

Questions and answers about glassless mirrors.

How is a glassless mirror made?

Our glassless mirrors are made from a highly reflective metalized film. The film is vacuum stretched around an aluminum frame to form a mirror. The raised lip of the frame provides an air space between the back of the film and the rigid foam core inside.

Does a glassless mirror weigh as much as a glass mirror?

No, a glassless mirror is a fraction of the weight of a glass mirror. For example, a glassless mirror panel 48" x 72" x 1 1/4" weighs approximately ten pounds and a glass mirror of the same size weighs approximately 72 pounds.

Will a glassless mirror break or shatter like glass?

No, a glassless mirror has an inherent safety factor because of its soft surface and is light weight. However if you were to hit it, you could puncture or tear the surface, but there will be no shards of broken glass.

How is a glassless mirror cleaned? Are there any special maintenance requirements?

Because the mass of the glassless mirror film is so little, the problem of static electricity attracting dust particles to its surface is practically non-existent. In a room that is free of cooking grease or smoke fumes, little cleaning is required. If a panel should get dirty, it can be cleaned by using a mild glass cleaner and a soft cloth to avoid scratching the surface. Do not use paper towels or tissues, which are usually abrasive. An interesting property of glassless mirrors is that they will not normally fog in high humidity areas such as bathrooms or swimming pools.

Does a glassless mirror panel have value as a thermal insulation?

Yes, the polyurethane foam makes a glassless mirror panel a thermal insulator. The foam itself has an "R" value of 3.3 to 6.5 and the reflective quality of the film with its dead air space enhances this value.

Can a glassless mirror panel be used out of doors?

No, because over an extended period of time (18 to 24 month tests) we find that in a temperate zone climate, the polyester film will become brittle. In a warm climate and sheltered location, it might possibly be used. In a short term (several months) outdoor display it may also be considered. We recommend bringing it indoors over night.

Can a glassless mirror be used as an optical or front surface mirror?

Yes, a special grade of glassless mirror (94% reflectivity) is made specifically for use as front surface mirrors for optical purposes. These are available on special order (call for quote) and are most often used instead of glass when large size optical mirrors are required. We suggest that for optical applications, the projected image be contained within 1" of the edges of the glassless mirror surface to avoid minor image distortions that would be magnified in projection.

Glassless mirrors used for general purposes have a reflection of 85-86%.

Can a glassless mirror be decorated, painted on, etc.?

Yes, a glassless mirror panel can be silkscreened or painted with acrylic paints for decorative effects or graphic treatments.

Can a glassless mirror panel be cut or fitted on the job site?

No, each panel is a structural entity and cannot be cut in the field. Cut outs for HVAC and electrical can be made at the factory to your specifications, upon receipt of your drawings.

Does a glassless mirror panels have an acoustical dampening properties?

Yes, because of its structural nature, a glassless mirror panel tends to absorb sound rather than reflect it the way a hard polished surface material (such as glass) will. A glassless mirror panel has sound-absorbing properties which become stronger as the frequency (Hz) range grows higher, making the glassless mirror panel particularly effective for public gathering places and schools with high noise levels.

What is the delivery time of an order?

Standard sizes are usually in stock and will often ship out same or next day. If your item is not in stock we expect to ship it out within 2 weeks. Actual delivery times may vary, although most items shipped via our trucking service, New Penn, will take 1- 4 days to arrive. We can arrange a specific delivery day if needed. For very large quantities, we will discuss the order and delivery time with you. For custom orders please allow 4-8 weeks.

Limited Warranty

Glassless Mirror Manufacturers Inc. will only accept returns due to manufacturing defects. This warranty lasts for the period of 90 days from the date of sale.

Terms

All customers must pay for regular stock size mirrors before order ships.
Dealers may apply for net 30 days term with credit application.
Custom size mirrors must be paid for in advance.

CONDITIONS

Returns will not be accepted unless authorized by Glassless Mirror Manufacturers, Inc. If mirror is damaged by freight carrier, refuse it, write a report and if possible take pictures. Mirrors must be returned in original packaging and in good condition. Customer will be charged a 20% restocking fee for stock size mirrors and must be shipped pre-paid freight. No return on custom size mirrors.

Glassless Mirror Manufacturers, Inc. will charge a 40% of list price of resurface mirrors.

The following is made in lieu of all warranties, express or implied. Sellers and manufacturers only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability whatsoever in connection **therewith.**