



The **ESSENTIAL**

*to choose  
the right energy  
efficient glazing*

| PRODUCT                                      | Light Transmittance LT (%) | Solar Factor g-value | Shading Coefficient SC | Selectivity LT/g | External Light Reflectance LRe (%) | Internal Light Reflectance LRI (%) | U-Value (EN 673) W/(m <sup>2</sup> .K) |            | Possible use as single glazing (coating on surface #) | Processing             |                                       |  |                |                                | Maximum size (cm)    |
|--|----------------------------|----------------------|------------------------|------------------|------------------------------------|------------------------------------|--|------------|---|------------------------|---------------------------------------|--|----------------|--------------------------------|----------------------|
|  |                            |                      |                        |                  |                                    |                                    | 12mm air                               | 16mm argon |   | To be tempered coating | Temperable coating (one single stock) | Lamination (coating on #2 inside the laminate) | Bending        | Screen-printing and enamelling |                      |
| <b>NEUTRAL</b>                               |                            |                      |                        |                  |                                    |                                    |  |            |   |                        |                                       |  |                |                                |                      |
| SGG COOL-LITE XTREME 60/28                   | 60                         | 0.27                 | 0.31                   | 2.22             | 14                                 | 17                                 | 1.5                                    | 1.0        |   | XTREME 60/28 II        |                                       |  |                |                                | 600×321 <sup>5</sup> |
| SGG COOL-LITE XTREME 50/22 II                | 50                         | 0.22                 | 0.25                   | 2.27             | 17                                 | 21                                 | 1.5                                    | 1.0        |   | XTREME 50/22 II        |                                       |  |                |                                | 600×321 <sup>5</sup> |
| SGG COOL-LITE SKN 174                        | 69                         | 0.39                 | 0.45                   | 1.77             | 11                                 | 13                                 | 1.6                                    | 1.1        |   | SKN 174 II             |                                       | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> |                                | 600×321 <sup>5</sup> |
| SGG COOL-LITE SKN 165                        | 60                         | 0.32                 | 0.37                   | 1.88             | 16                                 | 17                                 | 1.5                                    | 1.0        |   | SKN 165 II             |                                       | ✓ <sup>2</sup>                                 |                |                                | 600×321              |
| SGG COOL-LITE SKN 163 II                     | 58                         | 0.33                 | 0.38                   | 1.76             | 15                                 | 17                                 | 1.6                                    | 1.1        |   | SKN 163 II             |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE SKN 154                        | 50                         | 0.26                 | 0.30                   | 1.92             | 18                                 | 22 <sup>4</sup>                    | 1.5                                    | 1.0        |   | SKN 154 II             |                                       | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> |                                | 600×321 <sup>5</sup> |
| SGG COOL-LITE SKN 144 II                     | 40                         | 0.23                 | 0.26                   | 1.74             | 20                                 | 12                                 | 1.6                                    | 1.1        |   | SKN 144 II             |                                       |  |                |                                | 600×321              |
| SGG COOL-LITE KNT 164                        | 57                         | 0.45                 | 0.51                   | 1.27             | 14                                 | 10                                 | 1.9                                    | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG COOL-LITE KNT 155                        | 47                         | 0.36                 | 0.42                   | 1.31             | 17                                 | 10                                 | 1.9                                    | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG COOL-LITE KNT 140                        | 37                         | 0.27                 | 0.31                   | 1.37             | 23                                 | 12                                 | 1.8                                    | 1.3        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG COOL-LITE KN 170 II                      | 60                         | 0.41                 | 0.47                   | 1.46             | 13                                 | 11                                 | 1.7                                    | 1.2        |   | KN 170 II              |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE KN 165 II                      | 58                         | 0.40                 | 0.46                   | 1.45             | 19                                 | 13                                 | 1.7                                    | 1.2        |   | KN 165 II              |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE KN 160 II                      | 51                         | 0.36                 | 0.42                   | 1.42             | 19                                 | 12                                 | 1.7                                    | 1.2        |   | KN 160 II              |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE KN 153 II                      | 46                         | 0.33                 | 0.38                   | 1.39             | 14                                 | 13                                 | 1.7                                    | 1.2        |   | KN 153 II              |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE E 150 II                       | 45                         | 0.41                 | 0.48                   | 1.10             | 15                                 | 17                                 | 2.6                                    | 2.3        | #2  | E 150 II               |                                       |  |                |                                | 366×244              |
| SGG COOL-LITE E 125 II                       | 25                         | 0.23                 | 0.26                   | 1.09             | 29                                 | 15                                 | 2.0                                    | 1.6        | #2  | E 125 II               |                                       |  |                |                                | 366×244              |
| SGG COOL-LITE ST 167                         | 60                         | 0.59                 | 0.67                   | 1.02             | 23                                 | 23                                 | 2.8                                    | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG COOL-LITE ST 150                         | 46                         | 0.46                 | 0.53                   | 1.00             | 20                                 | 22                                 | 2.8                                    | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG ANTELIO CLEAR                            | 42                         | 0.54                 | 0.62                   | 0.78             | 28                                 | 35                                 | 2.8                                    | 2.6        | #1 or #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| <b>EXTRA CLEAR</b>                           |                            |                      |                        |                  |                                    |                                    |  |            |   |                        |                                       |  |                |                                |                      |
| SGG COOL-LITE XTREME 60/28 DIAMANT           | 61                         | 0.27                 | 0.31                   | 2.26             | 14                                 | 17                                 | 1.5                                    | 1.0        |   | XTREME 60/28 II        |                                       |  |                |                                | 600×321              |
| SGG COOL-LITE XTREME 50/22 II DIAMANT        | 51                         | 0.22                 | 0.25                   | 2.32             | 18                                 | 21                                 | 1.5                                    | 1.0        |   | XTREME 50/22 II        |                                       |  |                |                                | 600×321 <sup>5</sup> |
| SGG COOL-LITE SKN 074                        | 70                         | 0.40                 | 0.46                   | 1.75             | 11                                 | 13                                 | 1.6                                    | 1.1        |   | SKN 074 II             |                                       | ✓ <sup>2</sup>                                 |                |                                | 600×321              |
