

# Secondary Glazing

Aluminium Secondary For A Warmer, Quieter Life



# Use Secondary Glazing For A Warmer & Quieter Life



Our Secondary glazing is designed to keep the heat in and the noise out by adding an extra slim-line window in addition to your existing windows. This type of product is perfect for both residential or social housing on main roads - even where double glazed windows are already fitted. Any building where altering or replacing the prime window is not possible or not cost effective, such as listed buildings and rented accommodation, will benefit from the installation of secondary glazing.

Our aluminium secondary glazing is of the highest quality, light weight, highly effective and has a range of specialist glass for maximum noise reduction and thermal performance. Built to last, it is virtually maintenance free and will give you many years of trouble free service.

## Key Benefits

- Improved thermal insulation.
- Highly effective for noise reduction.
- Save money on heating bills.
- Retain the exterior character of the building.
- Perfect for use in listed buildings.
- Cost effective.

## Key Features

- Range of glass available for improved security, heat retention or acoustic performance.
- All products are made to measure.
- Ease of installation.
- Slim-line and discrete.
- Range of styles to suit all windows.
- Variety of frame options to suit all applications.
- Face fix or reveal fix options.
- Available in White, Silver, Brown or any RAL colour.
- Variety of trims available to provide a neat finish.
- Can incorporate flyscreens for use in the summer months.
- Fixed curved styles available.
- Heavy duty vertical or horizontal sliders available for larger styles.

## Secondary Styles

- Horizontal Sliding
- Vertical Sliding
- Hinged
- Lift Out
- Combination Units

## Secondary Systems

- Economy - Most affordable
- Luxury Subframe - Aluminium frame with wood surround
- Slim-Line Equal Leg - Slimmest sight-lines
- Heavy Duty - For larger applications



Unobtrusive Design



Noise Reduction



Heat Insulation



Cost Effective

# 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

## Luxury Subframe

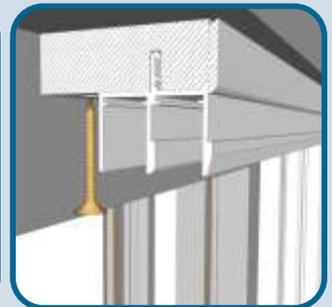
Our Luxury Subframe system has an additional wooden frame that wraps around the aluminium frame. The subframes come in a choice of wood types and depths for face fixing or reveal fixing. Trims are available to give a neat clean finish.

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

## 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

## 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)

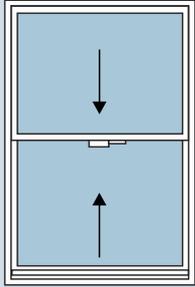


Reveal Fix

# Styles of Secondary

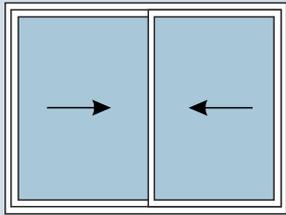
We offer an extensive secondary glazing range to cater to all of your needs. Designed to suit almost any building, historic or contemporary, and to be as sympathetic as possible to the character of the building.

## Vertical Sliding



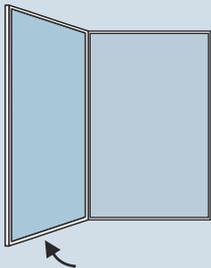
- Ideal for traditional sash windows.
- Can be used on a 'fan lite over fixed' window.
- Non-Balanced: Panels open to set positions.
- Balanced: Panels are weighted and can be opened to any position.
- Balanced Tilt-Back: Panels are weighted, can be opened to any position and are able to tilt inwards for greater access & cleaning.
- Frame options: Economy\*, Luxury Subframe, Slim-line equal leg or Heavy Duty\*.

## Horizontal Sliding



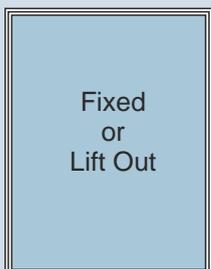
- Ideal for casement and ribbon windows.
- Smooth sliding action using nylon skids.
- Can be made in 2, 3, 4 or 5 panels configurations.
- Frame options: Economy, Luxury Subframe, Slim-line equal leg or Heavy Duty.
- Three track option available for maximum ventilation.
- Fly screen inserts available.

## Hinged Units



- Suitable for both windows and doors.
- Single or double hinged designs available.
- Can use butt or friction hinges.
- Available frames: Economy or Luxury Subframe.
- Doors can have low threshold option.

## Lift Outs or Fixed



- Both suitable for applications where access to the existing windows is not paramount.
- Frame options for lift outs: Economy, Luxury Subframe or Slim-line equal leg.
- Frame options for fixed: Economy only.
- Fixed windows are the most cost effective product.
- Fixed windows can be curved.



Horizontal Slider



Vertical Slider



Horizontal Slider



Hinged



Lift Outs

## Noise Reduction

Noise from traffic, aircraft and the general noise from inner city areas and main roads can be a real disruption to the quality of your living or working environment. Fitting secondary glazing is a cost effective way to significantly reduce external noise.

4mm glass is very effective at providing noise insulation, but by specifying high specification glass (6mm+) such as Laminated glass or Acoustic glass you can further improve on the amount of noise reduction.

