

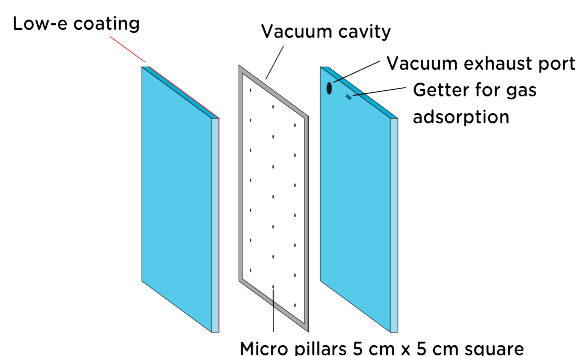


INSIO®

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 ¹	Light Transmission (LT) ²	Solar Factor (g-value) ²	Outside reflection (LRe) ²	Inside reflection (LRi) ²	Rw [C,Ctr] ³
		[mm]	[W/m ² °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 upon request 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)

according to ISO 19916-1 ; ²according to ISO 19916-1 + EN 410; ³ 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
Special shape	10 mm as standard, 8 and 12 mm on request	
Lead time	4 to 10 weeks - depending on the specificity of the request	



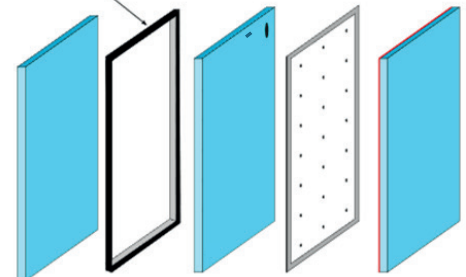
CLIMAPLUS® INSIO®

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 [mm]	Ug-Value ¹ [W/m²·K]	Light Transmission (LT) ² [%]	Solar Factor (g-value) ² [%]	Outside reflection (LRe) ² [%]	Inside reflection (LRi) ² [%]
Double Glazing Unit with INSIO® 10 as internal pane with low emissivity coating on face 5: 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® - 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	21	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

¹according to ISO 19916-1 + EN 673; ²according to ISO 19916-1 + EN 410

CLIMAPLUS® INSIO® is CE-marked.