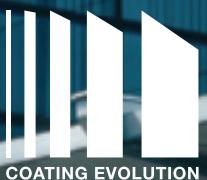




SELECTIVE PYROLYTIC GLASS



SUNERGY



# Excellence in Aesthetics

Sunergy is a pyrolytic coated glass that combines solar control with thermal insulation. It is an excellent response to current architectural trends, thanks to its neutrality and low reflection.

**Sunergy offers the following properties:**

- superb solar control
- brilliant aesthetics
- low emissivity properties (low U-value)
- easy processing (hard coating)



*Sunergy Clear – “Bolle” Nardini distilleries research & event centre – Bassano del Grappa, Italy –  
Architect: Massimiliano Fuksas – Studio Fuksas*

*Cover picture: Sunergy Azur – Exatel Perkuna – Warsaw, Poland – Architect: Archico project*

# Creativity without Limits

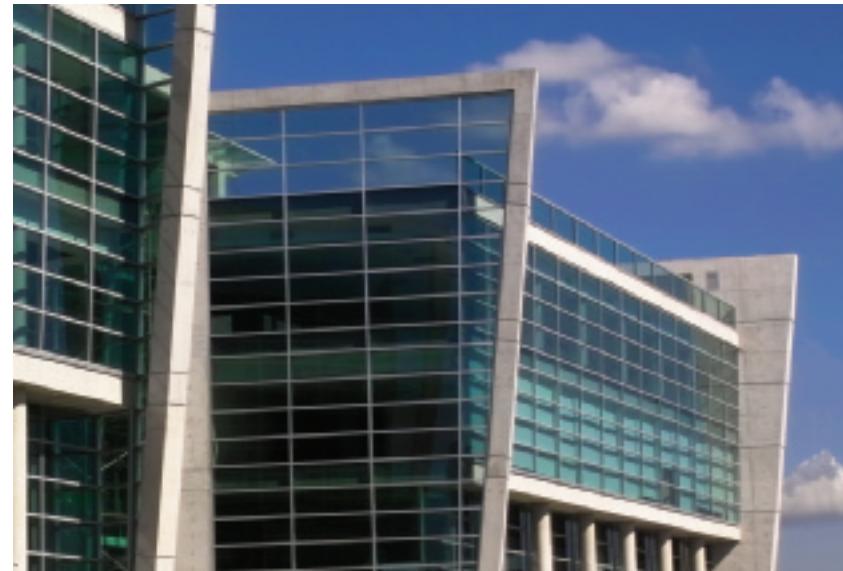
Sunergy can overcome the most difficult architectural challenges. Its processing qualities make it a favourite choice for complex constructions. No surprise that Sunergy is used in award-winning contemporary architecture.

Sunergy has a very neutral shade and low light reflection. These unique aesthetics are perfectly in line with the modern trend in architecture.

**BLACKPEARL** is the perfect solution for spandrel glazing units with a Sunergy product as the outer sheet. Both vision and spandrel sections of the façade will match perfectly.

## International Prestige

Sunergy has quickly become a worldwide reference with major projects in Russia, India, Brazil, Australia, South Africa, China and elsewhere. The durable coating means it is easy to transport around the world and its thermal properties suit all types of climates whether in single or double glazing.



Sunergy Green – Barra Trade III – Rio de Janeiro, Brazil –  
Architect: Ecotech

[Most Beautiful Building of Rio de Janeiro Award 2005](#)



Sunergy Clear – Administrative Palace of Moscow Region – Moscow, Russia



# From market niches to prestigious projects

Sunergy can be used in a wide range of applications. Its versatility is a key strength.

## **Offices**

Its brilliant aesthetics and technical properties make it a perfect candidate for offices and building façades.

## **Residential**

In most tropical climates, Sunergy is very suitable for use in residential applications in single or double glazing.

