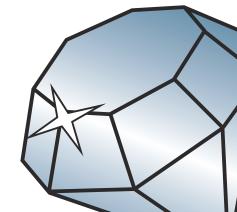
# **Secondary Glazing**

Section Identification Guide







Intentionally Left Blank For Notes	

# **Contents**

Introduction	4
Systems	5
Horizontal sliders	6
Economy Sections	7
Luxury Subframe Sections	8
Slim Line Equal Leg	9
Vertical Sliders	10
Tilt-Back	11
Balanced	12
Non-Balanced	13
Heavy Duty & Sections	14
Friction Hinged & Sections	15
Butt Hinged & Sections	16
Medium Duty Hinged	17
Combination Units	17
Lift Outs & Sections	18
Fixed	19
Trickle Vents	20
Sound Insulation	21
Fly Screens	22
Fly Screen Doors	23
Trims	23

We reserve the right to make changes to the product specification as technical developments dictate, and without prior notice. Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

# Introduction

### **Specialists Since 1985**

Our Secondary Glazing System is designed and manufactured to the highest specification. It is used throughout the United Kingdom to reduce noise levels, exclude draughts and minimise heat loss. While being practical it is also one of the most aesthetically pleasing secondary glazing systems, with slim and discrete features to minimise its impact on your interior. The units are all available in a variety of colours should you wish to colour coordinate with your existing windows and interior decor.

A unique flyscreen has been designed to compliment our Secondary Glazing system. This provides much needed ventilation during the summer months and helps to stop unwanted insects from coming into your home environment. With the addition of this flyscreen our Secondary Glazing system covers all your needs from reducing heat loss and draughts in the winter, reducing noise all year round and keeping your home insect free during summer months.

### **System Specification**

SECTIONS Outer frames and insert panels are made from warp free rigid sections of extruded

aluminium alloy 6063 T6 B.S. 1474 (HE9TE).

FINISH Our standard finish is white semi-gloss polyester powder coated aluminium to B.S. 6496.

Silver Anodised, Brown and RAL colours are available at extra cost.

Most wooden sub-frames are pre-primed in white.

Brown units are supplied with hardwood unpainted sub-frames and trims.

WEATHERING Moisture repellant, 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, 6.4mm 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 Glazepta

synthetic rubber gaskets thus providing a cushioning effect.

SUBFRAMES The aluminium outer frame can be stapled to a wooden sub-frame, either 39mm (SF1),

55mm (SF3) or 69mm (SF4), which is grooved out to receive a serrated tongue, this gives additional outer frame strength. SF1 (39mm) is fitted as standard but if reveal fixing or a deep surround is required to provide adequate clearance from the existing

window fittings, SF3 (55mm) or SF4 (69mm) is available at an additional cost.

TRIMS Trims can be provided in a variety of sizes/styles. They come in four finishes including

oak, tulip, primed tulip or white PVC.

We reserve the right to make changes to the product specification as technical developments dictate, and without prior notice.

Pictures shown are for illustrative purposes and are not binding in detail, colour or specification.

# **Secondary Systems**

Our secondary glazing is available in four main systems; Economy Odd Leg, Slim-Line Equal Leg, Subframe and Heavy Duty. Each system is available in a range of different styles as listed below.

### **Economy Odd Leg**

Our Economy Odd Leg system is a very cost effective aluminium secondary glazing system. It is easy to fit, with pre-drilled fixing holes. Simply face fix your secondary glazing onto the existing windows.

#### Available Styles:

- Fixed
- Two Track Horizontal Slider
- Balanced Vertical Slider (No tilt facility)
- Non-Balanced Vertical Slider (No tilt facility)
- Butt & Friction Hinged
- Lift Out



Face Fix

### Slim-Line Equal Leg

Our Slim-Line secondary offers the slimmest sight-lines out of our four systems. The system is all aluminium and can be face or reveal fixed.

### Available Styles:

- Two Track Horizontal Slider
- Tilt Back Balanced Vertical Slider
- Balanced Vertical Slider (No tilt facility)
- Non-Balanced Vertical Slider (No tilt facility)
- Lift Out



Face Fix



Reveal Fix

### **Luxury Subframe**

Our Luxury Subframe system has an additional wooden frame that wraps around the aluminium frame. The subframes come in a choice of wood types and depths for face fixing or reveal fixing. Trims are available to give a neat clean finish.

#### Available Styles:

- Two & Three Track Horizontal Sliders
- Tilt Back Balanced Vertical Slider
- Balanced Vertical Slider (No tilt facility)
- Non-Balanced Vertical Slider (No tilt facility)
- Butt & Friction Hinged
- Lift Out





Face Fix

Reveal Fix

### **Heavy Duty**

Our Heavy Duty system is stronger and more robust than our other secondary glazing systems. The thicker frames enable it to take double glazed sealed units and achieve larger maximum sizes.

#### Available Styles:

- Two Track Horizontal Slider
- Balanced Vertical Slider (No tilt facility)



Reveal Fix

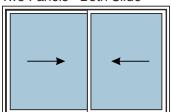
# **Horizontal Sliders**

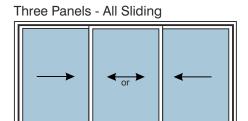
### **Designs and Sizes**

Horizontal Sliding secondary windows are available in 2,3,4 or 5 panel configurations, sliding on a track system with nylon skids and fitted with spring loaded aluminium catches engaging on the inside of the outer frame jambs for improved security. All sliding panels interlock at meeting styles thus providing a draught proof seal.

