

FINEO

by AGC

LESS IS MORE



SUSTAINABLE VACUUM INSULATING GLAZING

The insulating power of triple glazing
with the thinness of single glazing.

THE NEW GENERATION OF INSULATING GLASS

FINEO BY AGC

After years of development, **FINEO** was launched in 2019 by parent company **AGC Glass Europe**, which boasts over 100 years of experience in the glass industry and has been developing insulating glass for 60 years.

AGC is well known as a **pioneer in the development of new glass technologies**, focusing resolutely on combining enhanced performance with longer life.

FINEO is the result of a collaborative effort between AGC Glass and Panasonic that combines the expertise of these two industry leaders to develop this high-performance technology. **FINEO is a vacuum glazing produced in Europe**, at a state-of-the-art production facility in Belgium (Lodelinsart).

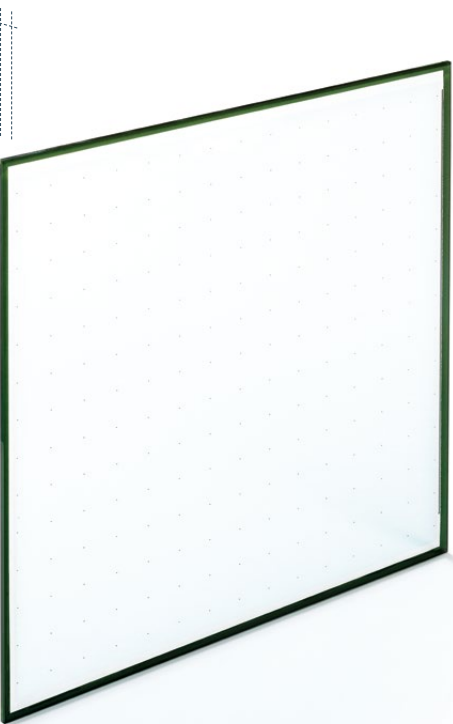
FINEO paves the way for a new generation of high-performance windows and for fitting existing window frames with the most efficient and green glass technologies possible.



WHAT IS FINEO?

FINEO is much more than glass technology. It is pure comfort, delivering exceptionally high thermal insulation in an extremely thin package.

FINEO*
8 mm | 20 kg/m²



The secret to **FINEO's** exceptional insulating power lies in its structure. **Two glass sheets are separated by an extremely thin vacuum cavity of just 0.1 mm.**

One of the sheets features a low-emissivity coating. The **glass sheets** are just **3 to 6 mm thick**, depending on the version. Despite its minimal thickness, this innovative **vacuum technology** delivers **extraordinary performance**.



CE MARKING

FINEO is a CE marked product,



FINEO was named Product of the Year 2023 by the prestigious Society of Facade Engineering in the United Kingdom.

A RANGE CUSTOMISED FOR EVERY NEED

FINEO offers a wide range of products that always meet the specific requirements of your project.

FINEO is available in various ranges with unique properties, including **solar protection, noise reduction, fire resistance** and **impact protection**. **FINEO** leverages its slim form factor to deliver a **highly cost-effective solution** for the renovation and restoration of historic buildings. There is even a monumental glass version for restoration projects. **FINEO** is suitable for both commercial and residential newbuilds, and is also available in tempered and fire-resistant versions.



FINEO

Ultra-thin insulating glass

In terms of thermal insulation, **FINEO** delivers the same performance as triple glazing. Elegant **FINEO glass** is **3 to 4 times thinner** than its triple-glazing counterpart.



FINEO ACOUSTIC

Acoustic insulation

FINEO Acoustic has been specially developed to **create peace and quiet in busy environments** subject to disruptive traffic noise.



FINEO SOLAR CONTROL

Solar control

FINEO Solar Control differs from the standard version in its solar protection. It features a **solar-control coating** that makes **FINEO Solar Control** especially suitable for large glass surfaces and south-facing facades.