| SGG COOL-LITE SKN 065                        | 62                         | 0.33                 | 0.38                   | 1.88             | 17                                 | 18                                 | 1.5                                    | 1.0        |   | SKN 065 II             |                                       | ✓ <sup>2</sup>                                 |                |                                | 600×321              |
| SGG COOL-LITE SKN 063 II CN <sup>7</sup>     | 61                         | 0.35                 | 0.40                   | 1.74             | 15                                 | 18                                 | 1.6                                    | 1.1        |   | SKN 063 II             |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE SKN 054                        | 53                         | 0.27                 | 0.32                   | 1.96             | 19                                 | 22                                 | 1.5                                    | 1.0        |   | SKN 054 II             |                                       | ✓ <sup>2</sup>                                 |                |                                | 600×321              |
| SGG COOL-LITE SKN 044 II                     | 42                         | 0.23                 | 0.27                   | 1.83             | 20                                 | 15                                 | 1.6                                    | 1.1        |   | SKN 044 II             |                                       |  |                |                                | 600×321              |
| <b>SILVER</b>                                |                            |                      |                        |                  |                                    |                                    |  |            |   |                        |                                       |  |                |                                |                      |
| SGG COOL-LITE SKS 146 II                     | 42                         | 0.22                 | 0.25                   | 1.91             | 30                                 | 18                                 | 1.6                                    | 1.1        |   | SKS 146 II             |                                       |  |                |                                | 366×254              |
| SGG COOL-LITE KS 150 II                      | 46                         | 0.33                 | 0.38                   | 1.39             | 29                                 | 16                                 | 1.6                                    | 1.2        |   | KS 150 II              |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE KS 050 II CN <sup>7</sup>      | 48                         | 0.35                 | 0.41                   | 1.37             | 30                                 | 16                                 | 1.6                                    | 1.2        |   | KS 050 II              |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE KS 147                         | 44                         | 0.30                 | 0.34                   | 1.47             | 43                                 | 38                                 | 1.6                                    | 1.2        |   |                        |                                       |  |                |                                | 600×321              |
| SGG COOL-LITE KS 146 II                      | 42                         | 0.28                 | 0.32                   | 1.50             | 33                                 | 19                                 | 1.6                                    | 1.2        |   | KS 146 II              |                                       |  |                |                                | 366×244              |
| SGG COOL-LITE KS 145 II                      | 40                         | 0.27                 | 0.31                   | 1.48             | 33                                 | 26                                 | 1.6                                    | 1.1        |   | KS 145 II              |                                       |  |                |                                | 366×254              |
| SGG COOL-LITE KS 138 II                      | 36                         | 0.25                 | 0.29                   | 1.44             | 40                                 | 19                                 | 1.6                                    | 1.2        |   | KS 138 II              |                                       |  |                |                                | 366×244              |
| SGG COOL-LITE ST BRIGHT SILVER PLANICLEAR    | 62                         | 0.62                 | 0.72                   | 1.00             | 34                                 | 34                                 | 2.8                                    | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG COOL-LITE ST BRIGHT SILVER               | 63                         | 0.65                 | 0.75                   | 0.97             | 35                                 | 35                                 | 2.8                                    | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG COOL-LITE ST 120                         | 18                         | 0.22                 | 0.25                   | 0.82             | 32                                 | 30                                 | 2.6                                    | 2.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG COOL-LITE ST 108                         | 7                          | 0.10                 | 0.12                   | 0.70             | 44                                 | 39                                 | 1.9                                    | 1.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG ANTELIO SILVER                           | 62                         | 0.64                 | 0.73                   | 0.97             | 34                                 | 34                                 | 2.8                                    | 2.6        | #1 or #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG MIRASTAR                                 | 3                          | 0.10                 | 0.11                   | 0.30             | 55                                 | 59                                 | 2.0                                    | 1.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                |                                | 600×321              |
| <b>GREY</b>                                  |                            |                      |                        |                  |                                    |                                    |  |            |   |                        |                                       |  |                |                                |                      |
| SGG COOL-LITE SK GREY 148 II                 | 44                         | 0.28                 | 0.32                   | 1.57             | 14                                 | 10                                 | 1.6                                    | 1.1        |   | SK GREY 148 II         |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE SK GREY 056 II CN <sup>7</sup> | 53                         | 0.28                 | 0.32                   | 1.89             | 20                                 | 24                                 | 1.6                                    | 1.1        |   | SK GREY 056 II         |                                       |  |                |                                | 450×254              |
| SGG COOL-LITE ST 136                         | 34                         | 0.34                 | 0.40                   | 1.00             | 23                                 | 23                                 | 2.7                                    | 2.5        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321              |
| SGG REFLECTASOL DARK GREY                    | 4                          | 0.25                 | 0.28                   | 0.16             | 5                                  | 52                                 | 2.8                                    | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 321×225              |
| <b>GOLD</b>                                  |                            |                      |                        |                  |                                    |                                    |  |            |   |                        |                                       |  |                |                                |                      |
| SGG COOL-LITE KG 137 ANNEALED                | 35                         | 0.29                 | 0.33                   | 1.21             | 30                                 | 29                                 | 1.7                                    | 1.2        |   |                        | ✓                                     |  |                |                                | 600×321              |
| SGG COOL-LITE KG 137 TEMPERED                | 35                         | 0.29                 | 0.33                   | 1.21             | 33                                 | 32                                 | 1.7                                    | 1.2        |   |                        | ✓                                     |  |                |                                | 600×321              |
| SGG REFLECTASOL LIGHT GOLD                   | 30                         | 0.46                 | 0.53                   | 0.65             | 47                                 | 53                                 | 2.8                                    | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 321×225              |