### **Two Track Designs**

Two Panels - Both Slide

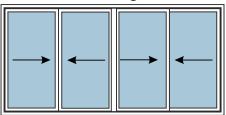




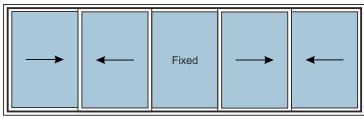
Three Panels: Centre Fixed

Fixed

Four Panels: All Sliding



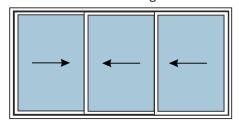
Five Panels: Centre Fixed - Four Panels Slide\*



<sup>\*</sup> Configuration only applies to Economy, Slim-Line and Luxury Subframe

### **Three Track Designs**

Three Panels - All Sliding



This three track, three panel horizontal slider gives maximum ventilation and access to the prime windows.

### **Recommended Sizes**

These measurements are representative of our Economy, Slim-Line and Luxury Subframe Systems.

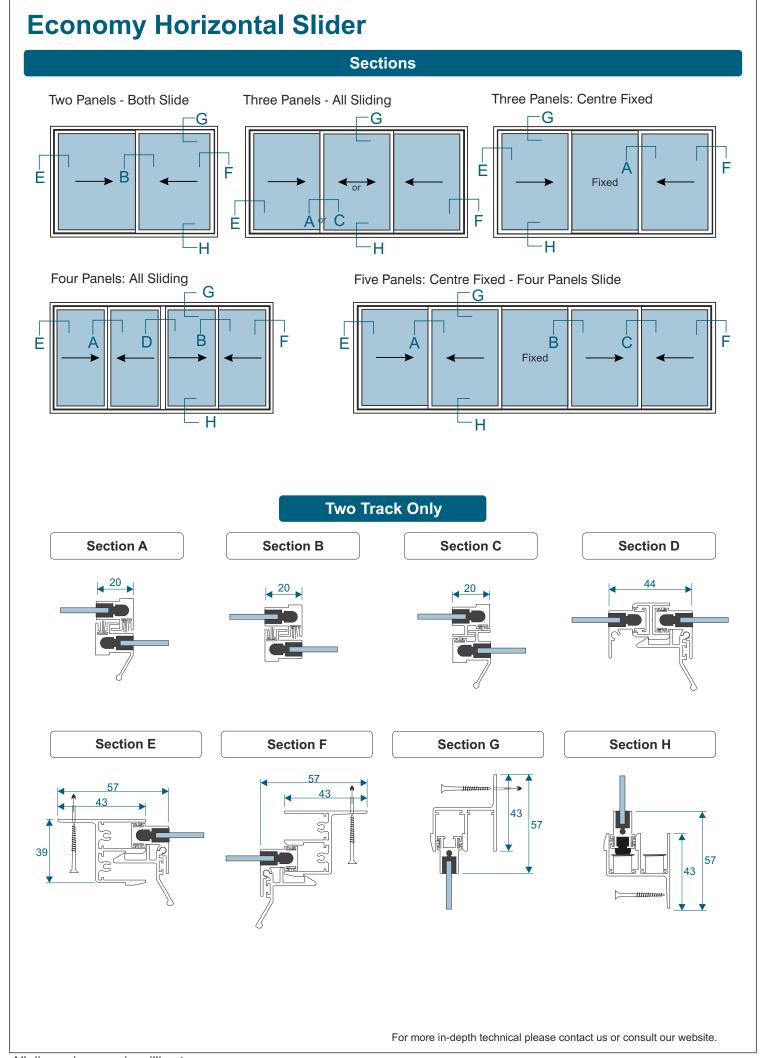
2 Panel	
Min Width	400 mm
Max Width	2500 mm
Min Height	400 mm
······································	
Max Height	1980 mm

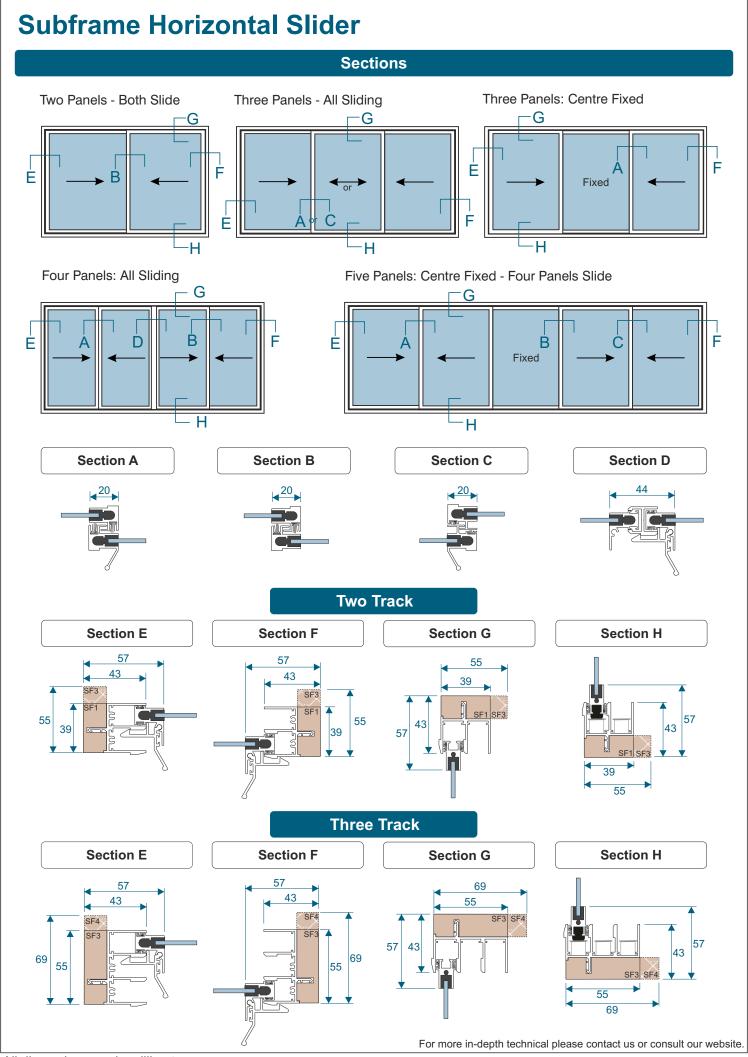
3 Panel	
Min Width	600 mm
Max Width	3750 mm
Min Height	400 mm
Max Height	1980 mm

