



**SCHOTT**  
glass made of ideas

**AMIRAN®**

Anti-reflective glass

SCHOTT is an international technology group with more than 125 years of experience in the areas of specialty glasses and materials and advanced technologies. With our high-quality products and intelligent solutions, we contribute to our customers' success and make SCHOTT part of everyone's life.

SCHOTT works closely with architects and designers to extend the boundaries of design and create new opportunities for building culture – in terms of design and space, indoors and outdoors, for solar power and fire protection, aesthetics and functionality – sustainable and custom tailored. That's what makes SCHOTT a qualified partner for architecture and design.

SCHOTT AMIRAN® is an anti-reflective glass with an interference coating on both sides, ensuring a clear view both day and night. Its durable, high-tech coating reduces reflections to less than 1 percent and allows up to 98 percent of the light to pass unobstructed through the glass.



## A clear view of what counts

### Low in reflection, superb color rendition, nearly invisible

SCHOTT AMIRAN® anti-reflective glass with crystal clear transparency, even with a significant difference in the amount of light in front of and behind the pane. It reduces reflections to just a fraction of those seen with conventional glass. This makes AMIRAN® anti-reflective glass the material of choice for display windows and showrooms, museums and glass cabinets, VIP seating areas in stadiums and panorama restaurants, television and recording studios, façades and balustrades, lobbies and foyers.

Sizes up to 148 7/16 × 69 11/16 inches (3,770 × 1,770 mm) ensure transparency on every front. The boundaries between the outside and inside dissolve, giving you the highest possible freedom of design. Canopies or other structures designed to avoid reflections are no longer necessary. What is more: increased daylight inside will lower your energy costs and lighting expenditures. Using low-iron glass as the substrate ensures true color rendition.

#### Innovative technology

All of this is made possible by the sol-gel dipping process developed by SCHOTT. The glass is successively dipped in metal oxide solutions. The drying speed determines the thickness of the layer – with the highest precision.

#### Hard coating

Once dried, the metal oxide coating layers are burned in at 450° to 500° Celsius. Interference between the oxide layers eliminates reflections. These layers are actually much purer and more stable than those processed with conventional PVD techniques (such as vapor deposition or sputtering, for example).

#### Durable and easy to keep clean

This translates into excellent optical qualities and is what makes AMIRAN® anti-reflective glass so incredibly durable. The coating resists both scratching and chemicals, making AMIRAN® easy to clean using commercially available glass cleaners.

#### AMIRAN®

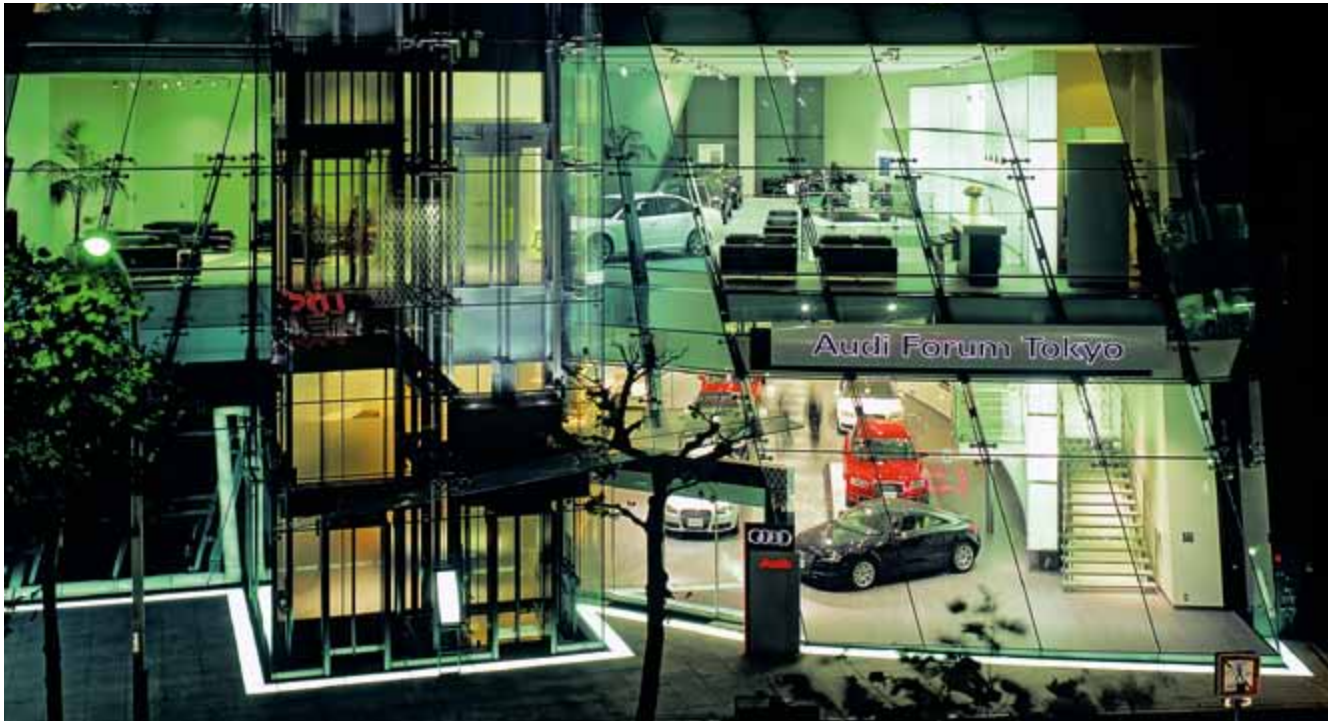
- > Maximum reflection blocking on both sides
- > < 1 % residual reflection
- > Up to 98 % transmission
- > Durable, easy to clean and chemically stable
- > CE certified
- > Available in a variety of different substrate glasses
- > Several processing options (as safety glass, laminated safety glass or insulated glass units, for example)

Left: Thompson Boling Arena at the University of Tennessee, Knoxville

Right: Museum of Islamic Art, Doha, Qatar  
Photo: zedphoto.com







Audi Showroom, Tokyo

## SCHOTT AMIRAN®

### Diverse and one-of-a-kind

The range of applications for AMIRAN® anti-reflective glass goes even further thanks to the many different processing options SCHOTT offers. AMIRAN® anti-reflective glass can be bent, printed on or drilled. It can be tempered (annealed glass) or processed into safety glass or laminated safety glass. The result is an insulated glass that is nearly reflection-free and features either thermal insulation, sun or noise protection coating or even special solutions to meet even the most stringent safety requirements. Need 99 percent UV protection? No problem. SCHOTT can develop customized AMIRAN® anti-reflective glass solutions to suit your project.

Please contact us.

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