

Superior thermal performance through FINEO by AGC

When working with heritage buildings, preservation authorities place particular emphasis on maintaining the original architectural elements. Here FINEO's Heritage Series elegantly balances aesthetic sensitivity with a strong focus on energy efficiency. Those concepts are consistently foregrounded by key principles in window restoration - namely that any replacements or upgrades to glazing must preserve the historical appearance of the façade. In

most practical cases, that entails refurbishing the existing windows to enhance their energy performance rather than undertaking full reconstruction. Even the most stringent heritage conservators acknowledge the growing necessity of energy-efficient renovation to ensure buildings remain suitable for continued and cost-effective use.

MODERN GLAZING IN A HISTORICAL CONTEXT

Generally, approval is granted for the installation

of new insulating glazing unless the original glass has notable historical value, such as mouth-blown cylinder glass or early drawn types. The ideal solution involves incorporating the new glazing into existing window frames without compromising their structural integrity. However, when the window frames themselves must also be preserved, standard double or triple glazing often proves unsuitable due to the excessive thickness of these units. Furthermore, modern float glass lacks the subtle visual irregularities and

characteristically undulating surfaces seen in older drawn glass varieties, making them ill-suited for accurate restorations.

A LEADER IN RESTORATION GLASS SOLUTIONS

A division of AGC, FINEO specialises in advanced glass solutions tailored for the sensitive renovation of protected and culturally important buildings. Its vacuum-insulating glass technology is not only highly effective in terms of thermal performance but also supports

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Offering an ideal solution for restoring historic windows, FINEO Heritage Series by AGC combines traditional aesthetics with modern energy efficiency in a series that enables heritage buildings to retain their character - all while meeting today's performance standards for insulation, comfort and sustainability.

improved daylight control and indoor comfort. The FINEO Heritage Series can be paired with Fourcault glass - a traditionally-manufactured restoration glass - creating a product that respects both modern demands and historical aesthetics. With a slim profile between 10 and 17 millimetres, FINEO Heritage glass is notably thin-

ner than conventional insulating glass and thus fits into most existing window frames without modification.

RESTORED FRAMES, UPGRADED EFFICIENCY

Once historic frames have been carefully restored and



paired with this high-performance glass, the building's exterior retains its authentic character while achieving the energy efficiency standards of a contemporary triple-glazed structure. Where original single-pane windows typically have U-values exceeding $5.8 \text{ W/m}^2\text{K}$, FINEO Her-

itage achieves an impressively low U-value of $0.7 \text{ W/m}^2\text{K}$. In terms of solar gain, the glazing allows a total energy transmittance of no less than 57 percent, while sound insulation values reach up to 40 dB, significantly enhancing interior comfort in historic environments.

ABOUT AGC GLASS EUROPE

A European leader in flat glass, AGC Glass Europe produces, processes and markets flat glass for the construction industry (external glazing and interior decoration), the automotive industry (OEM and replacement glass) and other industrial sectors (transport, solar power and high-tech). It is the European branch of AGC, a world leader in flat glass, and has over 100 sites throughout Europe and employs around 13,000 employees.

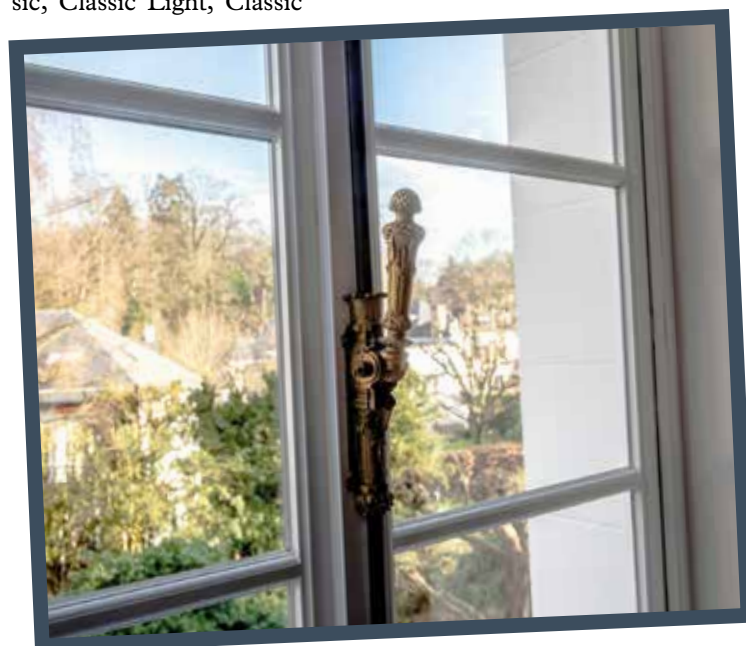
Strong, Modern and Traditional Light- each offer distinct patterns of waviness, streaking and surface irregularities, representing historical glazing styles from around 1880 to the present day.

DESIGN FREEDOM WITH AUTHENTIC APPEAL

Beyond these visual qualities, the product's engineering delivers several clear advantages. Its ultra-thin composition accommodates use in original timber or metal frames, including those with complex shapes such as arches. It maintains high visual clarity and transparency, while significantly enhancing thermal and acoustic insulation. FINEO Heritage is also highly durable and low-maintenance, offering a 20-year warranty

TRADITION AND TECHNOLOGY IN PERFECT SYNCHRONY

The development of the Heritage series was carried out in close cooperation with experts in restoration glass, relying on the time-honoured Fourcault process. This collaboration has resulted in a glass range that brings together superior thermal insulation with the optical qualities essential for historical authenticity. The five available versions -Classic, Classic Light, Classic





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ABOUT FINEO

FINEO is the new generation of insulating glass. With its unrivalled thinness, this vacuum glazing provides optimum thermal and acoustic comfort, meeting the expectations of joinery professionals concerned about sustainability and energy efficiency. Under the aegis of AGC Glass Europe, FINEO benefits from a revolutionary production method compared with glazing for buildings. In terms of both thermal and acoustic insulation its incomparable thinness in no way detracts from its technical prowess.

and an estimated 60-year lifespan. From a sustainability perspective, its production within Europe and circular environmental approach support a reduced carbon footprint. Based in Belgium, FINEO by AGC notably remains the sole European manufacturer to have attained CE marking for vacuum-insulating glass - a testament to both its in-

novation and quality assurance.

FINEO
by AGC

Avenue Jean Monnet 4
1348 Louvain-la-Neuve
Belgium
info@fineoglass.eu
www.fineoglass.eu



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