



### ST-GS - surface glass mirror for projection

<b>Description</b>	Distortion-free glass mirror without double images, polarization-preserving
<b>Material</b>	Float glass
<b>Thickness - Flatness - maximum size</b>	3 mm - 8/8/2 - 127 x 81 cm (usable area 127 x 79 cm) 5 mm - 20/20/4 - 127 x 81 cm (usable area 127 x 79 cm)
<b>Coating</b>	Aluminum on one side with reflection-enhancing interference coating
<b>Deflection</b>	< 0,1 mm /100 mm
<b>Surface protection</b>	Thin and easy removable protective film
<b>Abrasion test</b>	200 strokes, 566 g, with cloth
<b>Adhesion test</b>	with Scotch, 3M 8981
<b>Moisture-proof test</b>	48 h, 95% relative humidity, 50°C
<b>Tauchen in Salzlösung</b>	37 g/l, 24 h at room temperature
<b>Immersion in saline solution</b>	according to ISO 9227 NSS, 48 h
<b>Wipe test</b>	20 wiping movements with isopropyl alcohol, glass cleaner, acetone
<b>Immersion in isopropyl alcohol</b>	2 h at room temperature
<b>Climate change</b>	4 h at 80°C, 4 h at - 30°C, 16 h according to ISO 6270 part 1, 4 cycles
<b>Long-term heat storage</b>	7 days at 100°C

### Minimum reflectance values

Wavelength in nm	6° light angle of incidence	45° light angle of incidence
400	> 92 %	> 92 %
450	> 93 %	> 93 %
550	> 94 %	> 94 %
600	> 90 %	> 90 %

### Glass and surface defects

Error type	Single error size	Maximum permissible number of errors	Minimum distance between two errors
Point error	> 0,7 mm	not permitted	50 mm
Pinholes	> 0,2 to 0,7 mm	unlimited	
Glass defects	> 0,2 mm	not rated, but no cloud formation	
Scratches	Width to 0,08 mm	total length cumulated, max. 1/3 the longest edge	50 mm