



**GUARDIAN EUROPE Sàrl**  
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Product Category : Coated Glass - Low Emissivity Glass

TYPE:

PRODUCT:

## ClimaGuard® Premium2

EN 1096-4:2018

Coated soda lime silicate glass intended to be used in buildings and construction works values as of June 2016

|   |     | 03mm        | 04mm        | 05mm        | 06mm        | 08mm        | 10mm        | 12mm        |
|---|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Resistance to fire test (EN 13501-2)  |     | NPD         |
| Reaction to fire (EN 13501-1)   |     | A1          |
| External fire performance (EN 13501-5)                                      |     | NPD         |
| Bullet resistance (EN 1063)   |     | NPD         |
| Explosion resistance (EN 13541)   |     | NPD         |
| Burglar resistance (EN 356)   |     | NPD         |
| Pendulum body impact resistance (EN 12600)                                  |     | NPD         |
| Resistance against sudden temperature changes and temperature differentials | K   | 40          | 40          | 40          | 40          | 40          | 40          | 40          |
| Wind, snow, permanent and imposed load resistance                           | mm  | 3           | 4           | 5           | 6           | 8           | 10          | 12          |
| Characteristic Bending Strength   | MPa | 45          | 45          | 45          | 45          | 45          | 45          | 45          |
| Direct airborne sound insulation (EN 12758)                                 | dB  | 28 (-1;-4)  | 29 (-2;-3)  | 30 (-1;-2)  | 31 (-2;-3)  | 32 (-2;-3)  | 33 (-2;-3)  | 34 (0;-2)   |
| <b>Thermal properties</b>   |     |             |             |             |             |             |             |             |
| Normal emissivity of coated glass surface εn (EN 12898)                     |     | 0.03        | 0.03        | 0.03        | 0.03        | 0.03        | 0.03        | 0.03        |
| <b>Radiation properties</b>   |     |             |             |             |             |             |             |             |
| Light transmission τV (EN 410)  |     | 0.90        | 0.90        | 0.90        | 0.89        | 0.89        | 0.89        | 0.88        |
| Light reflection (coated side / glass side) ρV (EN 410)                     |     | 0.05 / 0.06 | 0.05 / 0.06 | 0.05 / 0.06 | 0.05 / 0.06 | 0.05 / 0.06 | 0.05 / 0.06 | 0.05 / 0.06 |
| Solar energy transmission τE (EN 410)                                       |     | 0.66        | 0.65        | 0.64        | 0.64        | 0.63        | 0.61        | 0.60        |
| Solar energy reflection (coated side / glass side) ρE (EN 410)              |     | 0.27 / 0.25 | 0.27 / 0.24 | 0.27 / 0.23 | 0.27 / 0.22 | 0.27 / 0.21 | 0.27 / 0.19 | 0.27 / 0.18 |
| Solar factor (coated side / glass side) g (EN 410)                          |     | 0.67 / 0.67 | 0.67 / 0.67 | 0.66 / 0.66 | 0.66 / 0.66 | 0.65 / 0.65 | 0.64 / 0.64 | 0.63 / 0.63 |
| Durability (EN 1096)  |     | C           | C           | C           | C           | C           | C           | C           |

NPD = No Performance Determined



All values are nominal values and subject to product tolerances. Disclaimer: The information contained in this publication is a general description of glass products and GUARDIAN hereby disclaims all liability howsoever arising from any inaccuracy in or omissions from this publication and all the consequences of relying on it. It is the responsibility of the users of this information to ensure that the intended application of glass products is appropriate and complies with all relevant laws, regulations, standards, codes of practices and other requirements.