<sup>1</sup> DGU values calculated with SGG PLANILUX as inner pane, except for extra clear appearance for which SGG DIAMANT is used

<sup>2</sup> Solar control coating in contact with PVB modifies performances and aesthetics. Please contact us to get the approved PVB list

<sup>3</sup> Bending results depend on the process; trials should be done for validation

<sup>4</sup> SGG COOL-LITE SKN 154 II: LRI=26%

<sup>5</sup> Overlength until 850 cm is possible on request for XTREME II / SKN 174 II / SKN 154 II

<sup>6</sup> Validation should be taken with digital printing inks and enamels

<sup>7</sup> CN: extra clear substrate from china

| PRODUCT                   | Light Transmittance LT (%) | Solar Factor g-value | Shading Coefficient SC | Selectivity LT/g | External Light Reflectance LRe (%) | Internal Light Reflectance LRI (%) | U-Value (EN 673) W/(m².K) |            | Possible use as single glazing (coating on surface #) | Processing             |                                       |  |                |                                | Maximum size (cm) |
|---------------------------|----------------------------|----------------------|------------------------|------------------|------------------------------------|------------------------------------|---------------------------|------------|---|------------------------|---------------------------------------|--|----------------|--------------------------------|-------------------|
|                           |                            |                      |                        |                  |                                    |                                    | 12mm air                  | 16mm argon |   | To be tempered coating | Temperable coating (one single stock) | Lamination (coating on #2 inside the laminate) | Bending        | Screen-printing and enamelling |                   |
| <b>GREEN</b>              |                            |                      |                        |                  |                                    |                                    |                           |            |   |                        |                                       |  |                |                                |                   |
| SGG COOL-LITE SKN 465 II  | 50                         | 0.26                 | 0.30                   | 1.92             | 12                                 | 16                                 | 1.5                       | 1.0        |   | SKN 465 II             |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE SKN 454 II  | 41                         | 0.22                 | 0.26                   | 1.86             | 14                                 | 26                                 | 1.5                       | 1.0        |   | SKN 454II              |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE SKN 444 II  | 33                         | 0.19                 | 0.22                   | 1.74             | 15                                 | 12                                 | 1.6                       | 1.1        |   | SKN 444 II             |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE KNT 464     | 47                         | 0.31                 | 0.36                   | 1.52             | 11                                 | 10                                 | 1.9                       | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE KNT 455     | 39                         | 0.26                 | 0.30                   | 1.50             | 13                                 | 10                                 | 1.9                       | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE KNT 440     | 31                         | 0.21                 | 0.24                   | 1.48             | 17                                 | 12                                 | 1.8                       | 1.3        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE KS 446 II   | 35                         | 0.22                 | 0.25                   | 1.59             | 24                                 | 19                                 | 1.6                       | 1.2        |   | KS 446 II              |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE KS 438 II   | 30                         | 0.20                 | 0.22                   | 1.50             | 29                                 | 19                                 | 1.6                       | 1.2        |   | KS 438 II              |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE E 425 II    | 21                         | 0.18                 | 0.20                   | 1.17             | 21                                 | 15                                 | 2.0                       | 1.6        | #2  | E 425 II               |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE E 450 II    | 37                         | 0.30                 | 0.34                   | 1.23             | 12                                 | 17                                 | 2.6                       | 2.3        | #2  | E 450 II               |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE ST 467      | 49                         | 0.40                 | 0.46                   | 1.23             | 17                                 | 23                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE ST 450      | 38                         | 0.33                 | 0.37                   | 1.15             | 15                                 | 21                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE ST 436      | 28                         | 0.26                 | 0.30                   | 1.08             | 17                                 | 22                                 | 2.7                       | 2.5        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE ST 420      | 15                         | 0.18                 | 0.21                   | 0.83             | 24                                 | 30                                 | 2.6                       | 2.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE ST 408      | 6                          | 0.10                 | 0.11                   | 0.60             | 32                                 | 39                                 | 1.9                       | 1.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| SGG REFLECTASOL 'H GREEN' | 24                         | 0.30                 | 0.34                   | 0.80             | 34                                 | 53                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 321×225           |
| SGG ANTELIO EMERALD       | 49                         | 0.37                 | 0.43                   | 1.32             | 22                                 | 32                                 | 2.8                       | 2.6        | #1 or #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |
| <b>BLUE</b>               |                            |                      |                        |                  |                                    |                                    |                           |            |   |                        |                                       |  |                |                                |                   |
