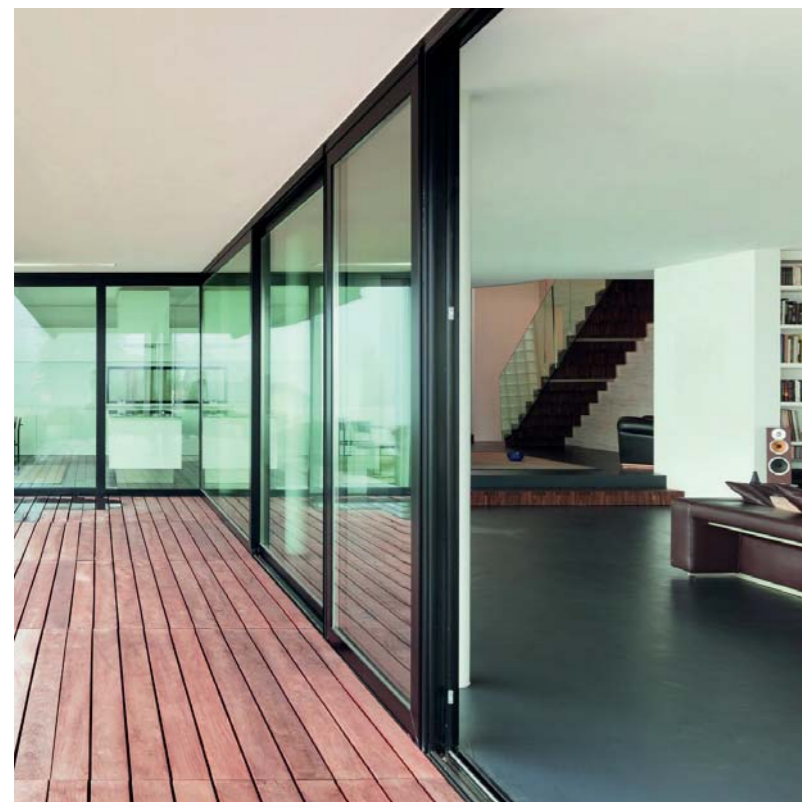


## ECLAZ APPLICATION

**ECLAZ ONE** is the best insulative glass that is possible to make industrially. In double glazing, it can reach the value of  $U_g = 1,0 \text{ W}/(\text{m}^2\cdot\text{K})$  into a composition 4-16 argon-4 mm with 60% of solar gain and 80% of light transmission.

**ECLAZ ONE IS PARTICULARLY WELL ADAPTED FOR DOUBLE GLAZING, FOR NEW BUILDING AND RENOVATION.**

- Windows and French windows of residential buildings
- Porches and loggias
- Windows and facades of non residential buildings



**ECLAZ** is perfect for triple glazing, mainly in new construction, residential and non residential.

It can reach the value  $U_g = 0,5 \text{ W}/(\text{m}^2\cdot\text{K})$  with the highest solar gain of the market (up to 60%).

You can also use ECLAZ for double glazing with  $U_g = 1,1 \text{ W}/(\text{m}^2\cdot\text{K})$  into a composition of 4-16 argon-4 mm with 71% of solar gain.

**IT IS RECOMMENDED FOR**

- Windows and French windows in cold climates.
- North and east windows or windows with little sunlight.



### Our sustainability journey

• Our mission is to create great living places and improve daily life, while preserving the future of all. This commitment is driven by our Glass Forever program, with the help of all our stakeholders: employees, customers, partners, suppliers...

• By sustainability, we mean taking care of the planet, the people and the prosperity, at every stages of the building life cycle: from raw material extraction, to the plants, jobsite, use of the building, and until its end of life. These principles are embedded in our Eco-Innovation approach, to create better products & solutions for the people and for the planet.

**Let's build Glass Forever together!**



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# ECLAZ

## SOURCE OF LIGHT AND WELLBEING



BUILDING GLASS POLAND



# ECLAZ

## SOURCE OF LIGHT AND WELLBEING

**ECLAZ**, is the new generation of Saint-Gobain Low-E glass for high end Glazing Units. Produced by an industrial breakthrough technology, ECLAZ comes on top of highly recognized Saint-Gobain Planitherm® range.



### UNDERSTAND THE DRIVERS OF COMFORT AND ENERGY EFFICIENCY

The energy efficiency of a window is not only defined in terms of thermal insulation, it also includes solar gains. Such a balance determines the energy efficiency of a window, but also contributes to occupants wellbeing.