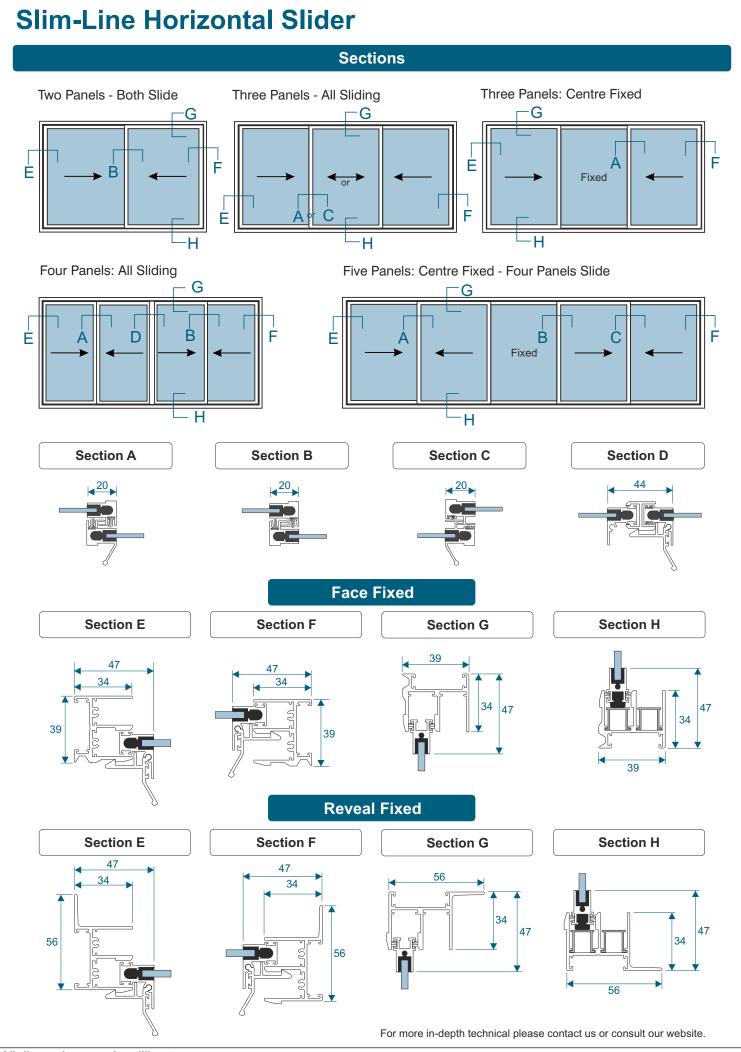
4 Panel	
Min Width	800 mm
Max Width	4900 mm
Min Height	400 mm
Max Height	1980 mm

5 Panel	
Min Width	1000 mm
Max Width	4900 mm
Min Height	400 mm
Max Height	1980 mm

Please note: 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 Sliders**

### **Designs and Sizes**

Vertical Sliding secondary glazing is ideal for heat and sound proofing traditional wooden box sash windows, or any windows that have horizontal bars. Panels slide open in the same way as vertical sliding sash windows and provide easy access to the existing window.

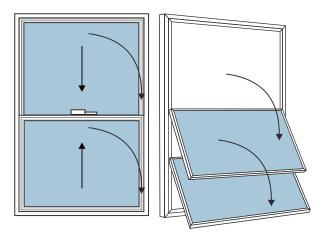
### **Balanced Tilt Back - Subframe or Slim-Line**

Balanced Tilt Back Vertical Sliders are hung on spiral balances concealed in the jambs, and adjusted to suit the weight of the panels. 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 for ease of cleaning and access to prime window for decorating.

Recommended Sizes	
Min Width	400 mm
Max Width	1250 mm
Min Height	800 mm
Max Height	2450 mm

#### 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 m<sup>2</sup>
- 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.



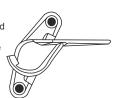
### **Balanced - Economy, Slim-Line or Subframe**

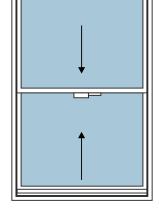
Balanced Vertical Sliders are hung on spiral spring balances concealed in the jambs and adjusted to suit the weight of the panels. Both panels are held closed with a Fitch Catch fastener positioned in the centre of the transom bar. The panels cannot be removed or tilted in for cleaning.

Recommended Sizes	
Min Width	400 mm
Max Width	1250 mm
Min Height	800 mm
Max Height	2450 mm

#### Please note

- Maximum panel weights are 18kg
- 4mm Glass 10.2kg m<sup>2</sup>
- 6mm Glass 15.2kg m<sup>2</sup>
- 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.