| SGG COOL-LITE SKN 765 II  | 39                         | 0.23                 | 0.26                   | 1.70             | 9                                  | 16                                 | 1.5                       | 1.0        |   | SKN 765 II             |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE SKN 754 II  | 32                         | 0.20                 | 0.23                   | 1.60             | 10                                 | 25                                 | 1.5                       | 1.0        |   | SKN 754 II             |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE SKN 744 II  | 26                         | 0.17                 | 0.20                   | 1.53             | 11                                 | 12                                 | 1.6                       | 1.1        |   | SKN 744 II             |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE KS 746 II   | 27                         | 0.20                 | 0.23                   | 1.35             | 16                                 | 19                                 | 1.6                       | 1.2        |   | KS 746 II              |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE KS 738 II   | 23                         | 0.18                 | 0.21                   | 1.28             | 19                                 | 19                                 | 1.6                       | 1.2        |   | KS 738 II              |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE KBT 140     | 36                         | 0.29                 | 0.33                   | 1.24             | 24                                 | 17                                 | 1.8                       | 1.4        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE KNT 764     | 37                         | 0.28                 | 0.33                   | 1.32             | 8                                  | 9                                  | 1.9                       | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE KNT 755     | 30                         | 0.24                 | 0.28                   | 1.25             | 10                                 | 10                                 | 1.9                       | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE KNT 740     | 24                         | 0.19                 | 0.22                   | 1.26             | 12                                 | 12                                 | 1.8                       | 1.3        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE E 750 II    | 29                         | 0.28                 | 0.32                   | 1.04             | 9                                  | 16                                 | 2.6                       | 2.3        | #2  | E 750 II               |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE E 725 II    | 16                         | 0.17                 | 0.19                   | 0.94             | 14                                 | 15                                 | 2.0                       | 1.6        | #2  | E 725 II               |                                       |  |                |                                | 366×244           |
| SGG COOL-LITE STB 136     | 33                         | 0.34                 | 0.40                   | 0.97             | 18                                 | 22                                 | 2.7                       | 2.5        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE STB 120     | 20                         | 0.24                 | 0.27                   | 0.83             | 21                                 | 32                                 | 2.7                       | 2.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE ST 767      | 38                         | 0.37                 | 0.42                   | 1.03             | 12                                 | 22                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 750      | 30                         | 0.30                 | 0.35                   | 1.00             | 11                                 | 21                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 736      | 22                         | 0.24                 | 0.28                   | 0.92             | 12                                 | 22                                 | 2.7                       | 2.5        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 720      | 12                         | 0.17                 | 0.20                   | 0.71             | 16                                 | 30                                 | 2.6                       | 2.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 708      | 5                          | 0.10                 | 0.11                   | 0.50             | 21                                 | 39                                 | 1.9                       | 1.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG REFLECTASOL BLUE      | 19                         | 0.28                 | 0.33                   | 0.68             | 22                                 | 52                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 321×225           |
| <b>BLUE-GREEN</b>         |                            |                      |                        |                  |                                    |                                    |                           |            |   |                        |                                       |  |                |                                |                   |
| SGG COOL-LITE STB 436     | 27                         | 0.25                 | 0.29                   | 1.08             | 14                                 | 22                                 | 2.7                       | 2.5        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 600×321           |
| SGG COOL-LITE STB 420     | 17                         | 0.19                 | 0.22                   | 0.89             | 16                                 | 32                                 | 2.7                       | 2.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 600×321           |
| <b>BRONZE</b>             |                            |                      |                        |                  |                                    |                                    |                           |            |   |                        |                                       |  |                |                                |                   |
| SGG COOL-LITE KNT 264     | 31                         | 0.29                 | 0.34                   | 1.07             | 7                                  | 9                                  | 1.9                       | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE KNT 255     | 26                         | 0.24                 | 0.28                   | 1.08             | 8                                  | 10                                 | 1.9                       | 1.5        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE KNT 240     | 20                         | 0.19                 | 0.22                   | 1.05             | 10                                 | 12                                 | 1.8                       | 1.3        |   |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 267      | 33                         | 0.41                 | 0.47                   | 0.80             | 10                                 | 22                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 250      | 25                         | 0.33                 | 0.38                   | 0.76             | 9                                  | 21                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 236      | 18                         | 0.26                 | 0.30                   | 0.69             | 10                                 | 22                                 | 2.7                       | 2.5        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 220      | 10                         | 0.18                 | 0.20                   | 0.56             | 13                                 | 30                                 | 2.6                       | 2.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG COOL-LITE ST 208      | 4                          | 0.10                 | 0.11                   | 0.40             | 16                                 | 39                                 | 1.9                       | 1.4        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 366×244           |
| SGG REFLECTASOL BRONZE    | 16                         | 0.35                 | 0.40                   | 0.47             | 17                                 | 52                                 | 2.8                       | 2.6        | #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 |                | ✓ <sup>6</sup>                 | 321×225           |
| SGG ANTELIO BRONZE        | 22                         | 0.35                 | 0.40                   | 0.63             | 12                                 | 35                                 | 2.8                       | 2.6        | #1 or #2  |                        | ✓                                     | ✓ <sup>2</sup>                                 | ✓ <sup>3</sup> | ✓ <sup>6</sup>                 | 600×321           |

