

SCHOTT MIRONA® – Semi-Transparent Mirrored Glass

The switch from glass to mirror

When the space behind the glass is dark, SCHOTT MIRONA® glass is an elegant mirror. Light of a display transforms it into a transparent window – a surprising phenomenon that enables sophisticated staging of spaces and objects.

Processing options

Thermally strengthened glass / thermally tempered safety glass / laminated safety glass / insulating glass

MIRONA® is a mineral glass that has been coated on one or on both sides with an optical interference layer to enable a defined reflection and transmission. MIRONA® is available on extra-clear low-iron float glass. On customer request, MIRONA® semi-transparent mirrored glass can be supplied as thermally tempered or processed into laminated safety glass. MIRONA® glass can be cleaned using a normal glass cleaning agent or a towel that has been moistened with a 1:1 mixture of denatured alcohol and water.

Product advantages

- Homogenous appearance with respect to reflection and transmission
- Low absorption losses
- Reflects an elegant, silvery color
- Can be thermally strengthened (all types of MIRONA®)
- All types (except MIRONA® Standard only indoors) can be installed indoors and outdoors (DIN EN 1096-2; Class A)
- Easy to clean
- Can be processed into laminated safety glass (all types of MIRONA®)

Applications

Product range

Product	Description	Light transmittance	Visual reflectance
		τ_{VA} %	ρ_{VA} %
MIRONA® Standard	Extra-clear low-iron float glass coated on both sides with an optical interference layer that enables defined reflection and transmission.	63 ± 5	34 ± 5
MIRONA® High Reflective	Extra-clear low-iron float glass coated on both sides with the “High Reflective Coating”. This optical interference layer enables higher reflection and defined transmission.	42 ± 5	55 ± 5
MIRONA® Beamsplitter	Extra-clear low-iron float glass with an anti-reflective coating on one side and the “High Reflective Coating” on the other. This allows for a defined reflection and transmission with virtually no annoying double reflection.	59 ± 5	36 ± 5
MIRONA® High Reflective – One side coated	Coated on one side only to produce MIRONA® Beamsplitter as laminated safety glass.	57 ± 5	40 ± 5

Dimensions and thickness

Dimensions (net)	Thickness	Thickness tolerance
mm × mm (min.) (inches x inches) (min.)	mm (inches)	mm (inches)
1,770 × 1,220 (69.7 × 48.0)	2, 3, 4 and 6 (1/16, 1/8, 5/32 and 1/4)	± 0.2 (± 0.01)
3,180 × 1,770 (125.2 × 69.7)	3, 4 and 6 (1/8, 5/32 and 1/4)	± 0.2 (± 0.01)



Horstmann + Sander Shop, Hanover (Germany):
Presentation screen behind MIRONA® glass

- Consumer electronics, cover panels for use in televisions, data display devices and projection screens, etc.
- Architecture, partition walls and design elements, etc.
- Lighting industry, light covers, etc.

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Project: Elbphilharmonie
Location: Hamburg, Germany

The concert hall at the river Elbe, designed by Swiss architects Herzog & de Meuron, is stunningly styled, bursting above the skyline like a firework.

A key task in the project development for the interior of this impressive building was to achieve architectural accents that also delight onlookers. A concept was required for stylish TV displays throughout the building to serve both as information displays and as decorative design elements.

32 circular TV mirror displays with diameters of 90, 140 or 169 cms have been developed to produce a stunning interior effect.

The basis of the design is the semi-transparent MIRONA® mirror glass from SCHOTT. This allows an interplay between a mirror and a transparent glass for transmitting information.



Project: German Book and Script Museum
Location: Leipzig, Germany
Architect: Iglhaut + von Grote

A celebration marked the opening of the German Book and Script Museum's new permanent exhibition in Leipzig in March 2012.

The core element of their approach was to make the dynamic development of mass media over the last 100 years able to be experienced and to allow the viewer to become part of the presentation.

Five individual freestanding white showcases positioned in the room portray the history and importance of scripts and book printing. In order to present the mass media of the 20th century, a large black display case 21 m in length and 2.8 m high was selected.

The black display case made of 17 panes of the reflective, semi-transparent glass MIRONA® is mounted to an exposed concrete wall. Objects and media images can only be seen when they are illuminated for a brief moment.

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glass made of ideas