

**Your composition:**

4 mm Planibel Clear - 12 mm Argon 85% - 4 mm Planibel Low-e A pos.3

Personal notes:

**LIGHT**

|              |    |
|--------------|----|
| Transmission | 72 |
| Reflection   | 17 |

**ENERGY**

|              |    |
|--------------|----|
| Solar factor | 72 |
| Reflection   | 16 |



**LIGHT PROPERTIES (EN 410)**

|   | EN 410 |
|---|--------|
| Light Transmission - $\tau_v$ (%)           | 72     |
| Light Reflection - $\rho_v$ (%)             | 17     |
| Internal light reflection - $\rho_{vi}$ (%) | 15     |
| Colour Rendering - RD65 - $R_a$ (%)         | 98     |

**ENERGY PROPERTIES**

|   | EN 410 | ISO 9050 |
|---|--------|----------|
| Solar factor - $g$ (%)                    | 72     | 71       |
| Energy Reflection - $\rho_e$ (%)          | 16     | 17       |
| Direct Energy Transmission - $\tau_e$ (%) | 58     | 56       |
| Solar abs. Glass 1 - $\alpha_e$ (%)       | 9      | 10       |
| Solar abs. Glass 2 - $\alpha_e$ (%)       | 17     | 17       |
| Total Energy absorption - $\alpha_e$ (%)  | 26     | 27       |
| Shading coefficient - SC                  | 0.83   | 0.82     |
| UV Transmission - UV (%)                  | 35     |          |
| Selectivity                               | 1      | 1        |

**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> |
|--|----------------------------|

**THICKNESS AND WEIGHT**

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

| THERMAL PROPERTIES (EN 673)      | EN 673 |
|----------------------------------|--------|
| Ug-Value - W/(m <sup>2</sup> .K) | 1.5    |

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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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.