Average values given according to the standards ISO 9050 m1 and EN 673

| PRODUCT  | Aesthetics in exterior reflection | Coating position | Light Transmittance LT (%) | Solar Factor g-value | Shading Coefficient SC | External Light Reflectance LRe (%) | Internal Light Reflectance LRI (%) | U-Value (EN 673) W/(m².K) |                                       | Processing             |                   | Maximum size (cm)    | Benefits   |
|--|-----------------------------------|------------------|----------------------------|----------------------|------------------------|------------------------------------|------------------------------------|---------------------------|---------------------------------------|------------------------|-------------------|----------------------|--|
|  |                                   |                  |                            |                      |                        |                                    |                                    | To be tempered coating    | Temperable coating (one single stock) |                        |                   |                      |  |
| <b>High Light Transmission low-E glass (DGU 6+12+6mm )</b>                               |                                   |                  |                            |                      |                        |                                    |                                    |                           |                                       | 12 mm air              | 16 mm argon       |                      |  |
| SGG PLANITHERM DUAL 0.9  | Neutral                           | # 3 # 4          | 65                         | 0.46                 | 0.53                   | 24                                 | 24                                 | 1.3                       | 0.9                                   |                        |                   | 600x321              | <ul style="list-style-type: none"> <li>• Heating energy savings in winter time due to high level of thermal insulation</li> <li>• Cooling energy savings in summertime in combination with solar control glass</li> <li>• No cold area around windows in heating dominating climate</li> <li>• Environmentally friendly thanks to the CO<sub>2</sub> emission reduction</li> <li>• High color neutrality for windows and façade applications</li> </ul>  |
| SGG PLANITHERM DUAL 1.0  | Neutral                           | # 3 # 4          | 74                         | 0.58                 | 0.67                   | 15                                 | 15                                 | 1.4                       | 1.0                                   |                        |                   | 600x321              |  |
| SGG PLANITHERM ONE   | Neutral                           | # 3              | 71                         | 0.48                 | 0.55                   | 22                                 | 23                                 | 1.5                       | 1.0                                   | ONE II                 |                   | 600x321              |  |
| SGG PLANITHERM XN  | Neutral                           | # 3              | 81                         | 0.61                 | 0.70                   | 12                                 | 13                                 | 1.6                       | 1.1                                   | XN II                  |                   | 600x321 <sup>1</sup> |  |
| SGG PLANITHERM XN DIAMANT  | Extra clear                       | # 3              | 83                         | 0.63                 | 0.73                   | 12                                 | 13                                 | 1.6                       | 1.1                                   | XN II DIAMANT          |                   | 600x321 <sup>1</sup> |  |
| SGG PLANITHERM ULTRA N   | Neutral                           | # 3              | 79                         | 0.58                 | 0.67                   | 12                                 | 12                                 | 1.6                       | 1.1                                   | ULTRA N II             |                   | 600x321 <sup>1</sup> |  |
| SGG PLANITHERM ULTRA N DIAMANT   | Extra clear                       | # 3              | 81                         | 0.61                 | 0.70                   | 12                                 | 13                                 | 1.6                       | 1.1                                   | ULTRA N II DIAMANT     |                   | 600x321 <sup>1</sup> |  |
| SGG PLANITHERM 1.16  | Neutral                           | # 3              | 78                         | 0.60                 | 0.69                   | 12                                 | 12                                 | 1.7                       | 1.2                                   | 1.16 II                |                   | 450x254              |  |
| SGG PLANITHERM TOTAL +   | Neutral                           | # 3              | 80                         | 0.68                 | 0.79                   | 12                                 | 12                                 | 1.7                       | 1.2                                   |                        | ✓                 | 600x321              |  |
| SGG PLANITHERM 1.3 T   | Neutral                           | # 3              | 75                         | 0.62                 | 0.72                   | 12                                 | 12                                 | 1.8                       | 1.3                                   |                        | ✓                 | 450x254              |  |
| <b>No edge deletion Low-E glass (DGU 6+12+6mm )</b>                                      |                                   |                  |                            |                      |                        |                                    |                                    |                           |                                       | 12 mm air              | 16 mm argon       |                      |  |