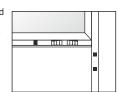
### Non-Balanced - Economy, Slim-Line or Subframe

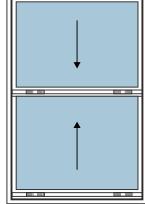
THE OPERATOR MUST SUPPORT THE WEIGHT OF THE PANEL WHEN SLIDING. The panels are held with spring loaded nylon bolts which locate in pre-set stop positions in the jamb to hold the panel in the desired open position. Panels can be removed for easy cleaning.

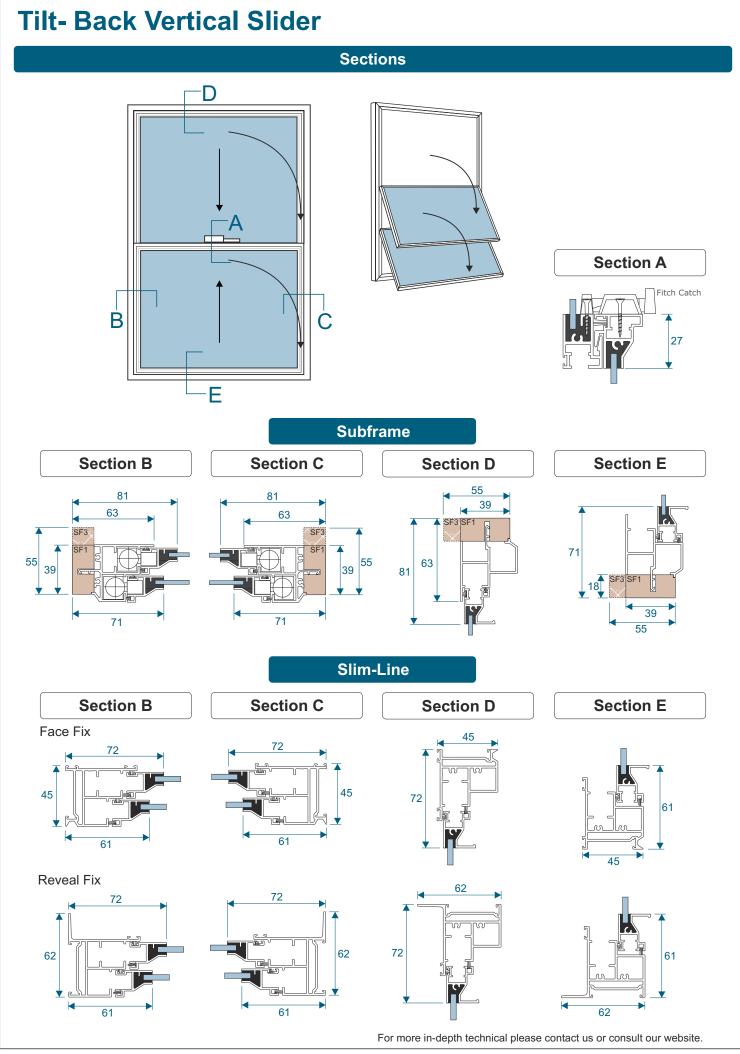
Recommended Sizes	
Min Width	400 mm
Max Width	1250 mm
Min Height	600 mm
Max Height	1850 mm

