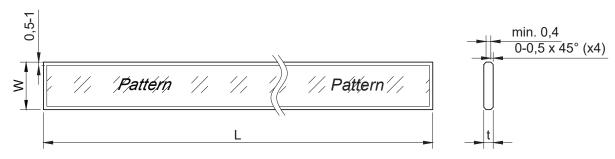




Linear scales are available in lengths of up to 3400 mm! Wide selection of substrate material includes float glass, BK7, optical glass, ceramics, aluminium oxide, as well as low coefficient of thermal expansion options like quartz glass, borosilicate, robax, zerodur and others. Depending on the industry and application, different specifications can be selected to better suit customer needs.



L - Scale length (10-3400mm); W - Scale width (3-50mm); t - thickness (0,5-8mm)

## **MATERIAL**

Substrate material	float glass, BK7 optical glass, ceramics, aluminium oxide and others. Low CTE: quartz glass, borosilicate, Robax, Zerodur.	Graduation line's width max. tolerance	±5%
		Accuracy grades	$\pm 1; \pm 2; \pm 3$ µm (L < 1m); $\pm 2; \pm 3; \pm 5$ µm (L < 3.4 m)
Thickness of	0,5 - 8 mm		
substrate		Graduation parallelism to glass edge	< 0.1 mm/m
Max. scale length	3400 mm	giass cage	
Max. measuring length	3360 mm	Shape of graduation line	Rectangular if L $>$ 400 mm; any if L $<$ 400 mm
		Max. available height of	32 mm
Proccessing	Scribed and broken, laser cutting	graduation pattern	32 IIIII
Outbreaks on edges	< 0.1 mm, edges linearity 0.1 mm/m	Variation of light transmis- sion of incremental scale pattern	±3%
Grinded, polished glass	Edges linearity up to 0.015 mm/m		
Coating	Chrome, alumininum, silica, anti-reflective chrome and others on request		

## **PATTERN**

Incremental track;

Incremental track with fixed or variable pitch and track with reference mark; distance-coded marks. Incremental and absolute tracks + reference mark and aphodisation. Labels and different shaped marks.

Other glass types, glass thicknesses and shapes of graduations lines can be provided. Please contact us with your ideas, drawings, needed specifications and other information and we will talk about the options.