| SGG PLANITHERM HN annealed   | Neutral                           | # 3              | 69                         | 0.64                 | 0.73                   | 13                                 | 12                                 | 1.8                       | 1.4                                   |                        | ✓ <sup>2</sup>    | 600x321              | <ul style="list-style-type: none"> <li>• No edge deletion glass</li> </ul>   |
| SGG PLANITHERM HN tempered   | Neutral                           | # 3              | 75                         | 0.64                 | 0.73                   | 13                                 | 12                                 | 1.8                       | 1.4                                   |                        | ✓ <sup>2</sup>    | 600x321              |  |
| <b>Low-E on tinted glass (DGU 6+12+6mm )</b>   |                                   |                  |                            |                      |                        |                                    |                                    |                           |                                       | 12 mm air              | 16 mm argon       |                      |  |
| SGG PLANITHERM 1.3 T on green  | Green                             | # 2              | 62                         | 0.37                 | 0.42                   | 9                                  | 11                                 | 1.8                       | 1.3                                   |                        | ✓                 | 366x244              | <ul style="list-style-type: none"> <li>• Cooling energy savings</li> <li>• Good level of thermal insulation</li> <li>• Blue or green color appearance from the exterior</li> </ul>   |
| SGG PLANITHERM 1.3 T on blue   | Blue                              | # 2              | 48                         | 0.33                 | 0.38                   | 7                                  | 11                                 | 1.8                       | 1.3                                   |                        | ✓                 | 366x244              |  |
| <b>«Four seasons» low-E glass (DGU 6+12+6mm )</b>  |                                   |                  |                            |                      |                        |                                    |                                    |                           |                                       | 12 mm air              | 16 mm argon       |                      |  |
| SGG PLANISTAR SUN  | Neutral                           | # 2              | 71                         | 0.36                 | 0.41                   | 14                                 | 15                                 | 1.5                       | 1.0                                   |                        |                   | 600x321              | <ul style="list-style-type: none"> <li>• In wintertime <ul style="list-style-type: none"> <li>- Energy savings due to reduced heating requirement</li> <li>- No cold areas around windows</li> </ul> </li> <li>• In summertime <ul style="list-style-type: none"> <li>- Improved comfort due to reduced overheating</li> <li>- Less running cost for air conditioning</li> </ul> </li> <li>• Environmentally friendly thanks to the CO<sub>2</sub> emission reduction</li> <li>• SGG PLANITHERM BRONZE has a bronze appearance from the exterior, fitting well with wooden frames</li> </ul> |
| SGG PLANITHERM 4S  | Neutral                           | # 2              | 65                         | 0.40                 | 0.46                   | 27                                 | 24                                 | 1.5                       | 1.0                                   | 4S II                  |                   | 600x321              |  |
| SGG PLANITHERM 4S EVO  | Neutral                           | # 2              | 60                         | 0.37                 | 0.42                   | 22                                 | 26                                 | 1.5                       | 1.0                                   |                        |                   | 600x321              |  |
| SGG PLANITHERM BRONZE  | Bronze                            | # 2              | 43                         | 0.27                 | 0.31                   | 9                                  | 26                                 | 1.5                       | 1.0                                   |                        |                   | 600x321              |  |
| SGG PLANITHERM LUX   | Neutral                           | # 2 # 5          | 73                         | 0.62                 | 0.71                   | 17                                 | 17                                 | 0.7                       | 0.6                                   | LUX II                 |                   | 600x321              |  |
| <b>Low-E glass for triple glazing units (TGU 4+14+4+14+4mm) According to norm EN 410</b> |                                   |                  |                            |                      |                        |                                    |                                    |                           |                                       | 14 mm Argon 90%        | 10 mm Krypton 92% |                      |  |
| SGG PLANITHERM LUX DIAMANT   | Extra Clear                       | # 2 # 5          | 75                         | 0.65                 | 0.75                   | 17                                 | 17                                 | 0.7                       | 0.6                                   | LUX II DIAMANT         |                   | 600x321              | <ul style="list-style-type: none"> <li>• Excellent energy balance for cold and mixed climates</li> <li>• High solar heat gain</li> <li>• Extreme level of thermal insulation</li> <li>• Very high light transmittance</li> <li>• High neutrality and transparency</li> <li>• Anticondensation with Viewclear II</li> </ul>   |
