

**Your composition:**

4 mm Planibel Clear - 12 mm Air 100% - 4 mm Planibel Clear

Personal notes:

**LIGHT**

Transmission	81
Reflection	15

**ENERGY**

Solar factor	77
Reflection	13



**LIGHT PROPERTIES (EN 410)**

	EN 410
Light Transmission - $\tau_v$ (%)	81
Light Reflection - $\rho_v$ (%)	15
Internal light reflection - $\rho_{vi}$ (%)	15
Colour Rendering - RD65 - $R_a$ (%)	98

**ENERGY PROPERTIES**

	EN 410	ISO 9050
Solar factor - $g$ (%)	77	77
Energy Reflection - $\rho_e$ (%)	13	13
Direct Energy Transmission - $\tau_e$ (%)	72	72
Solar abs. Glass 1 - $\alpha_e$ (%)	9	9
Solar abs. Glass 2 - $\alpha_e$ (%)	6	6
Total Energy absorption - $\alpha_e$ (%)	15	15
Shading coefficient - SC	0.89	0.89
UV Transmission - UV (%)	50	
Selectivity	1.05	1.05

**OTHER 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

**ACOUSTIC PROPERTIES**

Direct airborne sound insulation( $R_w$ (C;Ctr) - EN 12758) - dB	29 (-1; -3) <sup>(1)</sup>
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**THICKNESS AND WEIGHT**

Nominal thickness (mm)	20
Weight (kg/m <sup>2</sup> )	20

THERMAL PROPERTIES (EN 673)	EN 673
U <sub>g</sub> -Value - W/(m <sup>2</sup> .K)	2.9

The data are calculated using spectral measurements that are conform to standards EN 410, ISO 9050 (1990) and WIS/WINDAT. The U<sub>g</sub>-value (formerly k-value) is calculated according to standard EN 673. The emissivity measurement complies with standards EN 673 (Annex A) and EN 12898.

This document is no evaluation of the risk of glass breakage due to thermal stress. For tempered glass: the risk of spontaneous breakage due to Nickel-Sulfide is not covered by AGC Glass Europe. The Heat Soak Test is available on request.

Specifications, technical and other data are based on information available at the time of preparation of this document and are subject to change without notice. AGC Glass Europe can not be held responsible for any deviation between the data introduced and the conditions on site. This document is only informative, in no way it implies an acceptance of the order by AGC Glass Europe.

See also conditions of use.

<sup>(1)</sup>These sound reduction indexes correspond to glazings which are 1,23 by 1,48m according to EN ISO 10140-3 and are tested in laboratory conditions. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources etc. The accuracy of the given indexes is not better than +/- 1dB.

<sup>(2)</sup>These sound reduction indexes are estimated (no test).They correspond to glazings which are 1,23m. by 1,48 m. In-situ performances may vary according to the effective glazing dimensions, frame system, noise sources etc. The accuracy of the given indexes is +/- 2dB.