

DESIGN

Anti-Reflective Glass SSG® AR Glass



Bvlgari,
Marina Bay Sands,
Singapore

unwanted reflections or mirror-like effects. It is thus used in structures where the crystal-clear quality of glass is key, such as retail displays, stadiums, and viewing galleries.

SSG® AR Glass provides a new dimension for glass as it is seemingly invisible with almost no reflectance or colour distortions in transmission. Produced with a durable multi-layered optical thin coating with Magnetron Sputtering Technology which performs like hard

coating, it can be tempered, laminated, double-glazed or silkscreen printed. SSG® AR Glass is available on regular float, low iron and tinted green and grey float glass. For laminated glass application, single side coated SSG® AR Glass should be used with the uncoated side facing the interlayer.

SSG® AR Glass is an anti-reflective coated glass that provides improved visual transmission, picture clarity and reduced glare with its very low residual reflection. Traditional glass reflects about 8% of the incident light. SSG® AR Glass, however, reflects only about 0.5% of the incident light, allowing 99.5% of light to pass through without

PERFORMANCE INFORMATION :

Performance comparison of Anti-Reflective product

Glass Make-up	Light Trans. (%)	Reflect (out) (%)	Solar Energy Trans. (%)	Solar Energy Ref. (%)	SC	U-Value (W/m²K) (Summer)
6mm Low Iron Glass	91	9	89	8	1.03	5.70
6mm Clear with Anti-Reflective on surfaces #1 and #2	97	1	78	12	0.93	5.21
13.52mm Clear Laminated with Anti-Reflective on surfaces #1 and #4	94	1	66	10	0.84	5.00
6mm Low Iron with Anti-Reflective on surfaces #1 and #2	98	1	85	13	0.98	5.21
13.52mm Low Iron Laminated with Anti-Reflective on surfaces #1 and #4	97	1	78	12	0.93	5.00

Additional Information

Residual Reflection	<0.5% of Anti-Reflective coated on both surfaces
Colour of Residual Reflection	Neutral
Colour Consistency in Transmittance	No colour shift

SPECIFICATIONS : Production Sizes

	Glass Thickness (mm)	Minimum Size (W/mm x H/mm)	Maximum Size (W/mm x H/mm)
SSG® AR Glass	Standard Clear, Low Iron: 2 to 12 Green, Grey Tinted: 6	300 x 300	2,500 x 5,700
SSG® AR Glass Laminated	Varies		2,500 x 5,700

PRODUCT FEATURES

DURABILITY

SSG® AR Glass is produced by Magnetron Sputtering Technology which creates a superior hard coating finish. The multi-layered coating of metal oxide does not corrode, but is hard wearing and durable. In terms of abrasion resistance, SSG® AR Glass is comparable to regular clear float glass.

HIGH VISIBLE LIGHT TRANSMISSION

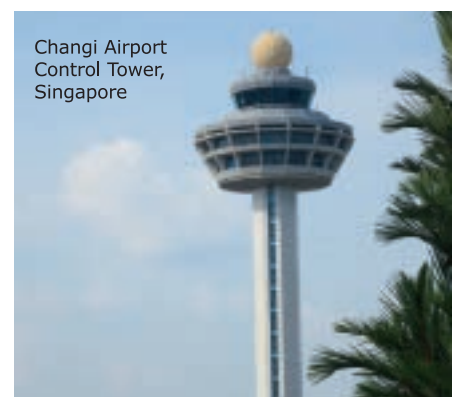
SSG® AR Glass improves transparency and increases light transmission with its high degree of clarity and non-reflective surface.

OPTICAL CLARITY

SSG® AR Glass reduces glare, mirror-like effects and reflections to a minimum. With a reflection of less than 0.5%, the non-reflective properties are optimised for direct viewing through the glass, making it almost invisible.

USES AND APPLICATIONS

- Airport enclosures
- Building façades
- Control and surveillance rooms
- Hotels
- Information displays
- Interior decoration
- Picture frames
- Point of purchase displays
- Scenic restaurants
- Shopping malls
- Shop fronts and showcases
- Stadium VIP lounge



Changi Airport
Control Tower,
Singapore

APPLICABILITY

SSG® AR Glass can be used in laminated or insulated glass to provide further mechanical strength and safety.