PROFILES		
Matorial	Tupo:	ALMA O 7 SI ENI AW 6062 T66
IVIALEITAI	Specific weight:	A ling $0,7$ si Ell-AW-0003 100
	Material no.:	3 3206.72 artificially aged
	min. Rm:	245 N / mm <sup>2</sup>
	min. Rp 0,2:	200 N / mm <sup>2</sup>
	Ductile yield A 5:	> 10%
	Ductile yield A 10:	> 8%
	Module of elasticity:	E: 70000 N / mm <sup>2</sup> G: 27000 N / mm <sup>2</sup>
	Expansion hardness:	ca. 75 HB 2,5 / 187.5
	Heat extension:	23,8 · 10 <sup>-6</sup> K <sup>-1</sup>
Surface		natural anodized E6/EV1
	Layer thickness:	approx. 10 μm
	Layer hardness:	250 - 350 HV
Tolerances		DIN EN 12020 Part 1 + 2
	Outer dimensions:	depending on size 0.2 to 0.4 mm
	Straightness deviation:	max. 1,5 mm / 2 m
	Flatness deviation:	max. 1,5 mm / 2 m
	Generally we confirm half the values according to the tolerances of DIN EN 12020 part 2.	
Core boring	uniform 7.5 - 0.3 mm	
	The thread M8 must be made by thread former, not by tap.	
	Core bore reborable up to M12.	
Modular Dimension	Standard 45 mm	
	All profiles are based on the same modular dimension.	
	All grooves are uniform.	
	All bores are uniform.	

#### **GROOVE SYSTEM**

#### Grooves

Uniform in all profiles from 19 up to 180 mm Width: 8,5 - 0,3 mm. The grooves are sized for standard M8 with head Ø 13 mm and standard nuts with an outer dimension of 13 mm. Square and hexagonal

<image>

sic dimensions

Sic dimensions

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Useable screws and nuts





This mode of calculation is a function of our construction module for AutoCAD\*



### **DEFLECTION OF MINITEC PROFILES**

The following formulas and examples of calculation are for static load in the form of a point. For the determination of other load, please use the equations in the relevant literature. In particular we want to point out that reduced values should be used for dynamic loads.





Horizontal profiles should be assembled between vertical profiles running unbroken from bottom to top.



Make sure to assemble the vertical profiles an top of the horizontal profiles for higher loads.



The joins of butt-fastened profiles should be supported.

## **ASSEMBLY HINTS**



Because of higher bending strength, profiles should be used edgewise.



Torsional strain on connections should be avoided or supported by additional use of angles.



**Right!** 

Supporting profiles must be built in as one piece to avoid interruptions!

# Wrong!