#### Natural light

Recent studies show key contributions of natural light in mood, productivity and even the quality of sleep.

#### Thermal insulation

Management of heat loss, through efficient windows, allows up to 20% saving on energy bill while reducing cold wall sensation.

#### Solar gains

Heat transmission from the sun represents a free energy source. It also contributes to winter comfort of the occupant.

### ECLAZ, OPENS NEW FRONTIERS FOR DOUBLE AND TRIPLE GLAZED WINDOWS.

Aesthetic, thermal insulation, solar gains, natural light access, ECLAZ allows to reach the highest requirements in terms of energy efficiency and occupants' comfort, without any compromise.

### TAKE A DECISIVE ADVANCE IN CURRENT & FUTURE SMART BUILDING

ECLAZ brings an opportunity for windows to positively contribute in building energy saving challenge, taking in account the rising concern of indoor comfort as we spend 90 % of our time inside.

#### ECLAZ® coating

Float glass



### THE NEW ECLAZ RANGE:

#### ECLAZ ONE

For very high performance double glazed windows.

- 10% additional thermal insulation versus standard double glazed windows.
- 10% relative gain of natural light access versus best Ug 1.0 glazing product on the market.
- Neutral aesthetic with a limited mirror effect.

#### ECLAZ

For triple and double glazed windows for mild climate.

- 10% relative gain of solar factor versus best available triple glazing solution, and 10% relative gain solar factor versus best available double glazing solution.
- Such unequalled solar gains and luminous transmission allow the best energy efficiency for cold climates (triple glazing) and mild climates.
- Neutral aesthetic with a limited mirror effect.

#### These performances allow:

- To anticipate the highest requirements of European thermal regulations for new building (future BBio indicator in France, EnEv2020 in Germany, future Local energy Labels,...)
- To make affordable maximum contributions in natural light, comfort and energy savings for housing renovation.

## ECLAZ PERFORMANCES

Configuration	Coating	EN 410-2011			EN 673-2011
		TL%	Rlex %	g (%)	Ug (W/m².k)
4/14/4/14/4*	ECLAZ	77	14	60	0,6
4/16/4/16/4*	ECLAZ	77	14	60	0,6
4/18/4/18/4*	ECLAZ	77	14	60	0,5
4/16/4**	ECLAZ	83	12	71	1,1
4/18/4**	ECLAZ	83	12	71	1,1
4/20/4**	ECLAZ	83	12	71	1,1
4/15/4***	ECLAZ	84	8	65	1,0
4/16/4**	ECLAZ ONE	80	15	60	1,0

\*AR 90% F2/F5 \*\*AR 90 F3 \*\*\*AR 93% F2/F3

### ECLAZ OFFER

ECLAZ et ECLAZ One are both available in 6 000 x 3 210 mm, with thickness of 4, 6, mm and standard laminated composition.

Other dimensions, thickness please contact your Saint-Gobain retailer

Exists in toughenable versions in above thicknesses

Price indication and availability: contact your Saint-Gobain retailer

### COMBINATION WITH OTHER FUNCTIONS

ECLAZ et ECLAZ One can be combined with security, sound insulation, self cleaning and design functions.

### PROCESSING

ECLAZ and ECLAZ One can be processed as a standard low-e coating. For more technical information, please refer to ECLAZ processing guidelines documents.



#### Energy savings

- Decrease of the heating expenses, thanks to optimised energy balance.
- Decrease of electricity expenses, thanks to natural light gains



#### Full benefit of Natural light

- The additional light provided by ECLAZ is comparable to making the window 8 % Larger.
- More flexibility to conceive wider glazed area in North & East orientations (where indoors spaces need more light) without increasing heating expenses, thanks to high level of energy efficiency.



#### Freedom of design

- Neutral aspect in transmission and reflexion.
- Low mirror effect.



#### A key contribution in sustainability

- ECLAZ energy consumption for production is similar to standard low e coating. This, combined with highest energy efficiency when installed, allows a better energy and carbon impact on lifetime.
- Use of ECLAZ in double glazed unit allows to offset the energy used for its production within only 3 Months.
- Improved natural light access together with high solar gains in winter, increase occupant wellbeing and lead to a positive social impact.
- ECLAZ is EPD Verified

## ADVANTAGES OF ECLAZ

Thanks to **ECLAZ** and **ECLAZ one**, you do not have to choose between natural light and energy efficiency.

