



### SATINT-CORATN CLASS CLIMATI



Double function for your own comfort: SUPERIOR solar control and thermal insulation. With the new see PLANITHERM\* 4S Evolution you can enjoy the perfect temperature and ideal light no matter the season. The summer-winter comfort function maintains a pleasant atmosphere all year long, and the reflexivity provides a comfortable level of privacy.

# Applications

The characteristics of wor PLANITHERM® 4S Evolution glass enable the use of product both in the residential (individual houses, blocks of flats), and in non-residential sector (office buildings, hotels and restaurants, trade centers, schools etc.)

- soa PLANITHERM® 4S Evolution glass is dedicated for the windows of any new or renovated building
- Windows and skylights
  - Terrace doors and other exterior door types
- perfectly with all types of joinery: PVC, wood, all alminum; also in renovation projects, the glazing units with see PLANITHERM® 4S Evolution may be used in the existing frames.





## Description

- EVAINTHERM\* 4S Evolution coatings are obtained through cathodic sputtering deposits in specific installations (magnetron) under high vacuum and controlled atmosphere. These coatings are featured by low emissivity and have double qualities: they reflect the infrared radiation, characteristic to the warmth derived from the heat and at the same time, reflect a large part of the solar energy.
- 500 PLANITHERM® 4S Evolution glass performances have been improved, providing an increased sun protection and enhanced aesthetics, through lowering the external reflection level

NO. PLANITHERM® 4S Evolution coatings are always placed on the #2 face of the insulating glazing.

ses PLANITHERM® 4S Evolution glass can be laminated with one condition: the coating shouldn't be in contact with the PVB film.

The son PLANITHERM® 4S Evolution glazing has to be mounted according to the standards and general guidelines for processing.





# Benefits

900 PLANITHERM® 4S Evolution turns you into a passive witness of the seasons inside your home, ensuring your ideal thermal comfort regardless of weather changes. With see PLANITHERM® 4S Evolution you lose the sense of time thanks to the ambientally environment created by the constant optimum temperature and ideal light input throughout the year.



The ideal temperature for your house - comfort and coolness are

soo PLANITHERM® 4S Evolution enables a perfect symbiosis between the infusion of natural light and cool inside thanks to the reflection degree of up to 62%, even in the case of large glass surfaces. This benefit of the PLANITHERM® 4S Evolution glass to maintain an optimal temperature indoors is reflected into a lower energy consumption due to the diminished rate of using the air conditioning.

100 PLANITHERM® 4S Evolution sets new window design standards to the detriment of unaesthetic blinds, while providing a light input essential to the quality of life.

Also, the increased thermal comfort enables the use of large glazed surfaces by accessing new contemporary architectural exterior design trends.



... PLANTTHERM® 4S Evolution represents a further step on the evolutionary scale of the PLANITHERM family comfort products, providing a three times higher insulation than ordinary double glazing. The main advantages during cold season are the warmth and the comfort ensured by this With ... PLANTTHERM® 4S. Evolution, heat loss will decrease



The double-glazed window with son PLANITHERM® 4S Evolution provides all the necessary comfort regardless of climate changes characteristic to the season.

and the cold areas close to

windows will be imperceptible.



With son PLANITHERM® 4S Evolution the transition towards the cold weather becomes imperceptible. thus being ensured the comfort and cutting of early heating costs.



Substantial savings – an effective thermal insulation means reduced energy consumption. With  $_{500}$  PLANITHERM\* 4S Evolution, the cooling and heating costs are significantly reduced!

Amounts saved annually\* (RON)

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	Using thermally insulated son Plantherm* 45 Evolution glass, Comparing to the simple Clear glass (one glazing unit)			
House type	Studio		Apartment 3 rooms	
Amount Saved (RON)	1028	1460	2374	

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	Using thermally insulated son Planitherm® 4S Evolution glass, Comparing to the classical thermally insulated Clear glass LowE (double glazing units)			
House type	Studio	Apartment 2 rooms	Apartment 3 rooms	
Amount Saved (RON)	203	456	557	

"Calculations are performed using the PRASCAC" program, the margins of error being of approx. 4, 5%, Results databased will vary depending on the water Crimate even, summer crimate care, pisions weekly, Ambrega end facing of buildings of. The bables waters present the money savings mate are got through the replacement of other more advanced plainty, John pathaned based on an energia or Refer Not 0.4339 / Khir (CD staff — moneyald type).

\*\*The Bermal transfer creditions 11-1.0 (First \* databased thread multidates) observable of permanent behaving approximate or certificates to the

# Performances\*

	Light transmission TL [%]	Solar factor, g	Thermal transfer coefficient, U [W/mpK]
sss PLANITHERM® 4S Evolution	60	0.38	1.0

<sup>\*</sup> DGU: 4mm sos PLANITHERM® 4S Evolution, face #2 - 16 Argon 90% - 4mm sos Planilux®

Available thickness	4 mm	6 mm	8 mm	10 mm
ssa PLANITHERM® 4S Evolution	•	•		Upon demand

## Additional Features

The windows with  $_{500}$  PLANITHERM® 4S Evolution may also fulfill additional features in combination with other types of glass:

### afety and Security

-In combination with son STADIP®, son STADIP® PROTECT
-In laminated form son STADIP® 4S Evolution

### Acoustic Insulation

-In combination with soo STADIP® SILENCE

# Rules and Regulations

SGO PLANITHERM® 4S Evolution meets the durability requirements of the European standard C category EN 1096, 1 and 2.



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