FINEO HYBRID

Super-insulating double glazing

FINEO Hybrid delivers a **U-value between 0.4 and 0.5 W/m²K** with a total thickness between 22 and 34 mm. It is the perfect solution for renovating old double glazing, and for new-builds looking for high insulation performance.



FINEO SAFETY

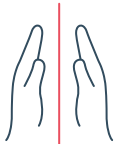
Laminated safety glass

Fineo Safety is qualified 1B1, protecting occupants from falling through. In fact, the glass does not break but splinters into blunt fragments held in place by the safety film. In addition, it delivers **superb acoustic performance**, ensuring maximum hearing protection.



THE BENEFITS OF FINEO

Enjoy maximum indoor comfort and a minimal energy bill. FINEO glass leverages vacuum technology to deliver the same thermal insulation as triple glazing, while providing better acoustic insulation and light transmission.



Thinner

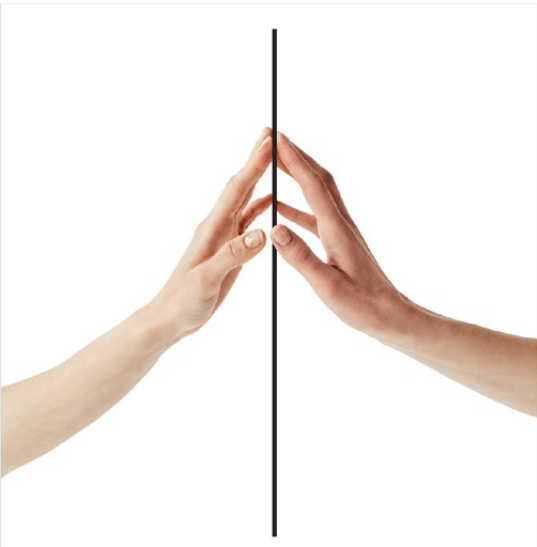
At just **6.7 mm** thick, FINEO glass is more than **three times thinner than double glazing and almost six times thinner than triple glazing**. Since FINEO glazing is so much thinner than conventional products, it fits seamlessly and elegantly into your existing window frames. Whereas with triple glazing they have to be completely replaced.



Lighter

FINEO vacuum glazing is **40% lighter** than triple glazing, ensuring more **environmentally friendly transport** and **easier construction**. FINEO is the perfect solution for retrofitting into existing window frames.

FINEO
LESS
IS MORE



100% recyclable

FINEO vacuum glazing is made exclusively from environmentally friendly, **lead-free, metal-free** and **100% recyclable materials** with **no need to dismantle the product**.



Customised to your needs

FINEO is available in various ranges with unique properties, from **solar control** and **acoustic insulation** to **injury prevention**.



Quick and easy installation

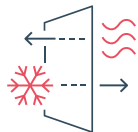
Installing FINEO vacuum insulating glazing is much less labour-intensive than installing triple glazing, which involves dismantling and removing the existing frames.

Since FINEO glass is so thin, you can install it in your existing window frames, which means FINEO is often the most cost-effective alternative.



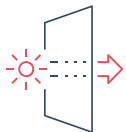
Enhanced acoustic comfort

Vacuum technology has the added benefit of greatly reducing **noise**, especially from the **street**. FINEO glass delivers an **additional 6 decibels of acoustic insulation**, significantly better than double or triple glazing. FINEO Acoustic can **reduce noise by more than 39 dB**, which is 10 dB more than some triple glazing products. A 10 dB reduction means half the noise perceived by the human ear.



Enhanced insulating power and comfort

FINEO glazing delivers a thermal insulation coefficient of **0,7 W/m²K**, equivalent to triple glazing.



Enhanced light transmission

FINEO vacuum glazing lets in **15% more natural light** than triple glazing.

HOW DOES FINEO DIFFER FROM OTHER VACUUM GLAZING PRODUCTS?



The only vacuum glazing produced in Belgium

Since FINEO glass is a **European product manufactured in Belgium**, it prevents the unnecessary pollution entailed by importing vacuum glazing from another part of the world.

