

Mirror

**REFLECTIVE GLASS • LAMINATED GLASS
TEMPERED GLASS • FLOAT GLASS
MIRRORS • LOW-E GLASS
SUNGUARD**

**PATTERNED GLASS • HORTICULTURAL GLASS
SUN PERFORMANCE GLASS • VISION GLASS
SILKSCREENED GLASS
THIN GLASS**

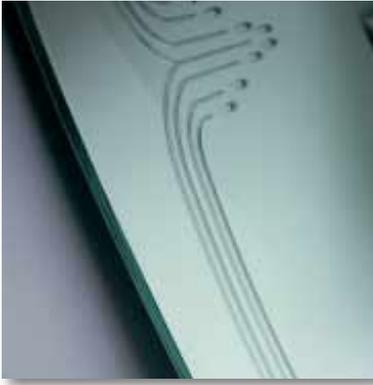


GUARDIAN
A Company of Vision

Light and space ...

Guardian mirrors bring new dimensions into play. Small and confined spaces become bigger. Dark and dull rooms fill up with light. Perfect reflection offers unlimited and new possibilities of decoration. World leader in the manufacture of high quality mirrors, Guardian uses the latest technology in their production. Due to its established commitment to quality, service and continual technological growth, Guardian manufactures mirrors that have proven to be durable and long lasting.





Availability

Guardian mirror is available in many different thicknesses and sizes:

- thicknesses: 2, 3, 4, 5, 6 and 8 mm. 10 mm is available upon request.
- sizes: - Jumbo: from 3210 x 4500 mm to 3210 x 6200 mm;
- split sizes: from 3210 x 1000 mm to 3210 x 2550 mm;
- cut sizes as specified by customer.

For any special requirements, please consult your local sales representative.

Guardian's standard mirror is made of clear float glass. However, on special request, mirror can be made of almost any base glass.

Usually Guardian mirrors are manufactured with a dark blue protective backing paint. Mirrors can be supplied with a white protective backing paint if required.





Storing, mounting and bonding advice

The following guidelines regarding handling, storing and mounting are commonly recommended by most users of mirror. Respecting the few elementary instructions listed here below will help to ensure a long lasting mirror of the highest quality:

- the mirror storage area ought to be dry and adequately ventilated. High humidity and heat, as well as chemical fumes, may damage the mirror;
- store mirrors vertically: do not lay mirrors flat;
- always use gloves when handling mirrors;
- mount mirrors off the wall with an air space behind. This provides ventilation for the backing of the mirror and, thus, inhibits corrosion processes;
- avoid the edges of the mirror from being in contact with stagnant liquids, such as pools of condensation or back-splashes of water from a sink;
- if using silicones to mount mirrors, care should be taken to ensure that the silicone is compatible with the protective backing on the mirror;
- all kind of adhesives should be applied in vertical stripes with regular pressure to the mirror and the area on which the mirror is to be mounted;
- do not use any acid or alkali cleaners to clean mirrors. The protective coatings and the silver layer could be attacked. Instead, use warm water and a soft cloth.





Perfect fit for every application

Guardian's standard mirror is a layer of brilliant silver on clear float glass, protected by a second very thin layer of copper. These layers are then further protected by two coats of backing paint, the outer coat is lead free.

Upon request customers may ask for a copper free protective layer, in which case both coats of backing paint are lead free. Whichever protective layer system is used the coatings will provide the necessary protection of the silvering for long lasting performance.

Guardian mirror finds numerous applications, such as:

- wardrobe door mirrors;
- bathroom mirrors;
- decorative walls;
- furniture applications;
- projection screens;
- display cases.

Typical characteristics

Guardian is known for supplying top quality glass products. As such, Guardian's mirror meets and exceeds all existing quality requirements set by the European mirror norm EN 1036, i.e.:

- **reflectance:** the luminous coefficient of Guardian mirrors is much higher than the 83% requested by EN 1036;
- **optical properties:** Guardian mirror exceeds the requirements concerning vertical and horizontal optical distortion;
- **durability:** the following tests are regularly performed in order to demonstrate the excellent durability characteristics of Guardian's mirror:
 - CASS (Copper Accelerated Acetic Acid Salt Spray) according to ISO 9227;
 - NSS (Neutral Salt Spray) according to ISO 9227;
 - Condensation water test according to normative annex of EN 1036.
- **adhesion:** the adhesion of the paint is regularly checked by the Cross-cut test according to ISO 2409.





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