

Your composition:

Thermobel Top: 33.1 Stratobel 2x Planibel Clearlite - 15 mm Argon 90% - 33.1 Stratobel iplus Top 1.1 on Clearlite + Planibel Clearlite pos.3

Personal notes:

LIGHT

Transmission	80
Reflection	12

ENERGY

Solar factor	59
Reflection	24



LIGHT PROPERTIES

EN 410

Light Transmission - $\tau_v$ (%)	80
Light Reflection - $\rho_v$ (%)	12
Internal light reflection - $\rho_{vi}$ (%)	12
Colour Rendering - RD65 - Ra (%)	97

ENERGY PROPERTIES

EN 410

ISO 9050

Solar factor - g (%)	59	56
Energy Reflection - $\rho_e$ (%)	24	25
Direct Energy Transmission - $\tau_e$ (%)	52	49
Solar abs. Glass 1 - $\alpha_e$ (%)	17	19
Solar abs. Glass 2 - $\alpha_e$ (%)	7	7
Total Energy absorption - $\alpha_e$ (%)	24	26
Shading coefficient - SC	0.68	0.64
UV Transmission - UV (%)	0	
Selectivity	1.36	1.43

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	2B2 / 2B2

ACOUSTIC PROPERTIES

Direct airborne sound insulation( $R_w$ (C;Ctr) - ESTIMATED) - dB	36 (-1; -5) <sup>(2)</sup>
With acoustic PVB (Stratophone) ( $R_w$ (C;Ctr)) - dB	42 (-2; -7) <sup>(2)</sup>

THICKNESS AND WEIGHT

Nominal thickness (mm)	27.76
Weight (kg/m <sup>2</sup> )	31

THERMAL PROPERTIES

EN 673

Ug-Value - W/(m <sup>2</sup> .K)	1.1
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The data are calculated using spectral measurements that are conform to standards EN 410, ISO 9050 (1990) and WIS/WINDAT. The Ug-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.

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<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.