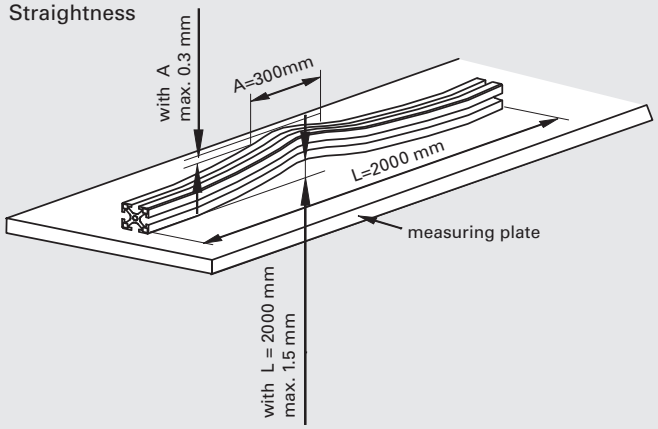
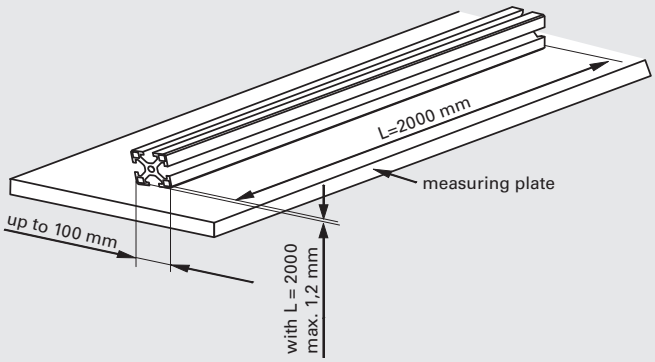
Extrusion Tolerances

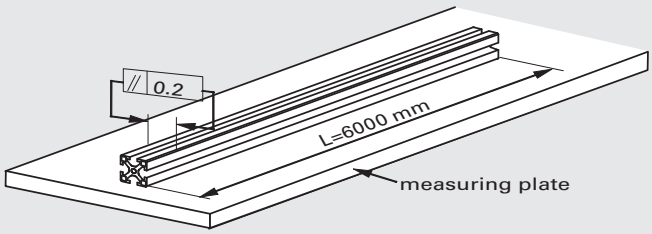
Straightness



Torsion



Parallelism



Technical data – extrusions:

Material description:	EN AW-6063 - T66
Minimum tensile strength R_m (in direction of pressure):	215 N/mm²
Yield strength R_p (in direction of pressure):	160 N/mm²
Modulus of elasticity E:	70000 N/mm²
Shear Modulus G:	26000 N/mm²
Coefficient of linear expansion:	$\alpha = 22.5*10^{-6}\ ^1/_K$
Brinell hardness:	approx. 70 HB
Breaking elongation A5:	12%
Material density:	2.7 kg/dm³

Cutting data:

Length tolerance (up to 6000 mm):	±0.2 mm
Rectangular accuracy:	up to 50 mm ±0.05 mm
	up to 100 mm ±0.1 mm
	up to 200 mm ±0.2 mm
Tolerances for precision extrusions:	DIN EN 12020-2