## **Shop Windows**

The neutral appearance of Sunergy means that it is suitable for shop windows. Sunergy can lead to important cost savings in air conditioning and heating bills thanks to its solar control and thermal insulation properties.

## **Car Showrooms**

Sunergy can be used in single glazings and in very large dimensions. The prestigious cars are displayed at their best thanks to Sunergy aesthetics and low reflection.

## **Airports**

Sunergy is prized in airports for its neutrality, performance and low reflection. It is used in single or double glazing in many airports:

- Ankara (Turkey): Sunergy Green
- Rio de Janeiro (Brazil): Sunergy Green
- Riga (Latvia): Sunergy Azur
- Bangkok (Thailand): Sunergy Clear

## **Double-skin Façades**

Sunergy can be used in double-skin façades as the outer sheet. This way overheating can be avoided in the buffer zone.

## **Conservatories**

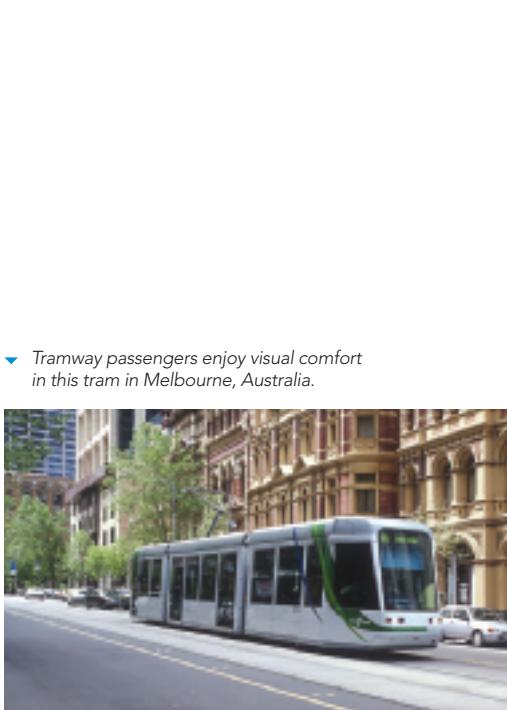
Sunergy is also very popular for conservatories for its neutrality and good balance of solar control (summer) and thermal insulation (winter).

## **Tramway Windows**

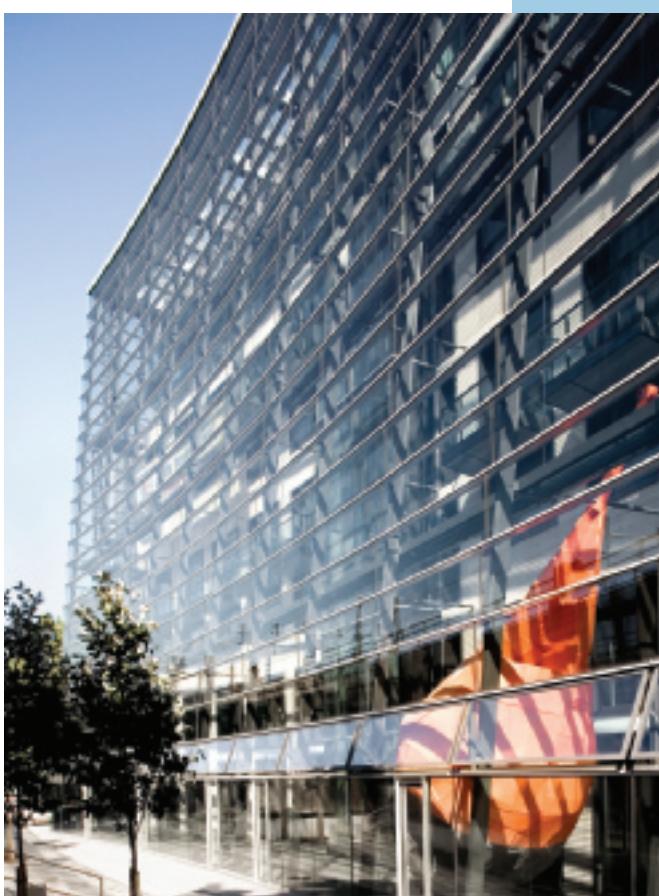
Sunergy can easily be curved and laminated in very specific applications requiring security and thermal performances.



