

AGC LOW-CARBON GLASS

Our glass range with a reduced carbon footprint

The AGC logo is displayed in a white rectangular box. It consists of the letters 'AGC' in a bold, blue, sans-serif font. A small red square is positioned between the 'A' and the 'G'.

Your Dreams, Our Challenge

The name says it all

— LOW-CARBON GLASS —

Low-Carbon Glass is the latest innovation in our glass range, boasting a significantly reduced carbon footprint.

To produce Low-Carbon Glass, we took a holistic approach to every part of the manufacturing process in order to optimise CO₂ emissions, not only before and during the production process itself, but up to and including delivery to the customer. Through this in-depth process we developed Low-Carbon Planibel Clearlite, our low-carbon float glass whose carbon footprint has been slashed by 40%.

Low-Carbon Planibel Clearlite looks identical to and delivers the exact same performance as standard Planibel Clearlite float glass. It can be laminated or coated with solar control or thermal insulation coatings and can be processed into double and triple glazing units.

Embrace the future of glass by adopting the new normal: AGC Low-Carbon Glass.



AGC's integrated Low-Carbon Glass production value chain slashes the carbon footprint of our float glass by 40%.

4 mm Low-Carbon Planibel Clearlite

7 kg CO₂ eq/m²

4 mm Planibel Clearlite

12.7 kg CO₂ eq/m²

Different yet the same

— LOW-CARBON GLASS —

What's so special about it?

What does it mean for you?

Same performance and quality as standard AGC glass ranges

— Low-Carbon Glass delivers the exact same technical performance as standard AGC glass.

Looks exactly the same as standard float glass

— Low-Carbon Glass does not compromise on aesthetics. It looks exactly the same as standard AGC glass.

Significantly less embodied carbon

— A circular and sustainably produced product. Ideal for low-carbon buildings and for reducing a company's carbon footprint.

Easy processing

— Low-Carbon Glass can be processed in the exact same way as standard float glass.

A full product range

— Low-Carbon Planibel Clearlite (glass substrate)

> laminated version:

Low-Carbon Stratobel,
Low-Carbon Stratophone

> low-e coating version:

Low-Carbon iplus

> solar control coating version:

Low-Carbon Stopray,
Low-Carbon Energy

> DGUs and TGUs



Low-Carbon Glass

THE HOLISTIC APPROACH

AGC has tackled CO₂ emissions at every stage in the production process, resulting in drastically lower emissions and an environmentally cleaner product:

1 SUSTAINABLY SOURCED RAW MATERIALS



2 HIGHLY EFFICIENT MELTING FURNACES



3 INCREASED USE OF CULLET



4 GREEN ENERGY SOURCES

5 OPTIMISED TRANSPORT BETWEEN GROUP SITES FOR FINISHING PROCESSES



6 OPTIMISED TRANSPORT FOR FINISHED PRODUCTS

Watch the video



AGC Low-Carbon Glass is available as:

-  Monolithic clear float glass — Low-Carbon Planibel Clearlite
-  Laminated safety and acoustic glass — Low-Carbon Stratobel and Low-Carbon Stratophone
-  Thermal insulation glass — Low-Carbon iplus 1.1 and Low-Carbon iplus 1.0
-  Solar control glass — Low-Carbon Stopray and Low-Carbon Energy

- > Available in usual thicknesses ranging from 3 mm to 10 mm
- > Available in Low-Carbon T version - on demand - for low-e and solar control coatings
- > Can be assembled into DGUs and TGUs (Low-Carbon Thermobel)

Carbon footprint (GWP)

Global Warming Potential (GWP)		Cradle to Grave [kg CO ₂ eq/m ²]			Cradle to Gate [kg CO ₂ eq/m ²]
		AGC standard glass GWP ⁽¹⁾	AGC Low-Carbon Glass estimated GWP	% reduction	AGC Low-Carbon Glass estimated GWP
Low-Carbon Planibel Clearlite	4 mm	12,7	7,0	-45%	6,4
Low-Carbon Stratobel	33.1	22,2	13,1	-41%	11,9
Low-Carbon Stratobel	44.2	30,9	18,7	-39%	17,2
Low-Carbon iplus 1.1	4 mm	13,8	7,4	-46%	6,6
Low-Carbon Energy 72/38	6 mm	23,6	11,8	-50%	11,0
Low-Carbon Stopray Vision range	6 mm	23,6	11,8	-50%	11,0
Low-Carbon Thermobel Vision range ⁽²⁾	6/15/4 mm	57	31	-46%	27
Low-Carbon Thermobel Energy 72/38 ⁽²⁾	6/15/4 mm	57	31	-46%	27
Low-Carbon Thermobel iplus 1.1 ⁽²⁾	4/15/4 mm	44	25	-44%	21

(1) GWP value from our current EPD or extrapolation from those values
 (2) no T version

Values to be considered within following frame conditions:

(1) Global Warming Potential (GWP) is expressed both for Cradle to Gate (A1-A3) or Cradle to Grave (A-B-C) impacts as defined in NF EN 15804+A2:2018; (2) GWP values for Low-Carbon Planibel Clearlite are self-declared values based on impacts modelled using data collected during production campaign(s), verified data from our current EPD and renewable electricity, calculated within Life Cycle Assessment model; (3) GWP values for Low-Carbon Stratobel, Stratophone, iplus, Energy, Stopray ranges are self-declared values calculated from Low-Carbon Planibel Clearlite substrate(s) GWP and estimated transformation impact on climate change, modelled with primary data from AGC production sites, as well as verified data from our current EPD, and considering renewable electricity; (4) Estimated GWP values for IGU range are average values estimated from AGC Low-Carbon Glass transformed with IGU production yield ranging between 75% to 85% with use of warm-edge spacers only and renewable electricity (wind) for the IGU production. Corresponding EPD, Third-Party verified, and produced according to the standards NF EN 15804+A2:2018 and the French national complement NF EN15804/CN:2022, are under development and will be issued current 2023.

We'll never be as natural as nature, but we're getting closer.



9001346 EN - 11/2022

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