



**READ THIS
BEFORE OPENING
THE PACKAGING!**

HANDLING & MAINTENANCE
HAMMERGLASS MIRROR GLASS

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Hammerglass® mirror glass is our new generation of high-performance mirrors in 6 mm nano-treated polycarbonate. A durable and abrasion-resistant polycarbonate mirror, 300 times stronger than glass – and virtually unbreakable. The mirror glass is coated with a thin silica film that protects against scratches and wear. Nano technology makes the mirror surface resistant to most chemicals – allowing for easy graffiti removal. The surface treatment also provides UV protection of 99.96%, which means that the material does not cloud, fade or otherwise change in optical quality over time. Hammerglass does not contribute to the spread of fire in the event of fire. With its overall good material properties and only half the glass weight, Hammerglass mirror glass is an excellent choice for both new production and mirror glass replacement.

The manufacturing process for Hammerglass mirrors differs from how ordinary glass mirrors are manufactured. During the process, small black or white marks may appear in the Hammerglass mirrors. These marks do not constitute grounds for complaint (see the section on Quality assessment).

TRANSPORT AND HANDLING

- Sharp tools, blades or objects that may cause scratches must not be used when handling the mirror.
- The Hammerglass foil on the front of the mirror should remain in place until the mirror is installed. Remove the protective foil only after the installation has been completed.
- The surface layer on the back of the mirror should be handled with care. If the back of the mirror is scratched/damaged, the damage will be visible through the mirror surface. Scratches, damage, marks or other problems that occur during installation and use are not covered by the product warranty.
- During transport, the Hammerglass mirror must not be placed on unclean surfaces. Make sure that the mirror is well protected so that dirt, sand or other particles cannot come into contact with the mirror surface and scratch it during transport/handling.
- After installation, the installer shall give this document to the person in charge of maintenance. The persons responsible for future maintenance must be familiar with the content of the document.

INSTALLATION

Adhesives

The Hammerglass mirror can be glued directly to the wall. When gluing, only adhesive recommended by Hammerglass may be used (black Teroson MS 9221). Apply the adhesive directly to the wall (or VERY CAREFULLY to the back of the mirror, using a soft-toothed plastic spatula).

We recommend priming the before gluing...

- ...if the wall substrate is porous
- ...if the wall substrate has an absorbing surface
- ...if the concrete is fresh

Through-going screws

For screw installation, the hole must not be recessed. We recommend ordering the mirror with pre-drilled holes. The screw head should have a flat (not recessed) bottom side and the screw should not be tightened too hard. After installation, seal the mirror with silicone to avoid moisture penetrating behind the mirror. The silicone must not contain acetic acid.

Hammerglass Fixpoint

Mirrors can be ordered with pre-drilled holes and Fixpoint brackets.

Clamp

Bracket/mirror holder must be provided with soft non-scratch gasket.

Large mirrors

For larger mirror surfaces (1500x2000 mm), the mirror glass should be glued to a flat surface (suitable panel is selected depending on the environment) to guarantee the best optical effect.

Top seal

If the mirror is top-sealed, the silicone must not contain acetic acid. When top-sealing, only silicone recommended by Hammerglass may be used.

CLEANING

Generally, cleaning with a gentle window detergent is recommended. Smaller stains and graffiti can be removed with solvents such as isopropanol or white spirit. Acetone should be avoided. Cleaning must only be done with a soft cloth or squeegee that is free of hard particles. Sharp tools or objects that may cause scratches must not be used.

If the mirror surface is damaged

Although Hammerglass is resistant to most commonly occurring chemicals, the use of chemicals should be avoided. A damaged mirror surface cannot withstand chemicals and is not covered by the warranty. A damaged surface should only be cleaned with soapy water, provided that the soap does not contain solvents or other chemicals. If there are scratches or bubbles on the mirror surface, we recommend replacing the mirror.

Static electricity

Static electricity disappears if the mirrors are wiped with a soft cloth and a mixture of water and some ordinary fabric softener. Remove any spillage with a squeegee that does not contain any hard particles

WARRANTY VALIDITY

The warranty period on Hammerglass mirror glass is 2 years. The warranty covers age-related staining, crack formation as well as breakage.

Opening the packaging implies agreement that the warranty shall be deemed void if the instructions outlined in this document have not been adhered to during transport, storage, installation or cleaning. Failure to handle an item correctly waives the right to file a complaint.

MORE ABOUT QUALITY ASSESSMENTS

In terms of quality, the mirror image in Hammerglass mirrors is almost comparable to traditional glass mirrors. However, small black/white dots, lines or marks may occur in the Hammerglass mirror surface. The phenomenon does not occur on all mirrors, and normally there are no dots at all. In the worst case scenario, a few dots can be found on an entire mirror.

- During the manufacturing process, hot, liquid aluminum is sprayed over the Hammerglass sheets, so that the aluminum flows out and forms a mirror surface. During this process, small aluminum fragments may settle on the mirror surface. Larger aluminum fragments are clearly visible, and these mirrors are sorted out. Smaller fragments are difficult to detect during the quality check, that is carried out before the mirrors leave our warehouse, but may appear (dots, lines, marks in the mirror surface) after the protective film is removed in connection with assembly. These points do not constitute grounds for complaint.
- The back of the mirror is coated with a white protective paint. The protective paint is fragile, and the slightest damage can be seen as a mark in the mirror itself. While handling the mirror in connection with assembly, it is therefore of the utmost importance that the white painted surface is handled VERY CAREFULLY so that pressure damages or scratches cannot occur (for example as a result of careless application of glue).



Hammerglass AB
Åkagårdsvägen 9
SE-269 71 Förslöv, SWEDEN
+46 (0) 431-25 000
WWW.HAMMERGLASS.COM

 **hammerglass®**