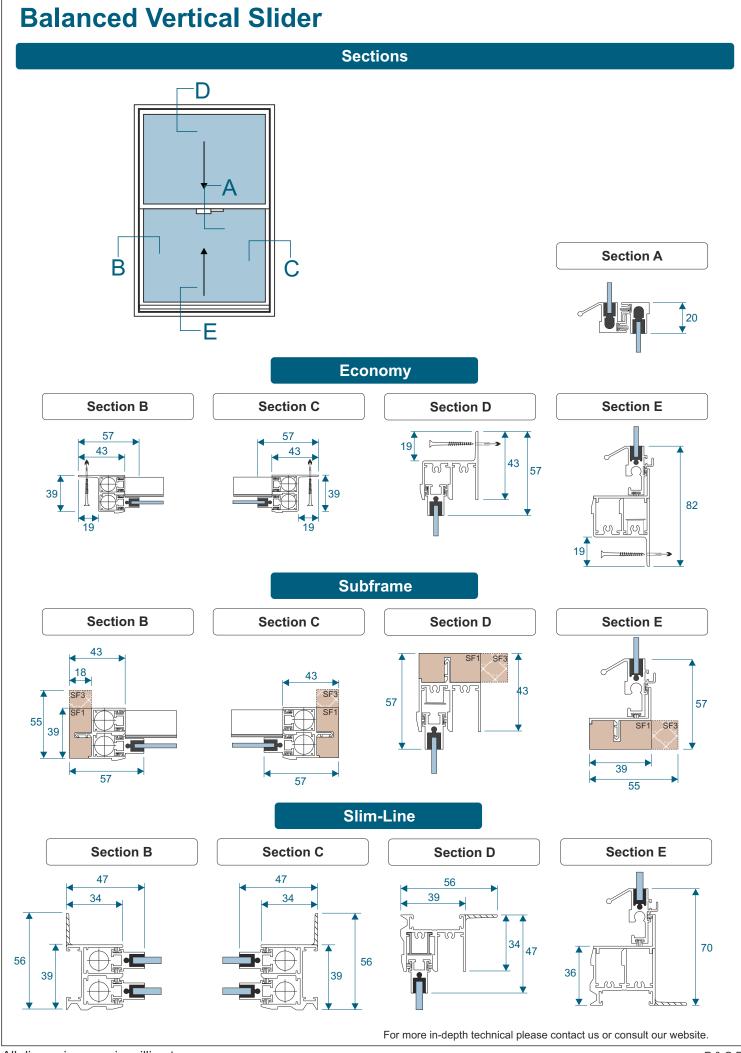
#### Please note

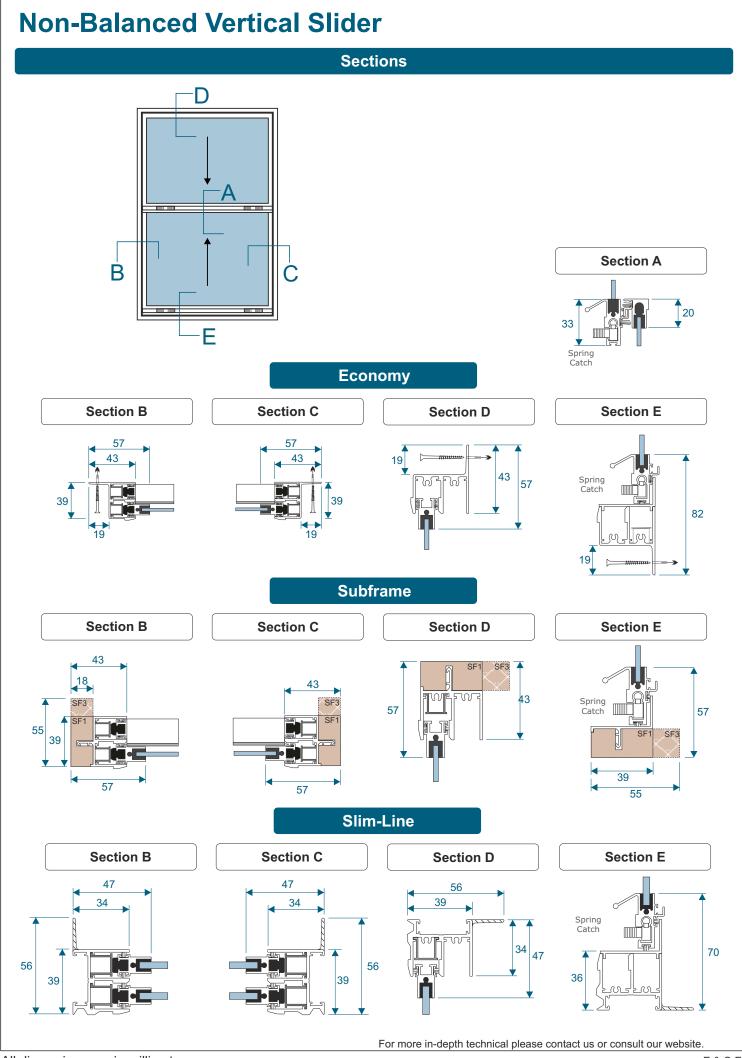
- Maximum panel weights are 18kg
- 4mm Glass 10.2kg m<sup>2</sup>
- 6mm Glass 15.2kg m<sup>2</sup>
- All these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.











# **Heavy Duty**

### **Designs, Sizes & Sections**

Heavy Duty secondary glazing has a more robust frame and also has the option of either single glazed or double glazed sealed units. Our heavy duty system is available as horizontal or vertical sliding and is reveal fix only.

### **Recommended Sizes - Horizontal Sliding**

2 Panel	
Min Width	800 mm
Max Width	3000 mm
Min Height	400 mm
Max Height	2400 mm

4 Panel	
Min Width	1600 mm
Max Width	4900 mm
Min Height	400 mm
Max Height	2400 mm

3 Panel	
Min Width	1200 mm
Max Width	4500 mm
Min Height	400 mm
Max Height	2400 mm

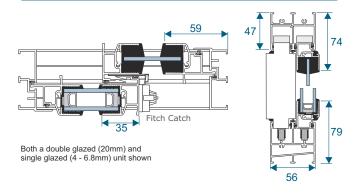
### **Recommended Sizes - Vertical Sliding**

Sizes	
Min Width	400 mm
Max Width	1500 mm
Min Height	900 mm
Max Height	2800 mm

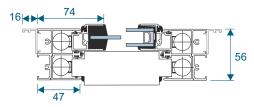
#### Please note:

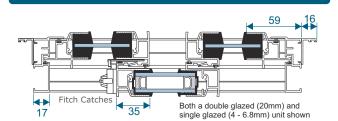
- Maximum panel weights are 50kg
- 4mm Glass Single Glazed: 10.2kg m<sup>2</sup> / Double Glazed: 20.4kg m<sup>2</sup>
- 6mm Glass Single Glazed: 15.2kg  $\mbox{m}^{2}$  / Double Glazed: 30.4kg  $\mbox{m}^{2}$
- All these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.
- Panels are not able to be lifted out for cleaning.

