

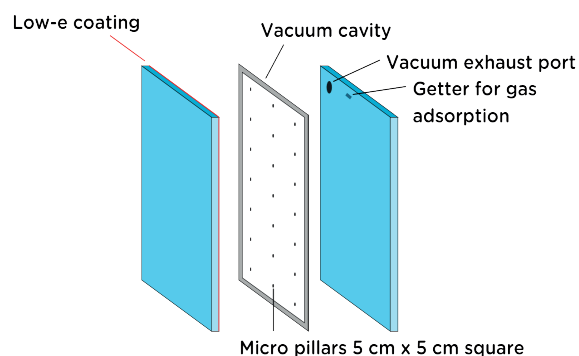


# INSIO®

## Transparent Insulation

INSIO® *Transparent Insulation* is an innovative vacuum glazing solution designed to deliver exceptional thermal and acoustic insulation. At its core lies a 0.3 mm vacuum layer between two panes of glass - substantially reducing heat transfer compared to conventional double or triple glazing.

Thanks to the use of tempered safety glass, INSIO® requires fewer internal support pillars, allowing for a cleaner design and enabling a remarkably low Ug-value, lower than best triple-glazed units. Combined with a low-emissivity coating, INSIO® offers premium energy performance and elegant aesthetics, making it the ideal choice for windows application in sustainable buildings, renovations, and high-end architectural projects.



### INSIO® PERFORMANCES

INSIO® is CE-marked following the EOTA route for Vacuum Insulating Glass Units (EAD 300021-00-0404 / ETA 25/0363).  
Measured performance data

|   | Coating Face | Total Thickness | Ug-Value <sup>1</sup> | Light Transmission (LT) <sup>2</sup> | Solar Factor (g-value) <sup>2</sup> | Outside reflection (LRe) <sup>2</sup> | Inside reflection (LRI) <sup>2</sup> | Rw [C,Ctr] <sup>3</sup> |
|---|--------------|-----------------|-----------------------|--------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|-------------------------|
|   |              | [mm]            | [W/m <sup>2</sup> °K] | [%]                                  | [%]                                 | [%]                                   | [%]                                  | [dB]                    |
| INSIO® is made of two tempered glass panes with low emissivity coating                          |              |                 |                       |                                      |                                     |                                       |                                      |                         |
| INSIO® 10-C1  | 2            | 10              | 0,5                   | 77                                   | 63                                  | 15                                    | 14                                   | 35(-2,-2)               |
| INSIO® is available <b>upon request</b> with Solar Control function, leading to lower Ug value. |              |                 |                       |                                      |                                     |                                       |                                      |                         |
| INSIO® 10-C2  | 2            | 10              | 0,3                   | 69                                   | 39                                  | 14                                    | 14                                   | 35(-2,-2)               |
| INSIO® 10-C3  | 2            | 10              | 0,3                   | 63                                   | 30                                  | 13                                    | 13                                   | 35(-2,-2)               |

<sup>1</sup> according to ISO 19916-1; <sup>2</sup> according to ISO 19916-1 + EN 410; <sup>3</sup> Evaluation based on laboratory measurement on 908 mm x 2127 mm sample, according to ISO 10140-2 : 2021 and ISO 717-1 : 2020

### INSIO® AVAILABILITY

|            |   |                   |
|------------|---|-------------------|
| Dimensions | Max   | 1524 mm x 2438 mm |
|            | Min   | 305 mm x 457 mm   |
| Thickness  | 10 mm as standard, 8 and 12 mm on request                   |                   |
| Lead time  | 4 to 10 weeks - depending on the specificity of the request |                   |



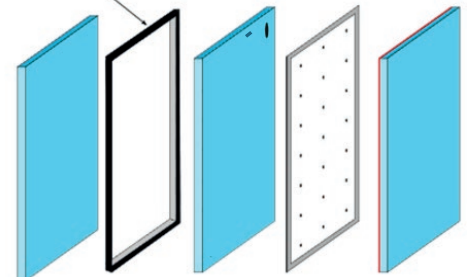
# CLIMAPLUS® INSIO®

## Ultra Insulating Glazing

CLIMAPLUS® INSIO® combines the breakthrough insulation of INSIO® *Transparent Insulation* with the practicality of a standard double-glazing unit. By integrating INSIO® into a conventional glazing unit using a standard spacer and a counter glass, CLIMAPLUS® INSIO® achieves standard glazing thickness, making it easy to install in existing window systems without design constraints.

The counter glass is selected from Saint-Gobain Glass's extensive product portfolio to match specific performance needs, whether thermal, acoustic, solar control, or aesthetic. This flexible configuration allows CLIMAPLUS® INSIO® to deliver high-end vacuum insulation while adapting to diverse architectural and technical requirements.

Standard IGU spacer



### CLIMAPLUS® INSIO® PERFORMANCES

Calculated performance data

|  | Total thickness | Ug-Value <sup>1</sup> | Light Transmission (LT) <sup>2</sup> | Solar Factor (g-value) <sup>2</sup> | Outside reflection (LRe) <sup>2</sup> | Inside reflection (LRi) <sup>2</sup> |
|--|-----------------|-----------------------|--------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|
|  | [mm]            | [W/m² K]              | [%]                                  | [%]                                 | [%]                                   | [%]                                  |
| Double Glazing Unit with INSIO® 10 as internal pane with low emissivity coating on face 5:<br>CG/10-14 Ar/INSIO® 10-C1 with CG : Counter Glass with eventually a coating on face 2 |                 |                       |                                      |                                     |                                       |                                      |
| CLIMAPLUS® INSIO® - 4 mm Clear as CG   | 28              | 0,5                   | 71                                   | 62                                  | 20                                    | 20                                   |
| CLIMAPLUS® INSIO® - STADIP® PROTECT 44.2 as CG   | 28              | 0,5                   | 70                                   | 56                                  | 19                                    | 20                                   |
| CLIMAPLUS® INSIO® - 4 mm ECLAZ® LUMI as CG   | 28              | 0,4                   | 71                                   | 57                                  | 16                                    | 17                                   |
| CLIMAPLUS® INSIO® - 4 mm ECLAZ® ZEN as CG  | 28              | 0,4                   | 68                                   | 46                                  | 20                                    | 20                                   |
| CLIMAPLUS® INSIO® - 4 mm ECLAZ® SUN as CG  | 28              | 0,4                   | 62                                   | 34                                  | 18                                    | 20                                   |
| CLIMAPLUS® INSIO® - 4 mm ECLAZ® SUN PLUS as CG   | 28              | 0,4                   | 60                                   | 33                                  | 17                                    | 20                                   |
| CG/14 Ar/INSIO® 10-C2 with CG : Counter Glass with coating on face 2   |                 |                       |                                      |                                     |                                       |                                      |
| CLIMAPLUS® INSIO® - 4 mm ECLAZ® LUMI as CG   | 28              | 0,3                   | 64                                   | 46                                  | 16                                    | 16                                   |
| CG/14 Ar/INSIO® 10-C3 with CG : Counter Glass with coating on face 2   |                 |                       |                                      |                                     |                                       |                                      |
| CLIMAPLUS® INSIO® - 4 mm ECLAZ® ZEN as CG  | 28              | 0,2                   | 55                                   | 38                                  | 20                                    | 16                                   |

<sup>1</sup> according to ISO 19916-1 + EN 673; <sup>2</sup> according to ISO 19916-1 + EN 410

CLIMAPLUS® INSIO® is CE-marked.