| SGG PLANITHERM XN  | Neutral                           | # 2 # 5          | 74                         | 0.54                 | 0.62                   | 16                                 | 16                                 | 0.6                       | 0.6                                   | XN II                  |                   | 600x321              |  |
| SGG VIEWCLEAR II / XN  | Neutral                           | # 1 # 3 # 5      | 75                         | 0.52                 | 0.60                   | 14                                 | 15                                 | 0.6                       | 0.5                                   | VIEWCLEAR II           |                   | 600x321              |  |
| SGG VIEWCLEAR II / LUX II  | Neutral                           | # 1 # 3 # 5      | 74                         | 0.55                 | 0.64                   | 15                                 | 16                                 | 0.7                       | 0.6                                   | VIEWCLEAR II           |                   | 600x321              |  |
| SGG PLANITHERM LUX   | Neutral                           | # 2 # 5          | 73                         | 0.62                 | 0.71                   | 17                                 | 17                                 | 0.7                       | 0.6                                   | LUX II                 |                   | 600x321              |  |
| <b>Self-cleaning glass (DGU 6+12+6mm )</b>   |                                   |                  |                            |                      |                        |                                    |                                    |                           |                                       | 12 mm air              | 16 mm argon       |                      |  |
| SGG BIOCLEAR II  | Neutral                           | # 1              | 79                         | 0.75                 | 0.86                   | 17                                 | 17                                 | 2.8                       | 2.6                                   | BIOCLEAR II            |                   | 600x321              | <ul style="list-style-type: none"> <li>• Less frequent and much easier cleaning</li> <li>• Maintenance cost saving</li> <li>• Ideal for hard to reach areas</li> <li>• Very long lifetime coating</li> <li>• Available with energy efficient coatings</li> <li>• Neutrality and transparency close to normal glass</li> </ul>  |
| SGG BIOCLEAR II ULTRA N II <sup>3</sup>  | Neutral                           | # 1 # 2          | 77                         | 0.54                 | 0.62                   | 15                                 | 15                                 | 1.6                       | 1.1                                   | BIOCLEAR II ULTRA N II |                   | 600x321              |  |
| SGG BIOCLEAR SC II clear   | Neutral                           | # 1              | 45                         | 0.48                 | 0.55                   | 25                                 | 24                                 | 2.8                       | 2.6                                   | BIOCLEAR SC II clear   |                   | 600x321              |  |
| SGG BIOCLEAR SC II green   | Green                             | # 1              | 37                         | 0.29                 | 0.33                   | 24                                 | 20                                 | 2.8                       | 2.6                                   | BIOCLEAR SC II green   |                   | 600x321              |  |
| <b>Anti-reflective glass</b>   |                                   |                  |                            |                      |                        |                                    |                                    |                           |                                       |                        |                   |                      |  |
| SGG VISION LITE (Laminated Glass 44.1) PLANICLEAR  | Clear                             | # 1 # 4          | 95                         | 0.80                 | 0.92                   | 1                                  | 1                                  | 5.7                       |                                       |                        |                   | 600x321              | <ul style="list-style-type: none"> <li>• Extreme transparency</li> <li>• Very low visible light reflection</li> <li>• High color neutrality</li> <li>• Safety and security</li> </ul>  |
| SGG VISION LITE (Laminated Glass 44.1)   | Extra Clear                       | # 1 # 4          | 97                         | 0.83                 | 0.95                   | 1                                  | 1                                  | 5.7                       |                                       |                        |                   | 600x321              |  |
| SGG VISION LITE (Laminated Glass 1010.1)   | Extra Clear                       | # 1 # 4          | 95                         | 0.82                 | 0.95                   | 1                                  | 1                                  | 5.3                       |                                       |                        |                   | 600x321              |  |
| SGG VISION LITE II (4 mm) <sup>4</sup>   | Neutral                           | # 1 # 2          | 97                         | 0.84                 | 0.97                   | 1                                  | 1                                  | 5.8                       |                                       | VISION-LITE II         |                   | 600x321              |  |

