

STOPRAY SMART

The best coatings for solar control and thermal insulation



AGC Obeikan Glass presents its top-class magnetron-coated glazings: Stopray Smart 30 and Stopray Smart 51. With a silver layer that provides maximum solar control and thermal insulation, these products offer a neutral and coloured appearance. Furthermore, Stopray Smart 30 and Smart 51 products can be used in a heat-treated or annealed version and do not require any edge-deletion of the coating*.

Stopray Smart 30 and Smart 51

What's so special about it?

What does this mean for you?

New generation of coatings combining high level of solar control and thermal insulation

- Broad choice of glass products featuring a U_g -value of $1.4 \text{ W/(m}^2\text{K)}$ (details can be referred to performances table)
- Good balance between a high level of natural light and a low level of heat throughput
- Easy to maintain pleasant indoor temperatures while reducing air conditioning costs
- Lower heating costs

Stopray Smart coatings have been developed for exterior applications in facades on all types of commercial buildings

- Meet your aesthetic and functional requirements

Attractive neutral and coloured appearance

- In line with current architectural trends
- Stopray Smart 51 has a neutral colour, whereas Stopray Smart 30 has an attractive neutral bluish colour
- Stopray Smart 30 and Smart 51 coatings are available on three coloured substrates of superior aesthetics: Bronze, Green and Grey

Low interior light reflection

- Guarantee a neutral aspect and a perfect view towards the outside world

One product: two uses

- Stopray Smart 30 and Smart 51 products can be used heat-treated or annealed
- The choice depends on the building specification
- Light, energy and thermal properties are the same for a heat-treated or annealed version
- One product in stock, less storage space required

No edge deletion needed*

- Easy and fast to process
- Remarkable appearance when used in a structural facade

Additional combinations

- Stopray Smart 30 and Smart 51 on neutral and coloured float are used exclusively in double glazing
- They can be laminated by a glass processor*

* Please follow the processing instructions in the "Stopray Smart 30 and Smart 51 Processing Guide" that can be found on www.agc-obeikanglass.com.sa and www.agc-yourglass.com

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Performances*

Product name	Coating position	Colour rendering index (%)	EN 410						EN 673 U _v -value W/(m²K)	American Standards					
										NFRC 200 & NFRC 300				NFRC 100	
			LT %	SF %	LR % External	LR % Internal	EA %	SC		SC	SHGC	RHG (W/m²)	LSG	U-Factor winter W/(m²K)	U-Factor summer W/(m²K)
Insulating double glazing unit 6-12-6 Clear float** with 100% Air															
Stopray Smart 30	Position 2	95	30	22	29	15	46	0.25	1.6	0.25	0.22	172	1.36	1.71	1.67
Stopray Smart 30 on Bronze	Position 2	92	17	16	12	15	73	0.18	1.6	0.20	0.17	138	1.00	1.71	1.67
Stopray Smart 30 on Green	Position 2	86	24	17	21	15	75	0.20	1.6	0.21	0.18	142	1.33	1.71	1.67
Stopray Smart 30 on Grey	Position 2	91	14	15	10	15	77	0.17	1.6	0.18	0.16	132	0.88	1.71	1.67
Stopray Smart 51	Position 2	95	51	34	26	17	32	0.39	1.6	0.38	0.33	250	1.55	1.70	1.66
Stopray Smart 51 on Bronze	Position 2	94	29	23	11	16	65	0.26	1.6	0.26	0.23	183	1.26	1.70	1.66
Stopray Smart 51 on Green	Position 2	86	42	25	19	17	67	0.29	1.6	0.29	0.25	193	1.68	1.70	1.66
Stopray Smart 51 on Grey	Position 2	91	24	21	9	16	70	0.24	1.6	0.25	0.22	171	1.09	1.70	1.66
Insulating double glazing unit 6-16-6 Clear float** with 100% Air															
Stopray Smart 30	Position 2	95	30	22	29	15	46	0.25	1.4	0.25	0.22	167	1.36	1.75	1.42
Stopray Smart 30 on Bronze	Position 2	92	17	15	12	15	73	0.17	1.4	0.20	0.17	132	1.00	1.75	1.42
Stopray Smart 30 on Green	Position 2	86	24	16	21	15	75	0.18	1.4	0.20	0.17	136	1.41	1.75	1.42
Stopray Smart 30 on Grey	Position 2	91	14	14	10	15	77	0.16	1.4	0.18	0.16	126	0.88	1.75	1.42
Stopray Smart 51	Position 2	95	51	34	26	17	32	0.39	1.4	0.37	0.32	246	1.59	1.74	1.41
Stopray Smart 51 on Bronze	Position 2	94	29	22	11	16	65	0.25	1.4	0.26	0.23	177	1.26	1.74	1.41
Stopray Smart 51 on Green	Position 2	86	42	25	19	17	67	0.29	1.4	0.28	0.24	187	1.75	1.74	1.41
Stopray Smart 51 on Grey	Position 2	91	24	20	9	16	70	0.23	1.4	0.24	0.21	165	1.14	1.74	1.41

* The calculations were made with AGC Glass Configurator available at www.agc-yourglass.com. All calculations are subject to fabrication tolerances and unit composition.

** The calculations were made based on clear glass substrate from Obeikan plant in Saudi Arabia and Planibel Bronze, Green and Grey glass substrate from AGC Moustier plant in Belgium.

Processing Options

	Heat treatment	Bending	Lamination	Edge deletion	Ceramic frit	Shelf life
Stopray Smart 30	Yes	Yes	Yes	No*	Yes	12 months
Stopray Smart 30 on Bronze	Yes	Yes	Yes	No*	Yes	12 months
Stopray Smart 30 on Green	Yes	Yes	Yes	No*	Yes	12 months
Stopray Smart 30 on Grey	Yes	Yes	Yes	No*	Yes	12 months
Stopray Smart 51	Yes	Yes	Yes	No*	Yes	12 months
Stopray Smart 51 on Bronze	Yes	Yes	Yes	No*	Yes	12 months
Stopray Smart 51 on Green	Yes	Yes	Yes	No*	Yes	12 months
Stopray Smart 51 on Grey	Yes	Yes	Yes	No*	Yes	12 months

* Please follow the processing instructions in the "Stopray Smart 30 and Smart 51 Processing Guide" that can be found on www.agc-obeikanglass.com.sa and www.agc-yourglass.com

Availability

All Stopray Smart 30 and Smart 51 products are available in different thicknesses and different dimensions.