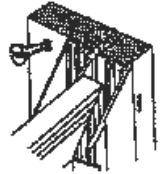
(20 x 12 Face Fix Panel Only)

Subframe Fix



Face Fix MDFI/TMI

Subframe Fix



Reveal Fix MDF3/TMI

SUBFRAME MATERIALS

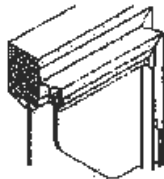
White painted MDF

White painted tulip (Hardwood)

Unpainted tulip (Hardwood)

Luan (Hardwood)

Economy Flange
(Note Balanced
V/S DO NOT Tilt)



Face Fix Through Flange

Heavy Duty

Single Glazed

Double Glazed



Due to the nature of this product these panels are not able to be lifted out.
Reveal Fix (All Ali Frame)

COLOUR

White

Brown

Silver

Special RAL
.....

SPECIAL INSTRUCTIONS