

**SCHOTT**  
glass made of ideas



**MIRONA<sup>®</sup>**

Semi-Transparent Mirrored Glass

Pioneering. Responsibly. Together. These attributes have characterized SCHOTT, manufacturer of special glass, glass-ceramics and other innovative materials, for over 130 years. As #glasslovers and inventor of special glass, we are reliable partners for high-tech industries to enable new market launches and applications. Our goal is to become climate neutral by 2030.

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, aesthetics and functionality. That's what makes SCHOTT a qualified partner for architecture.

**Cover:** Media Column Frankfurter Airport  
**Right:** Wormland display case in the Europa  
Passage shopping mall in Hamburg, Germany,  
with backlighting turned off





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



# From sight to insight

## The switch from glass to mirror

One glass, two purposes: One moment, SCHOTT MIRONA® glass is a stylish, shimmering mirror of silver; the next, it offers unimpeded views in and out. It's an amazing effect, and unlike other switchable glass products, this effect results solely from the coatings of MIRONA® glass. The brightness behind the glass determines what you see.

MIRONA® is a mineral glass that has been coated on one or on both sides. It has low absorption losses and is extremely homogeneous reflective and transmissive properties. Due to its optical interference coatings, it has defined states of reflection and transmission. This physical principle makes MIRONA® an ideal choice for creating eye-catching effects.

### **Stunning presentation**

MIRONA® glass is a particularly good choice for shop windows and displays. When placed behind a front sheet of MIRONA®, a dark TV or monitor screen is transformed into a silvery, glittering mirror. Display shelving and show cases, front windows and even whole-wall displays take on a dynamic quality – attracting plenty of attention in the process.

### **Fascinating design possibilities**

MIRONA® can be used for many other purposes: Using MIRONA® glass shelving and show cases, museums can create interactive museum displays. MIRONA® glass has revolutionized the field of industrial product design, opening up a whole new perspective in lighting design and consumer electronics. After all: how stylish is it to have a computer with a screen that just disappears behind a mirror when you turn it off?



### **SCHOTT MIRONA® – Semi-Transparent Mirrored Glass**

- Magically transforms from a mirror to transparent glass
- Maintenance-free
- Durable
- Easy to clean
- Four different types available
- Several processing options (including laminated safety glass and insulating glass)

**Left:** Wormland Europa Passage in Hamburg, Europe

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









MIRONA® in a conference room at BMW AG

## SCHOTT MIRONA® – Semi-Transparent Mirrored Glass

### Versatile application and processing options

SCHOTT produces four different types of MIRONA® glass, offering customers a wide variety of application options. Available on extra-clear low-iron float glass, the different MIRONA® types enable you to select the perfect transmission and reflection properties for your specific application. Different variations allow defined transmission and reflection to be adapted to specific applications. Our customers can virtually eliminate double reflections, which is important in applications such as lighting and teleprompters. The various processing options available make MIRONA® an even more versatile design choice. Single side coating also allows MIRONA® to be used as laminated safety glass.

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# SCHOTT MIRONA® – Semi-Transparent Mirrored Glass

## Technical Data Sheet

**Processing:** 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 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 toughened (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

- 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 $\tau_{VA}$ %	Visual reflectance $\rho_{VA}$ %
MIRONA® Standard	Extra-clear low-iron float glass coated on both sides with an optical interference layer that enables defined reflection and transmission.	$63 \pm 5$	$34 \pm 5$
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.	$42 \pm 5$	$55 \pm 5$
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.	$59 \pm 5$	$36 \pm 5$
MIRONA® High Reflective – One side coated	Coated on one side only to produce MIRONA® Beamsplitter as laminated safety glass.	$57 \pm 5$	$40 \pm 5$

### Dimensions and thickness

Dimensions (net) mm × mm (min.)	Thickness mm	Thickness tolerance mm
1,770 × 1,220	2, 3, 4 and 6	± 0.2
3,180 × 1,770	3, 4 and 6	± 0.2

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