We can also supply our Heavy Duty system with double glazed units for further acoustic performance.

Third octave band Centre Frequency (Hz)	Sound Insulation (dB) Glass Thickness (mm)			
	4	6	6.4 Lam	6.8 Acoustic
125	20	18	20	21
250	22	23	24	26
500	25	30	31	31
1000	31	35	35	35
2000	34	27	33	37
4000	29	32	38	38
Rw	30	31	33	35
Rw + C	29	29	32	34
Rw + Ctr	27	28	29	32

## Thermal Insulation

Our secondary glazing can reduce heat loss in your windows by up to 50%. You can specify ordinary Float or Toughened glass, or for even better thermal performance you can specify a thermal glass with coating. By adding the extra pane of glass in addition to your existing windows heat loss is dramatically reduced. For extreme circumstances we have a Heavy Duty system that can take a double glazed unit for the ultimate in thermal insulation and noise reduction.

## Period & Listed Buildings

With many listed or period builds where you are unable to install new windows, our secondary glazing offers the perfect discrete solution for improved thermal or acoustics.

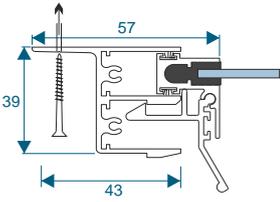
In most cases permission from your local heritage authority will not be needed to install secondary glazing and in most cases is the preferred solution to preserve a listed building or to preserve the character of a special area.\*

\* Please check as every area is different.

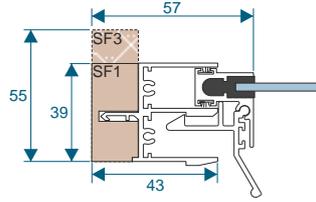
# Example Technical

## Horizontal Sliders

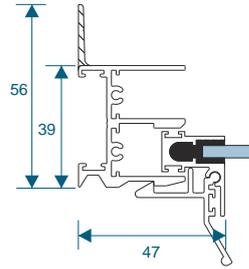
Economy Odd Leg



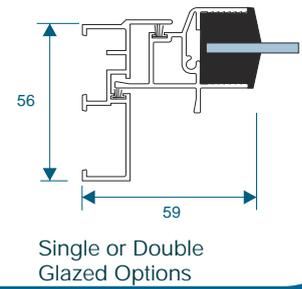
Luxury Subframe



Slim-Line Equal Leg



Heavy Duty

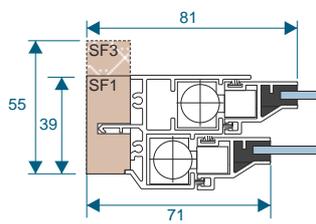


## Tilt-Back Vertical Sliders

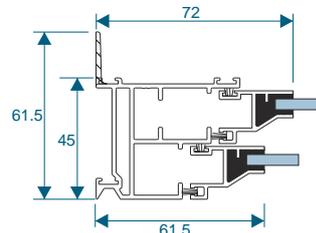
Economy Odd Leg

Not Available

Luxury Subframe



Slim-Line Equal Leg

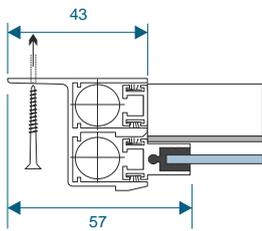


Heavy Duty

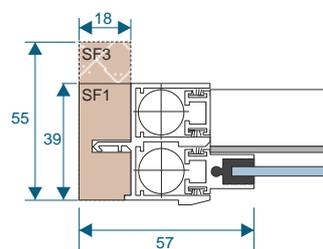
Not Available

## Balanced Vertical Sliders

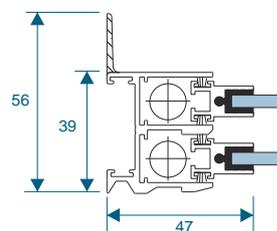
Economy Odd Leg



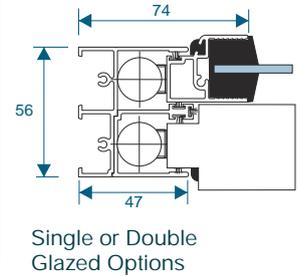
Luxury Subframe



Slim-Line Equal Leg

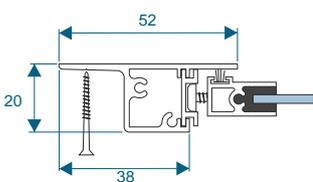


Heavy Duty

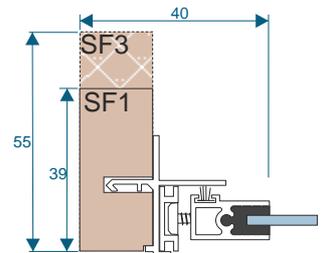


## Lift Outs

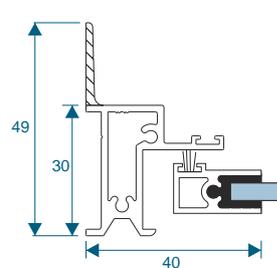
Economy Odd Leg



Luxury Subframe



Slim-Line Equal Leg



Heavy Duty

Not Available

## Fixed

