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

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February 2009

SELECTAGLAZE

secondary glazing

*- helping to preserve
landmark, listed &
heritage buildings*



what is secondary glazing?

A fully independent window system fitted to the room side of an existing window. This is not a new concept since in the 19th century some houses were constructed with a second double hung sash window to reduce heat loss and provide noise insulation. Today's high performance secondary glazing leaves the existing window unaltered and in its original state.

Why use secondary glazing?

Planning Policy Guidance PPG15 recognises that the best way to secure historic buildings is to keep them in active usage and this may involve some adaptation to meet current needs. The rich tapestry of window designs are an important part of the character of a building and must be retained but single glazed frames are a major source of heat loss, provide little protection against noise and offer minimal resistance to burglary.

Purpose made Secondary Glazing will improve the buildings environment and make it more attractive to end users by reducing air leakage and heat loss, dramatically improving noise insulation and providing an additional security barrier.

Sensitive Design

Secondary glazing can be designed to have minimal visual impact using discrete frames and is a reversible intervention.

Selectaglaze secondary glazing is:

- Purpose designed to closely match the existing window
- Discreetly fitted with minimum visual intrusion
- Offered in many colour shades to suit the building's décor.
- Easy to use and maintain
- Demountable if reinstatement required

Listed Building Consent

It is important to refer proposals to the local planning authority as Listed Building Consent and / or planning permission may be required. In most instances secondary glazing will be an acceptable addition.

Acknowledgment

Guides produced by many Heritage organisations recognise that secondary glazing is a practical and acceptable way to improve insulation levels.

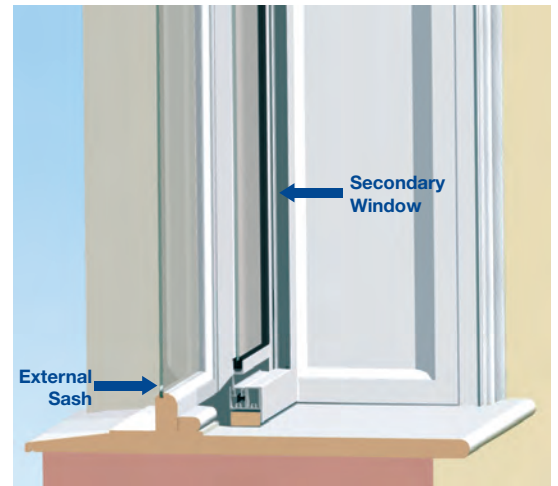
English Heritage – Framing opinions, Energy conservation in traditional buildings

Historic Scotland – Looking after your sash and case windows

SPAB – Technical Q&A 16: Upgrading Windows

Victorian Society – Guide No 9: Timber Windows

The Georgian Group – Guide No 1: Windows



making a difference



Conserving energy

Energy used to heat buildings accounts for 44% of the UK's total usage and older buildings are the most thermally inefficient. The UK climate change target is a 60% reduction in CO2 emissions by 2050 and this can only be met if the insulation levels of existing buildings are considerably improved.

Selectaglaze Secondary Glazing has highly efficient draught seals and, by introducing a double skin of glass with an insulating layer of air, it can:

- Reduce heat loss through the window by **up to 65%** and meet Part L standards
- Minimise cold draughts
- Improve comfort levels and space utilisation

Peaceful environments

Noise is unwanted sound and high ambient noise levels in the living and working environment can be very disruptive, leading to reduced concentration, rising stress levels and sleep deprivation.

Selectaglaze secondary glazing fitted with an air gap of 100mm or more will:

- Reduce noise levels typically by **42 - 45dB**

Secure surroundings

Windows are normally seen as 'soft targets' for intruders and, if subjected to a blast attack glass will shatter into a multitude of shards leading to personal injury and destruction of equipment and services.

Many sensitive buildings used by Public Bodies, Institutions and Museums are listed or within conservation areas and consequently windows cannot be altered. In these circumstances secure secondary windows can provide an effective and attractive solution.

Selectaglaze secondary glazing can offer:

- Products licensed to **Secured by Design** - a 'Police Preferred Specification'
- Insurance approved burglary resistance
- Significant resistance to explosive devices

Purpose made

The performance, aesthetics and usability of secondary windows are dependent on both the design approach and the installation method.

Selectaglaze offers a wide range of products, glass types and frame finishes and will:

- Assess the individual needs and prepare appropriate design proposals and glazing recommendations
- Offer a wide range of colour finishes and even wood grain effects in place of the standard white finish.
- Prepare a close tolerance production survey to ensure best fit and optimum insulation or security levels
- Complete Health & Safety checks and provide directly employed skilled site staff to install the products with minimum disruption.

discreet designs

The comprehensive Selectaglaze system has been developed to treat almost any style of window. The frames are made from aluminium which is an ideal material to use in traditional buildings. It is strong, lightweight and can be extruded to form the slender, complex shapes needed to accommodate seals, fixings and specialist hardware. A permanent finish, normally paint, is easily maintained and prevents corrosion. Aluminium does not distort but can be factory curved to follow the existing window design.

Vertical Sliding

A popular treatment for traditional sash windows allowing easy access for ventilation. Panels are supported by spring balances for safe operation and contra slide or tilt in to facilitate cleaning. A wide range of size and performance criteria can be met with the choice of four frame designs.

Horizontal Sliding

Ideal for treating timber and steel casement windows. Frames can be coupled to deal with large or ribbon windows. The panels run on glide pads or rollers providing easy access to the external window. Three frame designs are available.

Hinged

These are particularly suited to French windows and Sash and Case windows where full access is required. They are also applied to traditional sash windows when minimum visual impact is an important consideration. High compression seals and multipoint locking ensure optimum performance. Hinged units can also be glazed with sealed units to achieve triple glazing when environmental needs are paramount. Five frame designs are available.

Shaped

Traditional buildings have a rich variety of window designs including Venetian sash, Gothic, Bow windows and curved casements. Selectaglaze systems can be sympathetically shaped and curved to match almost any window.

Quality Assurance

Selectaglaze is certified to ISO 9001 through the Loss Prevention Certification Board and has received recognition through the granting of a Royal Warrant. Products are submitted to rigorous performance tests for independent certification.

Thermal Efficiency: U-value assessment through the Centre for Window and Cladding Technology (CWCT)
Noise insulation: Tests at Taywood Laboratories to BS EN ISO 140-3:1995
Blast resistance: Tests at Spadeadam blast test range to ISO 16933
Intruder resistance: Tests at BRE and LPCB to LPS1175 and BS7950

Founded in 1966, Selectaglaze is the UK's leading specialist designer of secondary glazing systems and has a wealth of experience working in buildings of all types.



Assessed to ISO 9001:2008
Certificate number 683



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improving our environment

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A Member of the
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