



SCARGARD® MIRROR Product Profile & Specifications Sheet



Vitro America, Grenada, Mississippi has a heritage of producing high quality mirror and glass products, along with a continuing commitment to pursue quality improvements. Vitro America has applied all the technical knowledge available, foreign and domestic, to create a mirror of superior quality.

The quality of materials used and technical expertise of application are of equal importance in the production of high quality mirror. Every phase of the silvering process has been studied and adjustments made that have resulted in maximum silver adhesion and protection – to give our mirror the resilience required for long life providing maximum toughness and performance.

Vitro America manufactures ScarGard® Mirror in accordance with four specifications:

ASTM C1503-01	Standard Specification for Silvered Flat Glass Mirror
ASTM C1036-01	Standard Specifications for Flat Glass
ASTM B117-97	Method of Salt Spray Testing
ASTM D3359-97	Standard Test Methods for Measuring Adhesion by Tape Test

ScarGard® is unique in that it is produced using a chemical process that...

- ...protects the glass surface.
- ...prevents most scratching problems.
- ...has a smoother surface, which makes it easier to pull a stock sheet from a case.
- ...reduces damage that can occur during the fabrication and installation of the mirror.
- ...is NOT a coating but rather chemically treats the glass surface.
- ...will NOT discolor or hamper the reflective character of the mirror.

ScarGard® Mirror is visually inspected ensuring that the maximum allowable imperfections for mirror Q2 quality glass are not exceeded. Furthermore, Vitro America uses the salt spray test as the primary measurement of quality. Production samples are placed in a salt spray chamber, in accordance with ASTM B117-97 and exposed to 300 hours of continuous salt spray using a 20% solution of sodium chloride. At the end of the test, the samples are removed, washed and inspected for clouding, undercutting and spotting and are graded in accordance with ASTM C1530-01. Salt spray testing is performed in-plant and by outside laboratory. Results are compared ensuring consistent results. ScarGard® Mirror has successfully withstood over 1800 hours in salt spray with edge undercutting of less than 1½ mm. For comparison, this is 6 times the hours required by industry standards but only 1/3rd of the allowable deterioration.



Vitro America not only manufactures high quality mirror but fabricates as well. Good adhesion is critical to producing a mirror that will withstand chemical attack from cleansers and grinding coolants during the fabrication process. Therefore, chemical resistance is tested by means of a 24-hour ammonia vapor test and ScarGard[®] Mirror has proven to perform exceptionally well under normal handling and fabrication operations.