

Calculated by Andre Geffke      Calculated on 11/15/2022      Country Germany  
 Personal note GERMAN WINDOWS / 6 mm lowE- 12 mm AIR- 6 mm

Thermobel:

① 6 mm Planibel A pos.2 Annealed    ② 12 mm Air 100%    ③ 6 mm Planibel Clearlite Annealed

## Glass performance data simulation

### ☀ Light properties - EN 410

Light transmittance : $\tau_v$ [%]	72
External light reflection : $\rho_v$ [%]	15
Internal light reflection : $\rho_{vi}$ [%]	17
Colour rendering index : Ra [%]	98

### 🔥 Energy properties - EN 410

Total solar energy transmittance : g [%]	63
External energy reflection : $\rho_e$ [%]	14
Internal energy reflection : $\rho_{ei}$ [%]	16
Direct energy transmission : $\tau_e$ [%]	58
Energy absorption glass 1 : $\alpha_{e1}$ [%]	23
Energy absorption glass 2 : $\alpha_{e2}$ [%]	5
Total energy absorption : $\alpha_e$ [%]	28
Shading coefficient : SC	0.72
UV transmission : $\tau_{uv}$ [%]	34
Selectivity	1.14

### 🔥 Thermal properties - EN 673

Thermal transmittance (vertical glazing) : U value [W/(m <sup>2</sup> .K)]	1.8
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### 🔊 Acoustic properties

Direct airborne sound reduction - EN 12758 : Rw (C;Ctr) [dB] <sup>1</sup>	31 (-1;-3)
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### 🛡 Safety properties

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

### 📏 Thickness and weight

Nominal thickness : [mm]	24.0
Weight : [kg/m <sup>2</sup> ]	30

<sup>1</sup> 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° 2018B COU 35741

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