The only vacuum glazing with a CE marking

As of 2024, **FINEO** glass is the only vacuum glazing product in Europe that bears the **CE marking**. This marking indicates that **FINEO** meets all EU requirements regarding safety, health and environmental protection.

Full 20-year warranty

FINEO glazing carries a **full 20-year warranty** – at least 5 years more than the standard warranty for insulating glazing.

National certifications

FINEO is the only vacuum glazing with national certifications in Belgium, France, the Netherlands and Germany.

ISO 19916-1:2018

In European countries, these durability tests are mandatory to guarantee durability of at least 10 years. **FINEO** meets and passes these tests. You can verify vacuum glazing warranty conditions via this documentation.

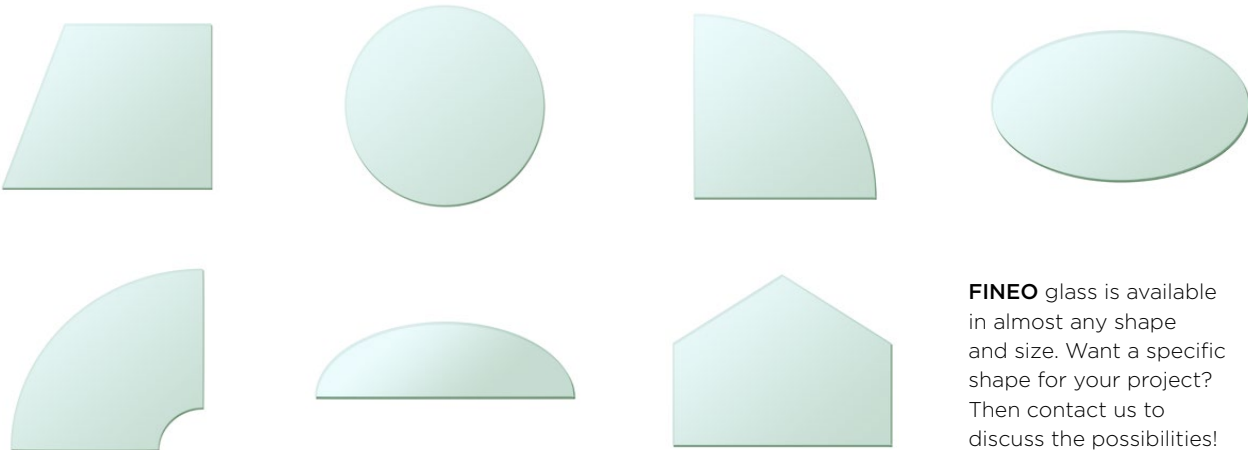
60-year minimum lifetime

AGC has performed multiple cycles of this durability test, achieving a service life of at least **60 years**.

Declaration of Performance

As requested by **CE marking**, Fineo has associated **DOPs (Declaration of Performance)** which state the main performances of the product. The DoPs will give you the build up (e.g. 4mm - void - 4mm + layer) but above all they will give you officially declared performance values verified and validated by the competent authorities.

FINEO IS AVAILABLE IN A WIDE RANGE OF SHAPES AND FREE FORMS



FINEO glass is available in almost any shape and size. Want a specific shape for your project? Then contact us to discuss the possibilities!

KEY FIGURES

	FINEO 8	FINEO ACOUSTIC 39 dB v406	FINEO 8 SC 73/39	FINEO SAFETY 8 v101	FINEO 10 HYBRID	FINEO HERITAGE	Single glazing	Double glazing	Triple glazing
U-value (W/m²K)	0,7	0,7	0,7	0,7	0,5	0,7	5,8	1	0,6
Internal glazing temperature (°C) outside t° of -10°C inside t° of 20°C	17,5	17,5	17,5	17,5	19,5	17,5	-	-	-
Light transmission (%)	79	78	73	77	63	78	90	73	66
Solar heat gain factor	61	58	41	57	33	58	88	38	35
Attenuation of traffic noise (dB)	30	36	30	38	33	36	26	26	27
Rw (C; Ctr) (dB)	35(-2;-5)	39(-1;-3)	35(-2;-5)	41(-1;-3)	36(-2;-3)	39(-1;-3)	30(-2;-4)	30(-1;-4)	33(-2;-6)
Thickness (MM)	7,7	11,3	7,7	14,1	26	11,3	4	23	42



