

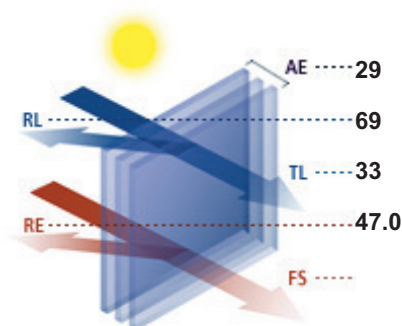
## 4 mm Planibel Top N+ pos.2 - 12 mm Argon 90% - 4 mm Planibel Clear - 12 mm Argon 90% - 4 mm Planibel Top N+ pos.5

### Thermal properties (EN 673)

|                     |     |
|---------------------|-----|
| Ug-Value (W/(m².K)) | 0.7 |
|---------------------|-----|

### Light properties (EN 410)

|  |    |
|--|----|
| Light Transmission (t <sub>v</sub> )         | 69 |
| Light Reflection (r <sub>v</sub> )           | 17 |
| Internal light reflection (r <sub>vi</sub> ) |    |
| Colour Rendering - RD65 (R <sub>a</sub> )    | 96 |



### Energy Properties

|  | EN 410 | ISO 9050 |
|--|--------|----------|
| Direct Energy Transmission (t <sub>e</sub> ) | 39     | 37       |
| Energy Reflection (r <sub>e</sub> )          | 33     | 35       |
| Total Energy absorption (a <sub>e</sub> )    | 29     | 29       |
| Solar abs. Glass 1 (a <sub>e</sub> (1) )     | 18     | 19       |
| Solar abs. Glass 2 (a <sub>e</sub> (2) )     | 5      | 5        |
| Solar abs. Glass 3 (a <sub>e</sub> (3) )     | 6      | 5        |
| Solar factor (g)                             | 47.0   | 44.0     |
| Shading coefficient (SC)                     | 0.54   | 0.51     |
| UV Transmission (UV)                         | 9      |          |
| Schattenfaktor (DE) (b-Faktor)               |        | 55.0     |

### 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 / NPD |
| Direct airborne sound insulation (ESTIMATED - R <sub>w</sub> (C;Ctr): dB) | 32 (-1, -6)     |

### Remarks

The data are calculated using spectral measurements that are conform to standards EN 410 (1998), 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.

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.