<sup>1</sup>Overlength until 850 cm possible on request for ULTRA N II and ULTRA N II DIAMANT

<sup>2</sup>No Edge deletion

<sup>3</sup>DGU 4+12+4

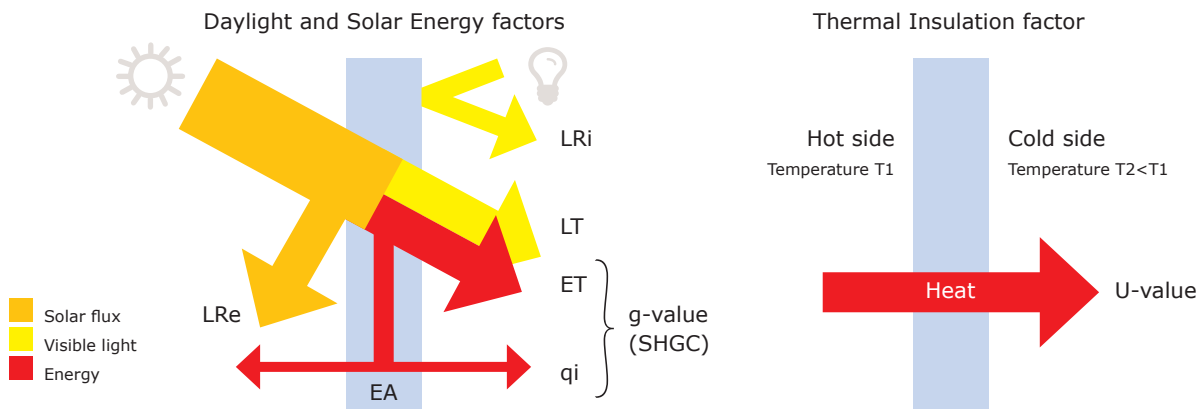
<sup>4</sup>Only for appliances

LOW-E GLASS RANGE

SELF-CLEANING

ANTI-REFLECTIVE

## Definition of key performance factors of a glazing



- Visible Light transmittance (LT):** % of visible light passing through the glazing
- External Light Reflectance (LRe):** % of visible light, reflected outside the glazing
- Internal Light Reflectance (LRI):** % of visible light, reflected to the inside of the building
- Energy Transmittance (ET):** % of solar energy directly transmitted through the glazing
- Energy Absorbance (EA):** % of solar energy absorbed by the glazing
- g-value:** Solar Factor or Solar Heat Gain Coefficient. Total solar energy entering into the building. Figure between 0 and 1. The lower the g value, the more efficient is the glazing in blocking the entry of solar energy
- Shading Coefficient (SC):**  $SC = g/0.87$
- Selectivity (or LSG):** ratio between the light transmittance (LT) and the solar factor (g-value). The higher the selectivity value, the better is the glazing to cut more solar energy than visible light
- U-value:** Thermal Transfer Coefficient. Quantity of heat transferred through the glazing due to the temperature difference between inside and outside. The lower the U-value, the better the thermal insulation performance

## Solutions from Saint-Gobain Glass

**Saint-Gobain Glass is offering a complete range of energy efficient glazings — solar control, low-E, daylight and low maintenance — for façade and windows, that meet the requirements of low energy consumption buildings**

- Energy and cost savings for cooling and heating
- Electricity and cost savings for artificial lighting
- Glare control
- Reduced emission of greenhouse gas CO<sub>2</sub>
- Maintenance cost savings
- Wide range of aesthetics, in term of colors, reflectivity and transparency
- Glass sheets available in various sizes up to XXL jumbo size
- Easy to process products.
- Technical certification programme available for fabricators (please contact us)

### Temperable or 'to be tempered'?

- A "temperable coated glass" (ex: Cool-Lite ST, KT, PLANITHERM 1.3 T) can be used tempered or not tempered. It's a 'one single stock' product.
- A "to be tempered coated glass" (ex: SKN 174 II), must be heat-treated to get its performances and aesthetics. Its properties are then equivalent to the not temperable version (ex: SKN 174).



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