STANDARD INCREMENTAL RETICLES

SPECIFICATIONS:

Material:
- Selected floatglass. scratched and fractured
- Planeness: 10 µm/100 × 100 mm
- Coefficient of expansion α ≈ 8.5 × 10^{-6}/K
- Glass-thickness: 1.0 ±0.1 mm
- Chippings: ≤ 0.1 mm

Grating:
- Sputtered chromium on glass
- Reflexion (λ = 850 – 900 nm): > 60 %
- Grating pitches: 10 : 10 µm
  20 : 20 µm
- Line : width ratio = 1 : 1
- Line width: ≤ 10 µm: ±10 %
  > 10 µm: ±1.5 µm
- Accuracy: ≤ ±1.5 µm

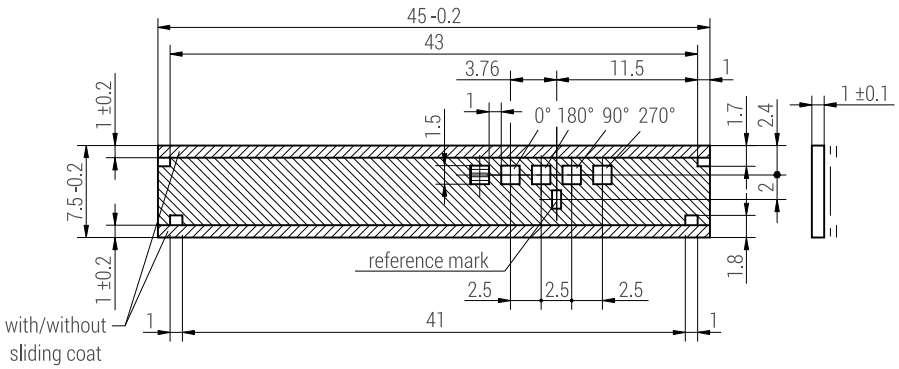
Allowed defects within optical active area:
- One scratch with a width < 10 µm on both sides allowed, length not critical
- Pinholes or chromium spots:
  - up to 1 000 lines: max. 3, Ø ≤ 100 µm
  - over 1 000 lines: max. 3, Ø ≤ 50 µm
  Comment: it is not allowed that the sum of several minor defects are larger than the max. allowed single defect!

Allowed defects outside optical active area:
- Three scratches with a width < 25 µm on both sides allowed, length and distance not critical
- Pinholes or chromium spots: Ø ≤ 200 µm, 3 distance not critical
  Comment: it is not allowed that the sum of several minor defects are larger than the max. allowed single defect!

On request:
- Other glass types
- Other glass-thicknesses
- Other coatings
- Sliding coat on mask
- Other grating pitches

DIMENSIONS:

top view of the chrome layer



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