Sunergy Green ▲  
Galeria Inno shopping center – Brussels, Belgium



▼ Tramway passengers enjoy visual comfort  
in this tram in Melbourne, Australia.



Sunergy Clear in double-skin façade monolithic 8 mm. ▶  
Kronprinzenkarre – Berlin, Germany

▼ Sunergy Clear  
Diamond villa residential estate  
Shanghai, China



Sunergy Clear ▼  
Mercedes-Benz car showroom – Melbourne, Australia





# Variety of Possibilities

Sunergy offers the advantages of a pyrolytic coating:

- no edge deletion
- leaves no scratches on the glass
- problem-free stacking and storage
- multiple processing possibilities  
(tempering, curving, laminating, silkscreen printing, ...)
- can be used as single or double Glazing
- can be combined in a "Smart Combination"

Thanks to SUNERGY's pyrolytic coating glass processors have no problems meeting the most advanced architectural requirements. This is thanks to the extremely hard coating that can easily satisfy a variety of applications.

## **Assembly**

The complete range of SUNERGY glasses can be assembled into double glazing.

When SUNERGY is made into a double glazed unit the solar control and heat-insulating properties are improved.

## **Laminated**

The complete range of SUNERGY glasses can be laminated. If used as single laminated glass we recommend the coating is glazed in position 4 in view of the technical properties. Laminated glass comprises of two or more sheets of glass, bonded together by one or more layers of PVB, or Stratophone acoustic interlayers.

AGC Flat Glass Europe supplies laminated SUNERGY for safety (Stratobel) or noise reduction (Stratophone) applications with AGC Flat Glass Europe warranty.

Sunergy Clear – Kenzo building (LVMH Building) – Paris, France –  
Architect: Bureau d'architecture Jean-Jacques Ory

**Winner of MIPIM Award 2004**

### **Tempered or Heat-strengthened**

The complete range of SUNERGY glasses can be tempered or heat strengthened.

### **Curving**

The complete range of SUNERGY glasses can be curved.

### **Enamelling and Silkscreen Printing**

The complete range of SUNERGY glasses can be enamelled and silkscreen printed on the non-coated side (some conditions do apply).

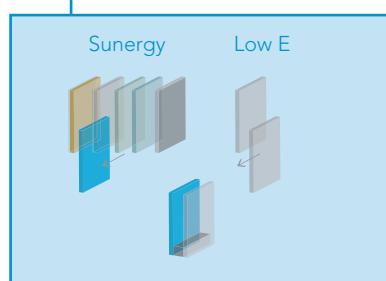
	Sunergy Clear	Sunergy Green	Sunergy Azur	Sunergy Dark Blue
Laminated*	•	•	•	•
Double glazing	•	•	•	•
Toughened	•	•	•	•
Curved	•	•	•	•
Screen-printed**	•	•	•	•

\* after toughening

\*\* some conditions do apply

### **Smart Combinations**

A Smart Combination is an optimal assembly combining a solar control coated glass (Sunergy) with a low-emissivity glass (Planibel Top N+/NT or G / Gfast). This Smart Combination allows you to improve the solar factor and the U-Value of the double glazing unit (see performances table on page 11).





## ■ AVAILABILITY

Availability of SUNERGY in single glazing:

Product	Nominal thickness* (mm)	Max. dimensions for manufacturing (mm)
Sunergy Clear	3 - 4 - 6 - 8 - 10	6000 x 3210
Sunergy Green	6 - 8 - 10	6000 x 3210
Sunergy Azur	4 - 6 - 8 - 10	6000 x 3210
Sunergy Dark Blue	6 - 8	6000 x 3210

\* For other thicknesses and dimensions please contact AGC Flat Glass Europe.