FINEO FOR EVERY TYPE OF PROJECT

FINEO APPLICATIONS



Renovation

Do you want to keep existing window frames and only replace the glass? Now you can with **ultra-thin FINEO vacuum glazing!** FINEO glass can be fitted into any window frame, which means you can opt for the **highest-performing** insulating glazing without requiring intensive demolition work. Moreover, **FINEO** can be **installed quickly and easily**, saving you even more time and money.

Still want to replace your windows? No problem, because **FINEO** offers an **ultra-modern range** of custom **window and facade systems**. **FINEO** also works with a network of **certified installers** who are compliant with future renovation requirements.



Newbuilds

For newbuild projects, the growing demand for energy efficiency in buildings requires intelligent and innovative solutions in terms of durability, sustainability, technology and design. Here, **FINEO** paves the way.

Considering stylish **FINEO insulating glazing** in elegant, minimalist window frames for your future construction project? We've got you covered! **FINEO** works with the market's leading window frame makers. Whether you opt for aluminium, wood or PVC, we offer you a splendid range of state-of-the-art window solutions.



Restoration

Want to make a historic building more sustainable while **preserving its essential features**, such as the characteristic windows in the facades? Then choose **FINEO**. The glass fits perfectly into frames for single glass and **can also be combined with monumental glazing**. This enables you to easily boost **energy performance** while keeping the original appearance.





FINEO
FOR
RENOVATION
PROJECTS

FINEO insulating glazing delivers the highest performance and is quick and easy to install. No intensive demolition work is needed.

KEEP YOUR FRAMES, JUST REPLACE THE GLASS

Are your window frames still in good condition?
With FINEO you don't have to replace them!

FINEO glass can be fitted into any window frame, which means you can opt for the highest-performing insulating glazing without requiring intensive demolition work. Moreover, **FINEO** can be installed quickly and easily, saving you even more time and money.

Still want to replace your windows?

Our Premium Partners offer you an ultra-modern range of custom window and facade systems featuring **FINEO** vacuum glazing. Whichever material you prefer – aluminium, PVC, wood or stainless steel – there is an elegant system for your **FINEO** glazing.



FINEO was used to renovate this beautiful villa in Brussels. The single glazing was replaced with **FINEO**, making it possible to keep the original frames.

The old-style window frames were kept during the renovation to ensure the house preserved its original character.



Watch the project video
on our website!



DELIVERING THERMAL INSULATION WHILE PRESERVING HISTORIC WINDOWS IN PROTECTED FACADES

Buildings absolutely must have good thermal insulation. And this includes historic, protected buildings. But insulating a protected facade is quite a challenge, especially if the original window frames have to be preserved.

FINEO Heritage is the perfect solution: an **ultra-thin glass sheet** with a **superb U-value** that fits perfectly in frames designed for single glass. You can choose from **five types of restoration glass** for a finish that perfectly matches the original, historic appearance of the building.

FINEO
FOR
RESTORATION
PROJECTS



'The Noblemen' is a boutique hotel housed in a historic building dating back to 1663. It was renovated with a view to offering guests the very highest level of comfort.

The technologies used to heat and cool the rooms in winter and summer require the building to have superb insulating properties.

FINEO Heritage was used to restore the original windows, enhancing thermal and acoustic insulation while preserving the facade's historic appearance.

FINEO Heritage glass offers a wide range of glass products that fit the character of buildings dating from the late 19th century to 1960 and beyond.

Period	FINEO Heritage Series
1880 to 1920	Traditional Light
1920 to 1960	Classic Light, Classic, Classic Strong
Since 1960	Modern

Improve the insulation of your historic buildings while preserving their authenticity.



