Secondary Dimensions and Drawings



Arrows show direction of fixing screws. Arrows shown in two different directions section can be fitted either way Drawings are for illustration only. Do not scale

Secondary Glazing Fixed Unit



Secondary Glazing Hinged Unit





Secondary Glazing Horizontal Sliders 2 to 6 panel configurations



Secondary Glazing Horizontal Sliders 2 to 6 panel configurations



Secondary Glazing Horizontal Sliders 2 to 6 panel configurations Outerframe 707/708 - Odd Leg - Face Fix **Typical Elevation** 34mm — → Ï 11 С D 38.4mm С Two panel slider D 11 ТÌ 11 **PVC screw** cover trim **Three panel** slider centre fixed Α Three panel slider centre right or centre left Heavy duty interlock В for panels over 1700mm high Glazing available in 4mm - 6mm and 6.4mm laminate glass Panels slide on nylon skids 📕 Or steel rollers 0 Do not scale 1 to 1 Four panel

slider

Bi-Part

SDG Sheet No 6



Secondary Glazing Horizontal Sliders 2 to 6 panel configurations



Secondary Glazing Counterbalanced Vertical Slider







Secondary Glazing Friction Vertical Sliders

Outerframe 307/308 - Odd Leg - Reverse Fix





Secondary Glazing Friction Vertical Sliders

Outerframe 507/508 - Equal Leg - Universal Fix



Secondary Glazing Tilt to Clean Counterbalanced Vertical Slider



Secondary Glazing Tilt to Clean Counterbalanced Vertical Slider

Sheet 2 of 2







SDG Sheet No 17

Secondary Glazing Additional Extrusions 303 and 805





Secondary Glazing Horizontal and Vertical Coupling Mullion or Transom



Specification - Season Master Secondary Glazing

- Material:Metal sections are manufactured from 6063T6 extruded aluminium to
BS1474.
- Finish: Sections are finished Silver Anodised AA10, White powder coated – SA098E, Van Dyke Brown Powder Coated BS 08 B 29 All to BS6496 produced in a factory controlled by BS5750 part 2 (EN29002), IS09002 and QUICOAT registered.
- **Weather seal:** Sealed with twin polypropylene products tested to draft standards windows with seal tested for performance to BS6375 and BS5358.
- **Glazing:** Glazing can be with 4, 6 & 6.4mm glass or with appropriate substitute of similar thickness.
- **Fabrication:** Windows are fabricated in accordance with Season Master's fabrication guide.
 - Season Master Windows have been used extensively for local authority contracts. The following have been supplied with secondary glazing.
 - Enfield, Greenwich, Islington, Birmingham, British Airport Authorities for Heathrow, and the Ministry of Defence.

'U' Values for Season Master secondary glazing



Pane A 4mm float glass Pane B 4mm ekologik hard coat glass

<u>Standards</u>

Luminous and solar characteristics of glazing : EN 410 (1998) Determination of UV, light and total solar transmittance :ISO 9050 (1990) Determination of thermal transmittance: EN 673 (1997)

Light Factor

Transmittance LT	69%
Outdoor reflectance LRE	18%
Indoor reflectance	16%

<u>U V Factor</u>

UV Transmittance TUV 27%

Energy Factors CEN (EN410)

Transmittance TE	53%
Outdoor reflectance RE	17%
Absorption A1	11%
Absorption A2	20%
Calau fastau a	0.00
Solar factor g	0.69
Shading coefficient SC	0.79

Solar factor g DIN 67507 (m1) 0.68

The figures given are estimated using software on a computer prior to Hot Box Testing.

Air gap between secondary glazing and existing window

25mm	1.8 W/(m2.K)
50mm	1.8 W/(m2.K)
75mm	1.9 W/(m2.K)
100mm	1.9 W/(m2.K)

Estimated U value

The U values achieved combined with Season Master secondary glazings unique draft proofing properties offer an excellent reduction in heat loss. With air infiltration kept to an absolute minimum.

Energy Efficiency

Get the low-down on U values...

What do we mean by U value?

U value is a means of comparing the heat lost through various parts of a building. A part of a building with a U value of 4.0 W/m²K will lose twice as much heat as one with a U value of 2.0 W/m²K.

The lower the U value the less heat you lose

A single glazed window has a U value of 5.6, with secondary glazing this can be reduced to 1.8 - 1.9. Low E glass in secondary glazing reflects most of the heat back into the room.



Living with your windows is easy...

Draughts through your windows can create cold spots around the room, particularly around the legs and feet, as a result heating is normally turned up higher to compensate. The tight tolerances designed into our secondary glazing system keeps cold air and dust out whilst retaining the warm air in the building.

Air permeability test

This defines the ability of the window to resist air penetration when it is subjected to differential pressure and is a measure of the air which seeps through the test window at given test pressures.

The secondary met the stringent test results of Pressure Class 300Pa, and was tested by BSI to the following standards. BS 5368: Part 1 BS 6375: Part 1

Air-conditioning

Extensive use is made of air-conditioning in today's busy offices, shops and at home. Installing secondary glazing will help to reduce the energy used in cooling the building and stops cool air escaping out through your windows.

Sound Reduction

Sound doesn't have to be complicated ...

How does sound travel?

Sound travels through the air like ripples on a pond surface. The sound radiates outwards in all directions from the source. gradually reducing in intensity or until an object stops its progress.

Sound (dB Decibels)

Sound is described in different ways but primarily in terms of intensity and frequency. The sound intensity is described in dB. A low dB indicates a soft sound; a high dB value indicates a loud sound. Frequency describes how high or low pitched the sound is (Hz).

Sound Reduction

A sound's volume at 60dB decreased by...

- **3dB** is just perceptible
- **5dB** clearly noticeable
- 10dB half the original volume

Recommended Indoor Ambient Noise Levels In Dwellings: Bedrooms 30-35dB Living rooms 30-40dB

Test results carried out at BRE

At the Building Research Establishment in Watford, a primary window with 4mm glass was tested with our secondary glazing installed behind and achieved the following results.

The Existing Window Achieved a Reduction of 26 dB

With secondary glazing installed with a 100mm air gap between the two, the following results were achieved:

4mm Glass	39 dB	
6mm Glass	39 dB	
Laminated	40 dB	
Acoustic Glass	45 dB	

Estimated 65% reduction in 65% sound through 70% the window 75%







Have you become a radiator hugger?





Would you prefer life to be a little more comfortable?

Do you suffer from cold rooms and draughts?

Secondary Glazing Improving your life style for the better



Is local noise a major distraction to your daily routine?

Secondary glazing has stood the test of time and remains the best form of insulation for homes, offices, public and private sector buildings against heat loss, draughts and noise intrusion.



Easy Installation With No Mess

All windows in our range are aesthetically designed to integrate seamlessly with your existing décor, and are available in a full range of colours.



Unsurpassed Quality... Effective Simplicity



- Up to 45dB reduction in sound through your windows depending on glass choice
- Draught free
- Low E glass available to help reduce heat loss
- Reduced energy consumption in winter and summer
- Keeps cool air in when using air conditioning
- Fly screens to keep insects out

A number of window designs are available to choose from to help suit existing window and door styles.

Excellence Through Design



Tailor-made units are manufactured to exact specifications. Combined with our highly efficient sealing qualities, this makes our system the obvious choice for the discerning buyer.



Fly screens can also be installed behind a glazed panel to offer additional protection throughout the year against airborne and crawling insects.

Window Styles available

Fixed, Hinged, Lift Outs, Horizontal Sliders, Friction & Counter Balanced Vertical Sliders, Easy Clean Tilt-in Counter Balanced Verticals.