

MIROGARD® stock sizes

MIROGARD® from SCHOTT is a mineral glass based on optical interference coatings, antireflective coating on both surfaces which can be used for picture glazing and for showcases of all types. Disturbing reflections are almost completely eliminated. As antireflective laminated glass it combines the advantages of mechanical protection with a high UV-absorption rate.

Technical properties:

- TE - MIROGARD® stock sizes
- TE - MIROGARD® cut sizes ≥ 0.2 m²
- TE - MIROGARD® cut sizes < 0.2 m²

Physical and chemical properties are part of Specification „PCE – MIROGARD®“.

MIROGARD® is available in the following types:

MIROGARD® (following called M)

Extra clear low iron float glass with antireflective coating on both surfaces, produced in a dip-coating process based on optical interference systems. For MIROGARD® 2 mm : General colour rendering index $R_a = 100$.

MIROGARD Protect® (following called MP):

Antireflective coating laminated glass made from two pieces of extra clear low iron float glass with antireflective coating on one surface, laminated with a special UV-absorbing interlayer (e. g. Saflex® RB 11 from SOLUTIA, 0.38 mm). MIROGARD Protect® as Laminated Safety Glass (VSG) for the thicknesses 4, 6 and 8 mm is in accordance to the construction regularities A part 1, no. 11.8.

MIROGARD® plus (following called M plus)

Extra clear low iron float glass with antireflective coating on both surfaces, produced in a dip-coating process based on optical interference systems. MIROGARD® plus will reduce the incident radiation (300 nm to 380 nm) by absorption and reflection by appr. 84 %.

1. Geometry, shape

Sizes	gross size (length x width)		net size (length x width)	tolerance
stock size	1900 mm x 1250 mm		1770 mm x 1220 mm	± 3.0 mm
Product name	type	colour no.	thickness in mm	
MIROGARD®	-	5098 1	2.0; 3.0; 4.0; 6.0; 8.0	
MIROGARD Protect®	4/2	-	4.4	
MIROGARD Protect®	6/2	-	6.4	
MIROGARD Protect®	8/2	-	8.4	
MIROGARD® plus	-	4298 1	2.0	
Tolerance of length and width	M, M plus		MP	
Edge type (DIN 1249, part 11)				
Straight edge, cut	± 2.0 mm		+3.0 mm - 2.0 mm	
Tolerance of thickness	0 mm - 0.2 mm		0 mm - 0.4 mm	
(effective for 8 mm: ± 0.2 mm)				

2. Glass defects

Inclusions (bubbles, stones, striae) Glass particles (cullet) defect size g* (without distortion)	
$g \leq 0.5 \text{ mm}$ $0.5 \text{ mm} < g \leq 2.0 \text{ mm}$ $g > 2.0 \text{ mm}$	disregard, if no accumulation** 3 not permissible

* defect size $g = \frac{\text{length of the defects} + \text{width of the defects}}{2}$

** 7 admissible defects, classified as „disregard“, within an inspection area of 40 mm diameter are considered as accumulation.

3. Surface imperfections

Mechanical defects:	
Incipient crack	not permissible
Wipe mark (sleek)	disregard
Scratches defect length l	
$l \leq 2 \text{ mm}$	disregard, if no accumulation**
$2 \text{ mm} < l \leq 50 \text{ mm}$	3
$50 \text{ mm} < l \leq 100 \text{ mm}$	1
$l > 100 \text{ mm}$	not permissible
Accumulated small scratches, scuff marks Pressure mark (tool drag mark) defect size g*	
$g \leq 3.0 \text{ mm}$	disregard, if no accumulation**
$3.0 \text{ mm} < g \leq 10.0 \text{ mm}$	3
$g > 10.0 \text{ mm}$	not permissible
Coating defects:	
Defective area, Interference points defect size g*	
$g \leq 0.2 \text{ mm}$	on principle disregard
$0.2 \text{ mm} < g \leq 0.6 \text{ mm}$	disregard, if no accumulation**
$0.6 \text{ mm} < g \leq 1.3 \text{ mm}$	20
$1.3 \text{ mm} < g \leq 3.0 \text{ mm}$	4
$g > 3.0 \text{ mm}$	not permissible
Interlayer defects (only applies for MP):	
Interior dirt defect size g*	
$g \leq 0.5 \text{ mm}$	disregard, if no accumulation**
$0.5 \text{ mm} < g \leq 0.8 \text{ mm}$	1 piece / m ²
$0.8 \text{ mm} < g \leq 5.0 \text{ mm}$	1 piece / m ²
$g > 5.0 \text{ mm}$	not permissible

4. Miscellaneous

Cleaning	<p>MIROGARD® can be cleaned with any commercial window cleaning agent or with untreated cloth using a mixture of water and methylated spirit (1:1).</p> <p>If commercially available glass cleaners are used, please ensure that these are not abrasive or likely to cause scratching.</p>
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