

STANDARD INCREMENTAL GRADUATED DISCS AND RETICLES, Ø27 mm

SPECIFICATIONS:

Material:

- Selected floatglass
- Planeness: 10 µm/100 × 100 mm
- Coefficient of expansion: $\alpha \approx 8.5 \times 10^{-6}/K$
- Glass-thickness: 1.0 ± 0.1 mm
- Reticle scribed and broken
- Tolerance of diameter (graduated discs drilled): ± 0.1 mm
- Chippings: ≤ 0.1 mm

Grating:

- Sputtered chromium on glass
- Transmissibility: < 0.3 % at $\lambda = 400 - 900$ nm
- Reflexion > 60 % at $\lambda = 400 - 900$ nm
- Line : width ratio = 1 : 1
- Accuracy: $\leq \pm 2''$
- Mouse bites: ≤ 2 µm
- Line width: ≤ 10 µm: ± 10 %
 > 10 µm: ± 1.5 µm

Allowed defects within optical active area:

- Pin holes and chromium spots:
 - up to 1 000 lines: max. 3, $\varnothing \leq 100$ µm
 - over 1 000 lines: max. 3, $\varnothing \leq 50$ µm
 Minimum distance: 10 mm
- Scratches:
 - One scratch with a width ≤ 10 µm on both sides allowed, length not critical

On request:

- Other glass types
- Other glass dimensions
- Other coatings
- Chamfered discs

DIAMETER 27 mm

Line rates

4	200	900
9	235	1 000
10	250	1 021
20	314	1 024
25	318	1 080
30	360	1 200
40	400	1 250
90	500	1 500
100	600	1 800
125	625	2 000
150	635	2 048
160	720	2 500
		5 000

Other line rates on request

Top view of the chrome layer

