

Calculated by Koen Verschuuren Calculated on 6 JUNE 2025 Country Netherlands

1 3 mm Planibel Clearvision Thermally toughened

Glass performance data simulation

Light properties - EN 410	
Light transmittance: τν [%]	92
External light reflection: ρv [%]	8
Internal light reflection: pvi [%]	8
Colour rendering index : Ra [%]	100
Chergy properties - EN 410	
Total solar energy transmittance : g [%]	91
External energy reflection : pe [%]	8
Internal energy reflection : pei [%]	8
Direct energy transmission: τe [%]	91
Total energy absorption : ae [%]	1
Shading coefficient: SC	1.05
UV transmission : τυν [%]	87
Selectivity	1.01

≥ Environmental properties	
Cradle to Gate – Global warming potential: Module A1-A3 : [kg CO2 eq. /m²] 1	11.4
↓ Thermal properties - EN 673	
Thermal transmittance (vertical glazing) : U value [W/(m².K)]	5.8
Acoustic properties	
Direct airborne sound reduction - EN 12758 : Rw (C;Ctr) [dB] 2	29 (-2;-5)
♦ Safety properties	
Resistance to fire - EN 13501-2	NPD
Reaction to fire - EN 13501-1	A1
Bullet resistance - EN 1063	NPD
Burglar resistance - EN 356	NPD
Pendulum body impact resistance - EN 12600	NPD
Explosion resistance - EN 13541	NPD

^{2.} The sound reduction indexes correspond to glazing with dimensions 1230 mm by 1480 mm according to EN ISO 10140-3 and are tested in laboratory conditions. In-situ performances may vary according to the effective glazing dimensions, supporting system, installation, environment, noise sources etc. The accuracy of the given indexes is +/- 1 dB.



Glass Configurator Calculation software verified by INISMa EN 410 and EN 673 Report n° 2024B COU 48790



Several AGC products are now available in Low-Carbon Glass version. The Low-Carbon Glass version does not affect the properties of the above glass configuration. For more info about the AGC Low-Carbon Glass range, please visit our YourGlass page.

Thickness and weight

Nominal thickness: [mm]

Weight: [kg/m²]

The AGC Glass Configurator is a simulation tool providing a performance analysis for the limited purpose of assisting the user in evaluating the performance of the glass configuration identified in this report. The interpolated performance is only applicable for glass products manufactured or processed by AGC. It does not replace an official Declaration of Performance and therefore may contain some variations, although AGC has made every effort to verify the reliability of this simulation tool. The user assumes any risk relating to the results provided by the tool and is solely responsible for the selection of the appropriate glass configuration for the user's application.

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3.0

^{1.} This value represents the global warming potential (GWP) associated with the production of the configured glass product. This value covers the entire production phase (module A1 to A3); no other stage in the product's life cycle is included in this value. This GWP value is calculated according to the modelling principles defined in EN 15804+A2:2019. A comparison of the environmental performance of construction products using EPD information must be based on the use of the products and their impact on the building, and must consider the entire life cycle (all information modules), which can be obtained via the full EPD.