### **Two Panel Horizontal Slider**



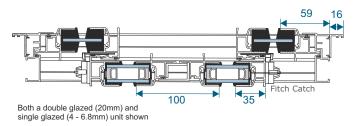
### Vertical Sliding Heavy Duty Secondary

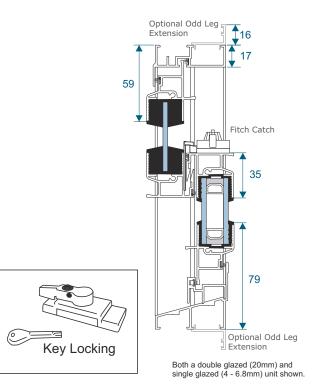




Three Panel All Sliding Horizontal Slider

### Four Panel All Sliding Horizontal Slider



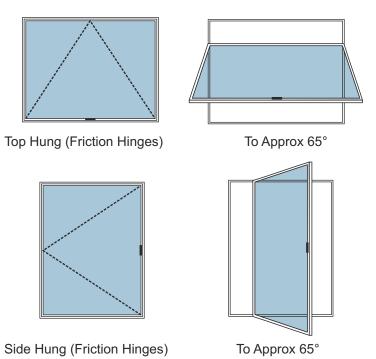


For more in-depth technical please contact us or consult our website.

# **Hinged Units**

### **Friction Hinges**

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 a white painted Fitch Catch.



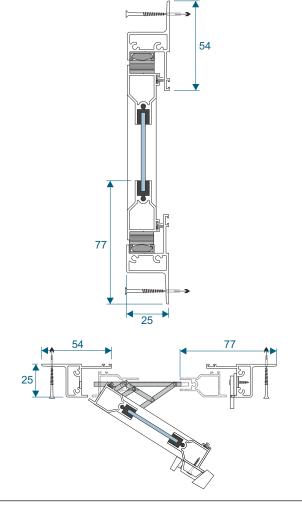
Top Hung Recommended Sizes	
Min Width	350 mm
Max Width	1250 mm
Min Height	400 mm
Max Height	1000 mm

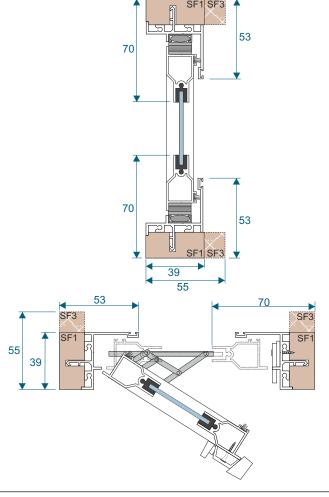
Side Hung Recommended Sizes	
Min Width	300 mm
Max Width	650mm
Min Height	400 mm
Max Height	1250 mm

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.

### **Friction Hinges - Economy Sections**

### **Friction Hinges - Subframe Sections**



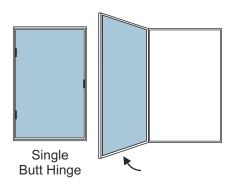


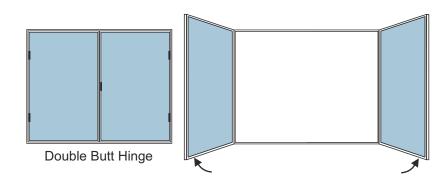
# **Hinged Units**

### **Butt Hinges**

Butt Hinged Units are manufactured as side hung and can be either single or double hinged as shown below. 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 secure it in a closed position.





Recommended Sizes Single Butt		
Min Width	300 mm	
Max Width	900 mm	
Min Height	400 mm	
Max Height	2100 mm	

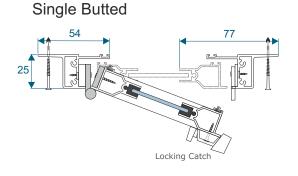
Recommended Sizes Double Butt		
Min Width	700 mm	
Max Width	1800 mm	
Min Height	400 mm	
Max Height	2100 mm	

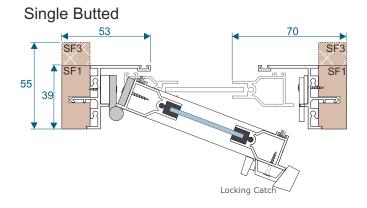
Approximate Opening	
Economy	170°
Subframe	150°

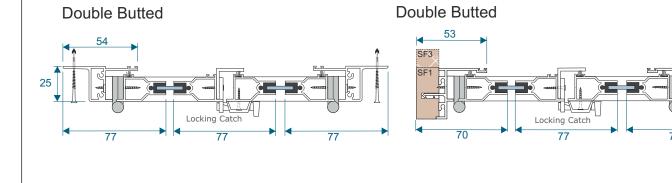
Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

### **Butt Hinges - Economy Sections**

### **Butt Hinges - Subframe Sections**







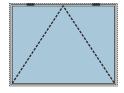
# **Hinged & Combination Units**

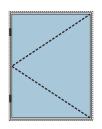
### Medium Duty Hinged Unit (Panel Only, No Frame)

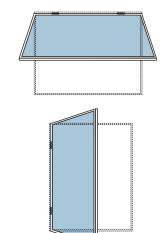
These units consist of the PANEL ONLY i.e. no frame - and are supplied with medium duty plastic butt hinges and magnetic catch.

Recommended Sizes	
Min Width	300 mm
Max Width	1250 mm
Min Height	400 mm
Max Height	1250 mm

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.

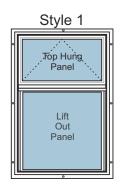


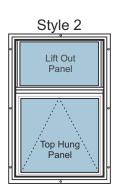


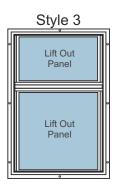


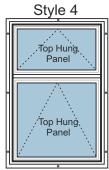
### **Combination Units**

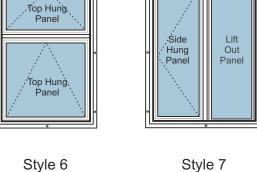
Units are supplied with one outer frame divided by a transom / mullion.

