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 toughened 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 in extra-clear low-iron float glass or grey 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.

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

Product advantages

- Homogenous appearance with respect to reflection and transmission
- Low absorption losses
- Reflects an elegant, silvery color
- Available in various types of base glasses
- Can be thermally toughened (MIRONA® standard)
- Can be processed into laminated safety glass
- Easy to clean

Applications

- 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.

Product range

Product	Description	Light transmittance τ_{vA} %	Visual reflectance 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 Grey	Grey float glass (as base glass) coated on both sides with the "High Reflective Coating," an optical interference layer that enables higher reflection and defined transmission.	20 ± 5	42 ± 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) mm × mm (min.)	Thickness mm	Thickness tolerance mm
1,770 × 1,220	4 and 6	± 0.2
3,180 × 1,770	4 and 6	± 0.2

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Project: **Media Column Frankfurter Airport**
Location: Frankfurt, Germany

The Frankfurt Airport Center (FAC) is an exclusive office and conference center that is perfectly located at the Frankfurt Airport.

Nevertheless, the mere size of the complex and the diversity of the services offered here meant that it was very important to help passengers and visitors find their way around. For this reason, the decision was made to install an equally efficient and sophisticated "navigation system" inside the FAC as part of the extensive renovation measures planned.

Both parties decided to produce a large glass cube with multimedia elements that would serve as the main information terminal.

The special properties of MIRONA® that make it simply ideal for use with monitors represent the cornerstone of this solution.

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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