

HIGH PERFORMANCE  
SOLAR CONTROL  
LOW-E GLASS



**ASAHIMAS**  
AGC Group

STOPRAY

# STOPRAY

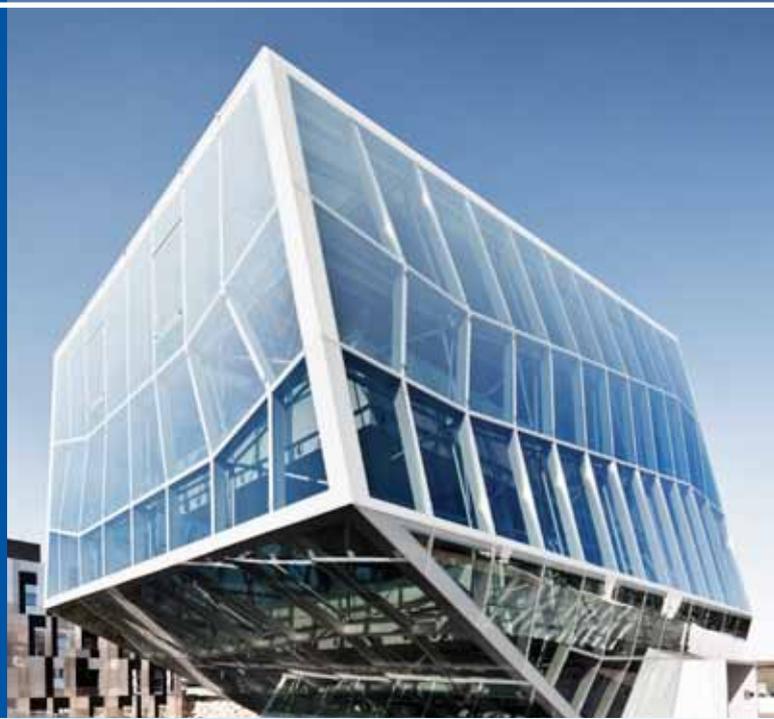
## High Performance Solar Control Low-E Glass

Thanks to the right combination of solar and thermal performances, Asahimas' coated glass has made it possible to combine creativity, aesthetics and façade technology, while addressing today's environmental constraints. It is now time we brought you even more! Asahimas' main focus is always to provide you with the best coated glass possible, totally understanding your present needs and anticipating your future ones...

# STOPRAY

## High Performance Solar Control Low-E Glass

Introducing Stopray, a High Performance Solar Control Low Emissivity glass range which gives excellent selectivity (high transparency with low Shading Coefficient) while retaining a neutral appearance. Stopray is able to deliver maximum energy savings that meet or exceed energy code requirements.



Stopray is a high performance glazing with numerous coatings of silver applied in a vacuum. The Stopray range offers an array of different colors and different degrees of protection from the sun and light transmission and reflection. Stopray is the perfect solution in any climate conditions and for aesthetic effect.

Stopray offers improved balance between visible light transmittance, solar control and enhanced u-values. Not only has the performance been optimized, but the color can enhance the aesthetics of a building's glass façade.

There are four High Performance Solar Control Low E coatings to choose from: Stopray ACE 52/26, Stopray ACE 60/32, Stopray SMART 51/33, Stopray SMART 30/20. Both Stopray ACE and SMART are also available in temperable and non temperable versions, depending on how the building is specified and offer fast & efficient supply ability.

All Stopray coatings are designed to be used on the #2 surface (coating facing air space) of an insulating glass unit.

### Stopray – a major innovation

Other than offering super solar control (low Shading Coefficient) and thermal insulation, Stopray Smart can be used in toughened or non toughened versions. The toughened and non toughened versions deliver same energy, light and insulation performance.

Furthermore, no edge deletion is required; it makes this product easier to process. It greatly facilitating any subsequent processing of the glass and also yielding a remarkable appearance.



## Local Processed for Better Efficiency

Asahimas is offering new optimized and efficient model: local processing (tempered/insulated glass unit/laminate) on local site. It allows all processing operations can be decentralized. As a result, the logistics chain is more flexible and can better react to the unforeseen circumstances that typically arise in any project. Asahimas supplies products that can be stored by processors and enable them to provide their clients with a better service: rapid turnaround and the ability to deliver small quantities and replacements. All this results in more time, more money and better efficiency at all levels.

## Applications

Stopray coated glass is designed for use in windows, curtain walls and structural glazing facades. It can be used in both transparent (windows) and opaque (spandrels) sections of the facade. Stopray is designed to be used purely as insulating glazing.

## Features

- Stopray solar-control glazing with thermal insulation is ideal for all climates
- Superior selectivity (ratio between light transmittance and solar factor) up to 2.0
- Provides a Shading Coefficient of up to 0.24
- Enhanced thermal insulation (u-value) of 1.6
- Local processing for shorter lead time and efficient supply
- Easy processing, no edge deletion (for Stopray Smart)
- One product: two uses – a single product with two uses (toughened and non toughened)

## STOPRAY SMART

Type	Appearance	Light Characteristic		Energy Absorption %	Solar Factor %	Shading Coefficient	U Value (W/m <sup>2</sup> K)
		Transmittance %	Reflect Out %				
8mm Stopray Smart 51/33 #2 + AS 12 + 6 mm Clear	Neutral Greyish	50	25	41	32	0.37	1.6
8mm Stopray Smart 30/20 #2 + AS 12 + 6 mm Clear	Neutral Bluish	29	28	53	21	0.24	1.6

Size Availability 3210mm x 2250mm, 5100mm x 3210mm  
 Thickness Availability 6mm & 8mm

## STOPRAY ACE

Type	Appearance	Light Characteristic		Energy Absorption %	Solar Factor %	Shading Coefficient	U Value (W/m <sup>2</sup> K)
		Transmittance %	Reflect Out %				
8mm Stopray Ace 52/26 #2 + AS 12 + 6 mm Clear	Neutral Bluish Silver	52	24	36	26	0.30	1.5
8mm Stopray Ace 60/32 #2 + AS 12 + 6 mm Clear	Neutral Bluish	60	17	34	32	0.37	1.5

Size Availability 144" x 84", 144" x 100", 150" x 84", 150" x 100"  
 Thickness Availability 6mm & 8mm

### Remarks

- The data are calculated using spectral measurements that are conform to standards EN 410 (1998), ISO 9050, WIS/WINDAT, Illuminant A observer 20 CIE 1931.
- Energy properties according to ISO / DIS 9050, NFRC 100-2001 and/or EN 410.
- U value (formerly k-value) is calculated according to standard ISO EN 673 and/or NFRC 100-2001 conditions.
- Ultra Violet Transmittance according ISO/DIS 9050 table 4, DIN 67507 clause 6 table 4, pr-EN 410 table 3 (280nm-380nm).
- This document is no evaluation of the risk of glass breakage due to thermal stress. For tempered glass the risk of spontaneous breakage due to Nickel-Sulfide is not covered by PT Asahimas Flat Glass Tbk. The Heat Soak Test is available on request.
- Specifications, technical and other data are based on information available at the time of preparation of this document and are subject to change without notice. PT Asahimas Flat Glass Tbk can not be held responsible for any deviation between the data introduced and the conditions on site.