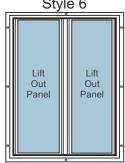














Style 5

### Recommended Max Sizes

Top Hung / Lift Out (Style 1)		
Max Width	1200 mm	
Max Height	2600 mm	

Lift Out / Top Hung (Style 2)	
Max Width	1200 mm
Max Height	2600 mm

Lift Out / Lift Out (Style 3)	
Max Width	1200 mm
Max Height	3000 mm

Top Hung / Top		
Max Width	1200 mm	
Max Height	2000 mm	

Side Hung / Lift Out (Style 5)		
Max Width	1800 mm	
Max Height	1500 mm	

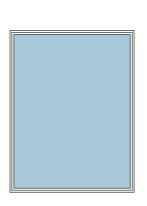
Lift Out / Lift Out (Style 6)			
Max Width	2400 mm		
Max Height	1600 mm		

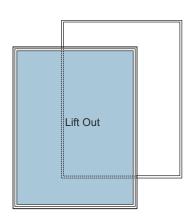
2x Top Hung / Lift Out (Style 7)			
Max Width	1600 mm		
Max Height	2200 mm		

# **Lift Outs**

### **Lift Out Units**

Lift Out Units are framed single pane windows with a removable panel for cleaning: They are not suitable for ventilation. The removable panel has 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 Recommended Sizes		
Min Width	300 mm	Min Height
Max Width	1250mm	Max Height

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.

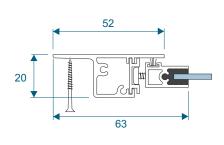
### **Economy Lift Out Sections**

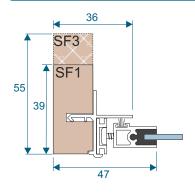
### **Subframe Lift Out Sections**

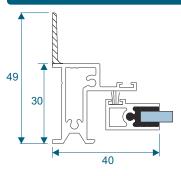
300 mm

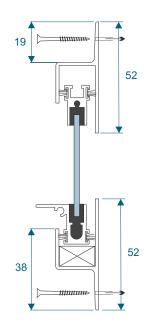
2100mm

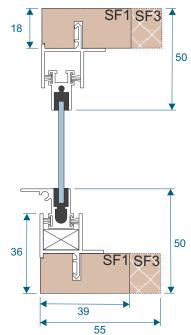
### Slim-Line Lift Out Sections

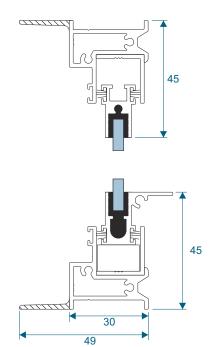






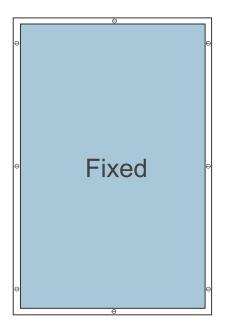






For more in-depth technical please contact us or consult our website

# **Fixed**



Fixed secondary glazing units are manufactured as a single pane glazed panel which fix directly to existing windows or doors with screws.

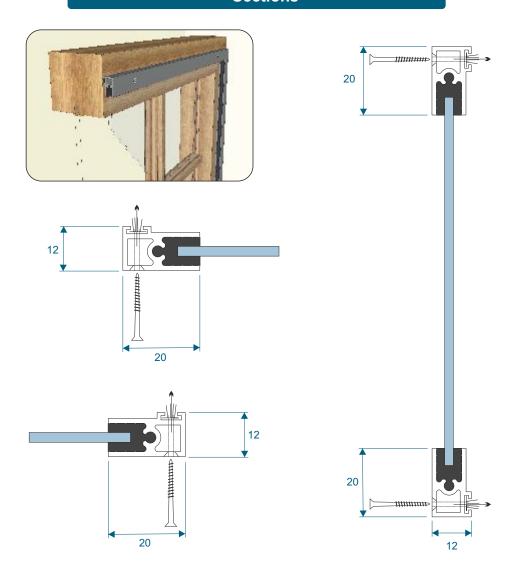
They have no opening mechanism and can not be easily removed for general cleaning or for ventilation.

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

Fixed Recommer	nded Sizes		
Min Width	300 mm	Min Height	300 mm
Max Width	1500 mm	Max Height	2500 mm

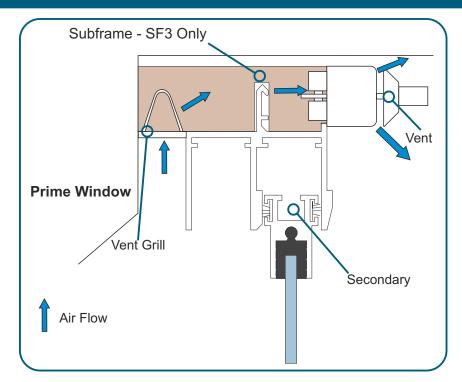
Please note that all these sizes are recommended sizes and special requests to go under or over these sizes may be possible but will not carry the standard guarantee.

### **Sections**



For more in-depth technical please contact us or consult our website.

# **Trickle Vents**



Trickle vents can only be used with a SF3 reveal fix subframe.

The vent is placed within the subframe and provides additional ventilation.





