

Technical data

Aluminium profile

Aluminium alloy by DIN EN 573-3

Material	EN AW-Al Mg0,7Si status T66	EN-AW-6063 T66
Specific Weight		2,75 g / cm ³
Material-N°		3.3206.72 (artificially aged)
Tenacity		min. Rm = 245 N / mm ²
0,2 % twist boundary		min. Rp 0,2 = 200 N / mm ²
Ductile yield A 5		> 10%
Ductile yield A 10		> 8%
Modulus of elasticity		E: 70000 N / mm ²
Hear modulus		G: 27000 N / mm ²
Expansion hardness		ca. 75 HB 2,5 / 187,5
Heat extension		23.8 · 10 - 6K-1

Anodizing by DIN 17611

SURFACE	Eloxal E6/EV1, natur anodized, or EURAS CO	
	Layer thickness	ca. 10 - 15 µm
	Layer hardness	250 - 350 HV
TOLERANCE	Aluminium extruded profiles	DIN EN 12020 T 1 + 2
	Outer dimensions	0,2 to 0,4 mm
	Straightness deviatin	max. 1,5 mm / 2 m

Generally we confirm half the values according to the tolerances of DIN EN 12020 part 2.

Blanks	ISO 2768-m
Angle + Length	Usually half values of ISO 2768 m

PROFILE SERIES / BASIC GRID	Profile series	30	45
	Core boring	7,5 - 0,3	
	Standard thread	M8	

All profiles of the profile series 30 and 45 are each developed from the same grid. The profile grooves are uniform in each profile series. All profiles of the respective profile series can be combined with each other. It is also possible to combine the profile series with each other.

SST-PROFILES

Material

X5 Cr Ni 18-10	stainless steel, DIN EN 10 088
Specific Weight	7,9 g / cm ³
Material-N°	1.4301 (cold rolled)
Tenacity	min. $R_m = 540 \text{ N / mm}^2$
0,2 % twist boundary	min. $R_{p0,2} = 245 \text{ N / mm}^2$
Ductile yield	> 35%
Modulus of elasticity Hear modulus	E: 200 000 N / mm ² G: 80 000 N / mm ²
Hardiness Vickers	220 - 260 HV
Heat extension	$11,5 \cdot 10^{-6} \text{ 1/K}$

SURFACE

bare

TOLERANCE

	DIN ISO 2768 - c
Outer dimensions	$\pm 0,3 \text{ mm}$
Straightness deviatin	0,001 x L
Blanks	ISO 2768-m
Angle + Length	Usually half values of ISO 2768 m

CORE BORING

Uniform 7,5 - 0,6 mm

Thread M8 is made with a tap

GRID

Basic grid 45 mm

Due to its identical groove the profile 45 x 45 SST is fully compatible with the aluminium profile system.

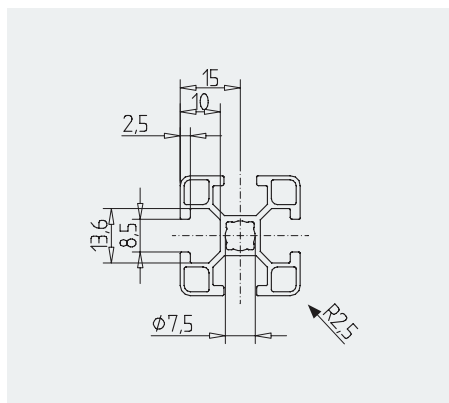
Technical data

Profile series 30

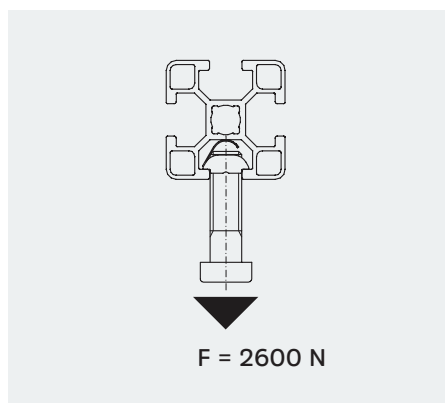
Grooves

One system for profiles 16 to 60 mm. The grooves are identical for all profiles.
Groove width: 8,5 - 0,3 mm.

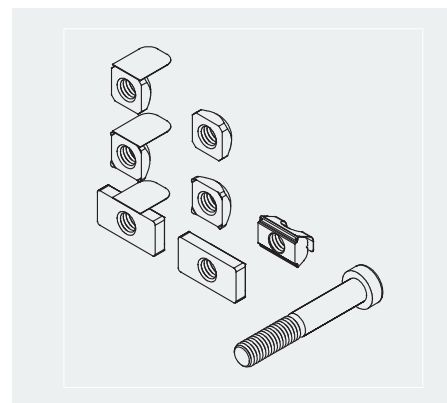
Basic dimensions



Load capacity



Nuts and screw forms used

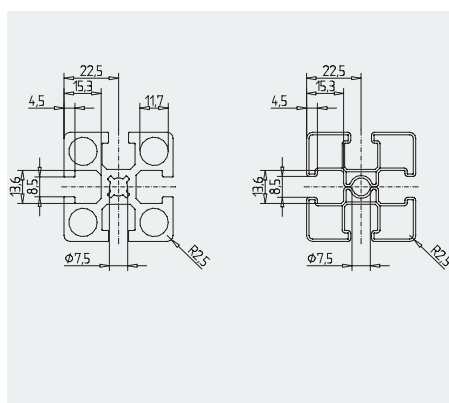


Profile series 45

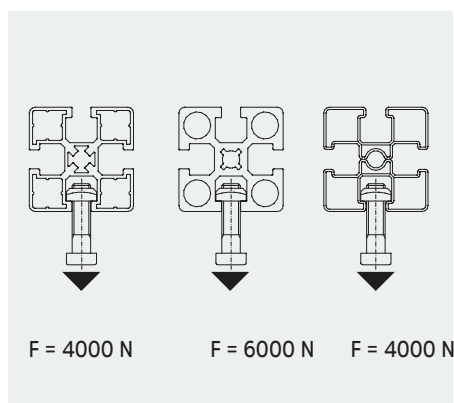
Grooves

One system for profiles from 19 to 270 mm. The grooves are identical in all profiles. Groove width: 8,5 - 0,3 mm. The grooves are designed to accept DIN M8 screws with 13 mm head diameter and 13 mm outer nuts. Square and hexagon nuts and screws are secured against rotation

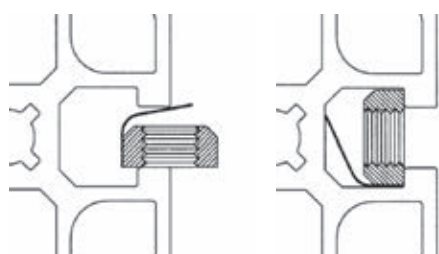
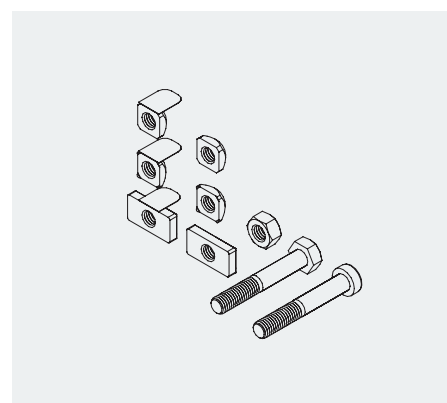
Basic dimensions



Load capacity



Nuts and screw forms used



Sliding nuts can be swiveld in at any point of the profil.