Sunergy is also available in laminated version Stratobel:

- up to 1010.x
- mixed with clear or tinted float
- standard PVB or acoustic Stratophone.

*Sunergy Azur – Naberezhnaya Tower – Moscow, Russia –  
Architect: RTKL UK, ENKA, Natal*



Type of glass	Position of the Sunergy® coating	Thickness (mm)	Colour index RD65	Light properties			Energy properties			Ug-Value W/m².K 90% Argon	American standards*								
				LT%	Ext	Int	UV (%)	DET (%)	ER (%)	EA (%)	SF (%)	Shading coefficient							
Sunergy	Clear	2	3	98	69	9	10	43	56	10	34	63	0,72	0,65	0,07	4,2	4,33	4,67	493
		2	4	98	69	9	10	41	56	10	34	62	0,71	0,64	0,07	4,2	4,31	4,64	481
		2	6	97	68	9	10	38	54	9	37	60	0,69	0,62	0,07	4,1	4,31	4,59	468
		2	8	97	67	9	10	36	52	9	39	59	0,68	0,60	0,08	4,1	4,29	4,54	462
		2	10	96	66	8	10	33	50	9	41	58	0,67	0,58	0,09	4,1	4,27	4,49	455
	Green	2	6	88	56	7	10	12	31	6	63	42	0,48	0,36	0,12	4,1	4,55	4,59	338
Sunergy	Clear	2	8	85	52	7	9	8	26	6	68	38	0,44	0,30	0,14	4,1	4,55	4,54	313
		2	10	82	48	7	9	6	22	5	73	36	0,41	0,25	0,16	4,1	4,55	4,49	294
	Azur	2	4	91	60	8	10	25	40	7	53	50	0,57	0,46	0,11	4,2	4,51	4,64	406
		2	6	88	56	7	10	20	34	6	60	45	0,52	0,39	0,13	4,1	4,53	4,59	363
		2	8	84	52	7	9	16	29	6	65	41	0,47	0,33	0,14	4,1	4,53	4,54	331
		2	10	80	48	7	9	13	26	6	68	38	0,44	0,30	0,14	4,1	4,51	4,49	312
Sunergy	Dark Blue	2	6	78	40	6	9	16	26	6	68	38	0,44	0,29	0,15	4,1	4,59	4,59	327
		2	8	72	35	6	9	12	21	5	74	35	0,39	0,23	0,16	4,1	4,54	4,60	300

**Double Glazing**

Sunergy	Clear	2	6-16-4	96	61	12	16	31	46	12	42	52	0,60	0,53	0,07	1,8	2,04	1,89	400
Sunergy	Green	2	6-16-4	87	51	10	16	10	27	7	66	33	0,38	0,31	0,07	1,8	2,18	1,89	268
Sunergy	Azur	2	6-16-4	87	50	10	16	17	30	8	62	36	0,41	0,34	0,07	1,8	2,16	1,89	285
Sunergy	Dark Blue	2	6-16-4	77	37	8	16	13	23	6	71	29	0,33	0,26	0,07	1,8	2,21	1,9	239

**Double glazing filled with 90% Argon with Planibel TOP N+ coating in position 3**

Sunergy	Clear	2	6-16-4	96	59	11	15	14	37	15	48	44	0,51	0,43	0,08	1,1	1,37	1,27	324
Sunergy	Green	2	6-16-4	87	49	9	15	5	24	7	69	29	0,33	0,28	0,05	1,1	1,37	1,43	212
Sunergy	Azur	2	6-16-4	86	49	9	15	9	26	8	66	32	0,37	0,30	0,07	1,1	1,37	1,41	227
Sunergy	Dark Blue	2	6-16-4	77	35	7	15	7	19	7	74	25	0,29	0,22	0,07	1,1	1,37	1,46	187