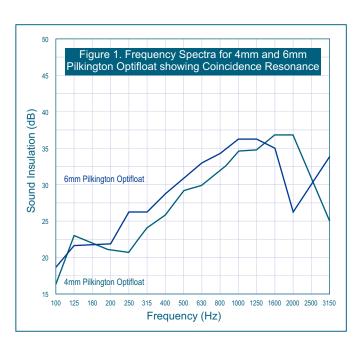


We reserves the right to make changes to product specification. The images used are artistic representations and are not binding in detail, colour or specification.

# **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.



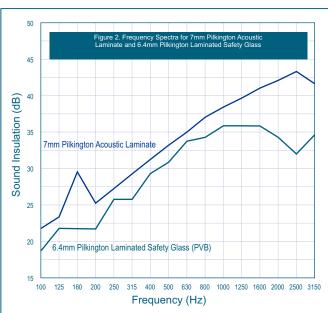


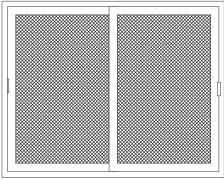
Table 1 Sound Insulation Data for Single Glazing

Thirdoctaveband	Sound Insulation (dB) for Glass Thickr					ness (mm)		
Centre Frequency (Hz)	4		6		6.4 PVB		Pilkington Acoustic Laminate 7	
100	17		18		18		23	
125	23	20	22	20	22	20	25	24
160	22		22		22		25	
200	21		22		22		24	
250	21	22	26	24	26	24	26	26
315	24		26		26		28	
400	26		29		29		30	
500	29	28	31	31	31	31	32	32
630	30		33		33		34	
800	32		34		34		36	
1000	34		36	35	36	35	37	37
1250	34	33	36		36		39	
1600	36		32		36		39	
2000	36	34	26	29	34	33	40	40
2500	31		30		31		41	
3150	25		34		35		39	
4000	31	28	37	36	39	38	35	37
R <sub>m</sub> (dB)	27		29		30		32	
R <sub>w</sub> (dB)	30		32		33		36	
R <sub>TRA</sub> (dBA)	27		28		29		31	

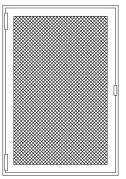
# **Fly Screens**

### **Fly Screen Windows**

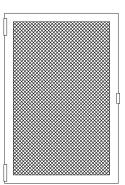
Manufactured from the same high quality materials as the glazed units these fine meshed panels allow windows to be opened without the fear of being invaded by flying insects.



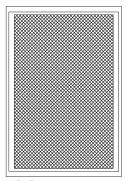
Horizontal Slider



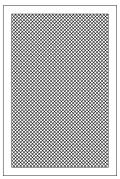
Hinged (with Subframe)



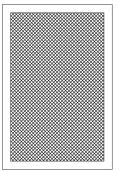
Hinged Panel (no Subframe)



Lift Out



Fixed Panel (No Subframe)



Insert Panel (in place of Glazed Panel)

### **Recommended Max Sizes**

Horizontal Slider		
Max Width	1300 mm	
Max Height	1200 mm	

Hinged (With Frame)		
Max Width	650 mm	
Max Height	1200 mm	

Hinged Panel (N	No Frame)
Max Width	650 mm
Max Height	1200 mm

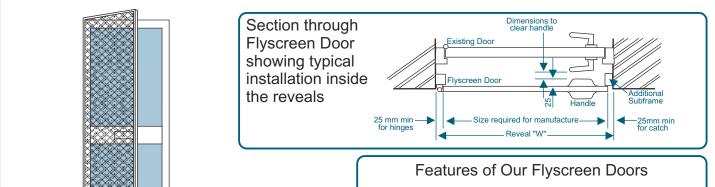
Fixed Panel	Fixed Panel			
Max Width	650 mm			
Max Height	1200 mm			

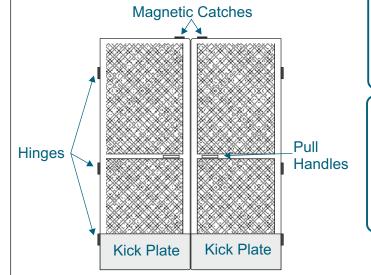
Lift Out			
Max Width	650 mm		
Max Height	1200 mm		

Insert Panel (In Place Of Glazed Panel)		
Max Width	650 mm	
Max Height	1200 mm	

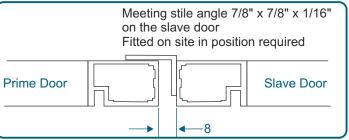
# Fly Screen Doors. Finishing Trims.

### **Fly Screens Doors**



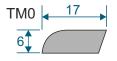


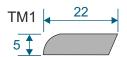
- Maintenance Free Aluminium.
- Strong Nylon coated fibre glass mesh.
- Choice of White, Silver or Brown Finish.
- To Fit Doors up to 900mm x 2150mm.
- Inward or Outward opening.
- Will lift off for Easy Storage.

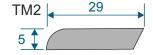


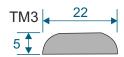
Note: Maximum handle clearance is 40mm from the inside face of the frame

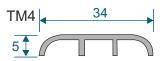
### **Trims**

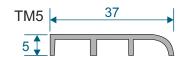












### **Main Office & Factory**

Units 4-5, t: 01268 681612 (15 lines)

Charfleets Road, f: 01268 510058

Canvey Island, e: sales@duration.co.uk
Essex. SS8 0PQ w: www.duration.co.uk

### **Grand Design Exhibition Centre**

Unit 1 Casino Parade, t: 01268 695100

Eastern Esplanade,

Canvey Island, SatNav Directions
Essex. SS8 7FJ Use: SS8 7DN.