



STANDARDS SPECIFICATIONS FOR CUT SIZE MIRRORS

How mirrors should be inspected

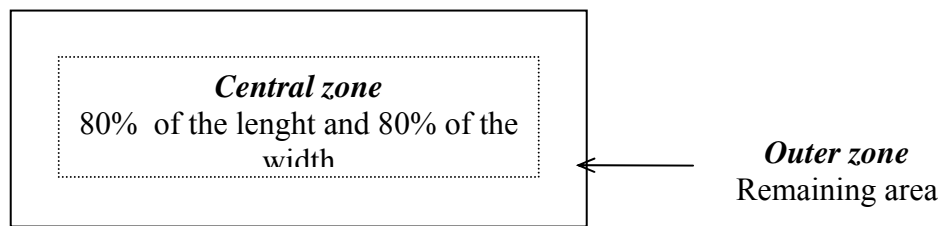
- Glass must be in a vertical position
- At a distance of approximately 3 feet
- At an angle of 90 degrees
- Using daylight (without direct sunlight)

Point blemishes

Size	Central area**	Outer area**
<0.30 mm	Allowed if not clustered *	Allowed if not clustered *
≥ 0.30 et < 0.50 mm	Allowed with a minimum separation of 300 mm (12 inches)	Allowed with a minimum separation of 300 mm (12 inches)
≥ 0.50 et < 0.80 mm	None allowed	Allowed with a minimum separation of 300 mm (12 inches)
≥ 0.80 et < 1.2 mm	None allowed	Allowed with a minimum separation of 1500 mm (60 inches)
≥ 1.2 mm	None allowed	None allowed

* cluster : a group of not less than 3 points blemishes separated by not more than 50mm (2'')

**** Definition of central and outer zones**



How to measure point blemishes size?

The size of a blemish correspond to the average of the two following dimensions, length and width of the blemish, including distortion.

Linear blemishes

Detection distance	Blemish length	Central and outer zone
Up to 1'	< 75 mm	Allowed
	≥ 75 mm	Allowed
Up to 3'	< 75 mm	Allowed with a minimum separation of 600 mm (24 inches)
	≥ 75 mm	None allowed
Over 3'	< 75 mm	None allowed
	≥ 75 mm	None allowed

Chips

Depth	Allowed if chip depth is ≤ 25% of mirror thickness
Width	Allowed if chip depth is ≤ 25% of mirror thickness or 1.6mm whichever is greater
Length	Chip length ≤ 2 times the chip width

Dimensional tolerances

Thickness mm	Thickness range		Length and width ± mm	Squareness* ± mm
	Min (mm)	Max (en mm)		
3.0	2.70	3.40	1.5	2.0
4.0	3.80	4.20	1.5	2.0
5.0	4.57	5.20	1.5	2.0
6.0	5.56	6.20	1.5	2.0

**To measure squareness, measure the length of both diagonals (corner to corner) ; the difference between these two measurements shall not exceed the tolerances above*

These standards specifications can be used only for mirrors made with silvering grade glass. The following type of glass are not made with silvering grade glass, thus should not be inspected with these standards specifications

- Tinted
- Low-Iron
- Acid etch
- Pattern

This list is not exhaustive. Please, contact our customer service to verify if these standards specifications apply.

These specifications are based on ASTM C1503 standards. The ASTM C1503 is internationally recognized by the glass industry as the north American manufacturers of glass as a reference.

These standards specifications can be revised depending on projects realized