Calculated by	mikheil kalandadze	Calculated on	30 OCTOBER 2025	Country	Georgia
Personal note	Mr. Sharashidze				

① 10 mm Planibel Linea Azzurra Thermally toughened ② 16 mm Argon 90% ③ Pyrobel-T EI60-28 Thermally toughened

Glass performance data simulation

Declaration of Performance (DoP)

Direct airborne sound reduction : Rw (C;Ctr) [dB]	**NPD**
CE_HARMONIZED_STANDARD	**EN 1279-5:2018**
Resistance against sudden temperature changes and temperature differentials : [K]	**NPD / NPD**
Wind, snow, permanent and imposed load resistance	**120 - NPD**
DECLARED_EMISSIVITY	**NPD**
DECLARED_EMISSIVITY_PRIME	**NPD**
External fire performance	**NPD**
External light reflection : ρv	**0.13**
Light transmittance : τv	**0.70**
External energy reflection : ρe	**0.11**
Total solar energy transmittance : g	**0.65**
Internal energy reflection : ρ'e	**0.09**
Internal light reflection : ρ'v	**0.12**
Solar factor prime : g'	**NPD**
Solar direct transmittance : τe	**0.44**

Light properties - EN 410

Light transmittance : τv [%]	**70**
External light reflection : ρv [%]	**13**
Internal light reflection : ρvi [%]	**12**
Colour rendering index : Ra [%]	**94**

Energy properties - EN 410

Total solar energy transmittance : g [%]	**65**
External energy reflection : ρe [%]	**11**
Internal energy reflection : ρei [%]	**9**
Direct energy transmission : τe [%]	**44**
Energy absorption glass 1 : αe1 [%]	**17**
Energy absorption glass 2 : αe2 [%]	**28**
Total energy absorption : αe [%]	**45**
Shading coefficient : SC	**0.75**
UV transmission : τuv [%]	**25**
Selectivity	**1.08**

Environmental properties

Cradle to Gate – Global warming potential: Module A1-A3 : [kg CO2 eq. /m²] 1	**NPD**

Thermal properties - EN 673

Thermal transmittance (vertical glazing) : U value [W/(m².K)]	**2.4**

Thermal resistance - GOST EN 673-2016

Rc [m².K/W] - Moscow (-25/20°C)	**0.40**
Rc [m².K/W] - Saint-Petersburg, Vladivostok (-24/20°C)	**0.40**
Rc [m².K/W] - Ekaterinburg, Nizhny Novgorod, Kazan (-32/20°C)	**0.40**
Rc [m².K/W] - Tyumen, Irkutsk, Chelyabinsk (-35/20°C)	**0.40**
Rc [m².K/W] - Novosibirsk (-37/20°C)	**0.40**
Rc [m².K/W] - Surgut (-43/20°C)	**0.40**

Acoustic properties

Direct airborne sound reduction - EN 12758 : Rw (C;Ctr) [dB] 2	**NPD**

Safety properties

Resistance to fire - EN 13501-2	**EI 60**
Reaction to fire - EN 13501-1	**NPD**
Bullet resistance - EN 1063	**NPD**
Burglar resistance - EN 356	**NPD**
Pendulum body impact resistance - EN 12600	**1B1**
Explosion resistance - EN 13541	**NPD**

Thickness and weight

Nominal thickness : [mm]	**54.0**
Weight : [kg/m²]	**85**

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.

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.

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