Watch the project video on our website!



READY FOR FUTURE REQUIREMENTS

For newbuild projects, the growing demand for **energy efficiency** in buildings requires intelligent and innovative solutions in terms of **durability, sustainability, technology and design**. Until now, facades were tending to become thicker.

This in turn increased the total facade volume and weight: thicker insulation and glazing – first double and later triple. Today, the opposite is the case, with efforts being made to make building envelopes thinner.

FINEO is contributing to this trend by delivering thinner glazing, thus reducing the boundary between indoor and outdoor spaces. **FINEO** provides facade builders with a concept they can use to design **new energy-efficient buildings**.

FINEO FOR NEWBUILD PROJECTS



For this project, **FINEO Hybrid** was used to achieve unparalleled performance in terms of **thermal and acoustic insulation**. Rue Belliard in Brussels is a busy road, which means plenty of unpleasant noise pollution.

FINEO Hybrid delivered **superb acoustic insulation** in a **limited thickness**, making it possible increase space inside the building.

Unparalleled thermal insulation and acoustic performance, with a thinner building envelope.



Watch the project video on our website!

FINEO

THE MOST SUSTAINABLE SOLUTION

ECOLOGICALLY RESPONSIBLE LIVING

100% recyclable and lead-free

FINEO glass is **100% recyclable**. It can be fully recycled and reused at the end of its life cycle to produce a new **high-quality FINEO product**.

All materials used, including the edge, can be returned to the glass furnace. This is only possible when a product is made entirely from **environmentally friendly** and **lead-free materials**.

Made in Belgium

Since **FINEO** glass is **manufactured** and installed **in Europe**, it **prevents the unnecessary pollution** entailed by importing vacuum glazing produced in another part of the world.



Reduce your fossil fuel footprint

Excellent thermal insulation and optimal use of **solar heat** mean less energy is required for heating. Not only do you save on increasingly scarce fossil fuels, but you also reduce emissions of nitrogen and particulates.

FINEO: aligned with the UN Sustainable Development Goals

In 2015, the **United Nations** established 17 Sustainable Development Goals to help **countries and companies worldwide grow economically while keeping an eye on the planet**. FINEO actively helps to achieve these goals



Cradle to Cradle® evaluates the **overall sustainability** of a product throughout its life cycle. This certificate not only focuses on product quality, but also on **positive economic, ecological and social impacts**.

To be certified, the product must meet strict requirements in the following five areas: material health, product circularity, clean air and climate protection, water and soil stewardship, and social fairness. **FINEO** is made from AGC's base glass, which is Cradle to Cradle Certified®.



Certificates

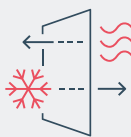
Thanks to its investments in sustainability, **FINEO** has earned the following certificates as of 2025: The **Environmental Product Declaration** is a certificate in which a company scientifically maps out the climate impact of its products by means of a **Life Cycle Analysis**.

This enables a company to prove that it operates in an environmentally friendly manner.

* Cradle to Cradle Certified® is a registered trademark of the Cradle to Cradle Products Innovation Institute.

WHAT MAKES FINEO UNIQUE?

MORE INSULATION



HIGHER INSULATING POWER
AND GREATER COMFORT
($U_g = 0,7 \text{ W/m}^2\text{K}$)

MORE NOISE REDUCTION



EXTENSIVE RANGE FOR
GREATER ACOUSTIC COMFORT
($RW (C;CTR) = (from 35(-2;-3))$)

MORE DAYLIGHT



ENHANCED LIGHT
TRANSMISSION
($LT = 80\%$)

GREATER POTENTIAL



CUSTOMISED FOR
EVERY NEED

MORE WARRANTY



FULL 20-YEAR
WARRANTY

MOST SUSTAINABLE



LEAD AND METAL-FREE
100% RECYCLABLE
(without dismantling)

+60-YEAR MINIMUM LIFETIME



MADE IN BELGIUM



CE MARKING



FINEO works exclusively with certified installers.



Your installer:

