



QUALITY / INSPECTION OF GLASS UNITS

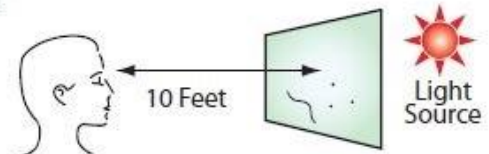
The following quality standards are offered as suggested guidelines for the evaluation of coated glass products, based on ASTM 1376.

General:

- Normal viewing distance is 10 feet for vision glass and 15 feet for spandrel glass. The viewing angle should be 90°. Vision glass is viewed against a bright, uniform background.
- The area of most importance is the central viewing area, which is defined by 80% of the length and 80% of the width dimensions centered on a lite of glass. The remaining area is considered the outer area.

Pinholes and Clusters (viewed in transmission):

- Pinholes up to 1.5mm (1/16") are acceptable.
- A cluster is defined as two or more pinholes up to 1.5 mm (1/16") each that are readily apparent and located in an area of 75 mm (3") diameter.
- Clusters of pinholes within the central viewing area are not acceptable.
- Clusters greater than 0.82 mm (1/32") and visible from 3 meters (10 feet) are acceptable only outside the central viewing area.



Scratches (viewed in transmission):

- Scratches longer than 50 mm (2") within the central viewing area are not acceptable.

Color uniformity (viewed in reflection):

- Coated glass may exhibit slightly different hue or color that may not be apparent in hand samples.
- Color and reflectance may vary slightly overall and be considered acceptable.
- Due to the reflectivity of some glass coatings, distortion of reflected objects may be more apparent. This characteristic is more pronounced with heat-treated, laminated and insulated glass.

