

selectaglaze™



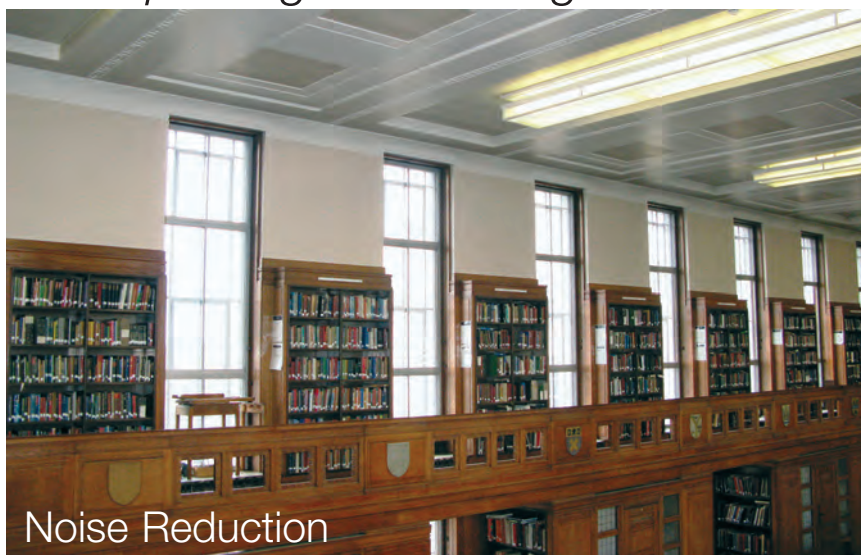
By Appointment to
Her Majesty The Queen
Manufacturer and Supplier
of Secondary Glazing
Selectaglaze Ltd.
St. Albans

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SELECTAGLAZE secondary glazing in education

...improving the learning environment



what is secondary glazing?

A fully independent frame fitted on the room side of an existing window to form a double window or 'double glazing'. The gap between the windows can vary but is normally greater when noise insulation is important.

how does secondary glazing improve the learning environment?

Highly effective noise insulation

Low ambient noise levels in classrooms will:

- Limit distractions
- Improve concentration
- Increase intelligibility
- Reduce voice strain

The upper limit for ambient noise levels in classrooms, regulated through BB93 – Acoustic design of schools, is 35dB and this reduces to 30dB for music and drama performance rooms. External noise levels can be up to 70-80dB from sources such as traffic, playgrounds or even internal performance studios. Selectaglaze Secondary Glazing can reduce noise levels typically by **42 - 45dB** but higher levels can be achieved.

Significantly improved comfort levels

Classrooms with traditional single glazed windows can be uncomfortable in winter months. Better insulation will:

- Improve comfort and therefore concentration levels
- Minimise draughts
- Lower energy costs
- Reduce Carbon footprint

Selectaglaze Secondary Glazing has highly efficient draught seals and, by introducing a double skin of glass with an insulating layer of air, can reduce heat loss through the window by **up to 65%**.

Enhanced security

Educational buildings are often the target of theft, vandalism and sometimes arson. More secure windows can:

- Protect valuable equipment
- Safeguard staff in reception areas
- Preserve clean environments
- Secure laboratory windows

Selectaglaze offers products certified to Secured by Design and are a '**Police Preferred Specification**'.

Meeting the needs

Selectaglaze products and services are designed to meet a range of practical needs:

- Enhanced protection using Safety glass
- Ease of operation and low maintenance
- Fast installation with minimal disruption
- Optional installation outside term times
- Phased installation to suit budgets
- Satisfy Heritage and Conservation needs



designed for a purpose



Selectaglaze secondary glazing designs are used extensively within Schools, Colleges and Universities in locations including:

- Classrooms
- Lecture halls
- Libraries
- Student accommodation
- Performance studios
- Control windows
- Secure reception windows
- Clean room environments
- Secure laboratories



Practical designs

The comprehensive Selectaglaze system can treat almost any type of window and is even suited to roof glazing.

Vertical Sliding

For traditional sash windows of any size. Panels are supported by spring balances and contra slide or tilt in to facilitate cleaning.

Horizontal Sliding

Ideal for most casement windows and can be coupled to deal with long window runs. The panels run on glide pads or rollers providing easy access to the external window.

Hinged

Suited to both doors and windows. 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.

Fixed

Designed for more specialist applications such as viewing windows in control rooms, drama studios and laboratories. The units offer high noise attenuation and significant levels of security.

Shaped

The huge variety of window designs found in traditional buildings present a real challenge. Selectaglaze systems can be sympathetically shaped and curved to match almost any window.



Purpose made

The performance, aesthetics and usability of the windows are dependent on both the design and installation. With such a wide range of products, glass types and frame finishes Selectaglaze 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 minimal disruption.





technically proven

Thermal Insulation

- The thermal efficiency of Selectaglaze secondary glazing in conjunction with existing primary windows has been assessed at the Centre for Window Glazing and Technology (CWCT).
- Frames incorporating standard glass can reduce heat loss by around 50%
- Frames incorporating single panes of low emissivity glass can reduce heat loss by around two thirds and exceed the performance required by Part L of the Building Regulations
- Even higher thermal efficiency is available with sealed glass units.
- Draughts are also a major source of heat loss. Selectaglaze systems are fitted with high performance seals to minimise air leakage.



Noise Insulation

- Selectaglaze systems have been tested at The Taylor Woodrow Technology Centre in accordance with BS EN ISO 140-3:1995
- A sound reduction of 45dB is readily achievable and 56dB has been registered in combination with a double glazed window.
- Noise insulation increases with the gap between the windows. A minimum 100mm is recommended.
- A range of glass options up to 12mm thick is available to optimise performance.



Security

- Selectaglaze systems have been tested at The Loss Prevention Certification Board (LPCB), at the Spadeadam Blast Test range, Chiltern International Fire and by Wiltshire Ballistic Services.
- Intruder resistance to BS7950 and up to level SR3 LPS1175
- Blast rated and 30 minute fire rated products
- Licensed to SECURED BY DESIGN



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.

For free technical advice or further product information, please contact:
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