

PROFILE SYSTEM VA

The new profile-generation

Many new applications are possible with the new stainless steel SUS304 45 x 45 VA profile.

This profile was designed for applications where aluminium profile is not suitable such as acidic, chemical or exposure to high temperatures.

All the advantages of our approved profilsystem also apply for the stainless profiles:

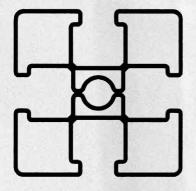
- Strict modular design
- T-slots are designed for standard screws and nuts
- Compatible to all components of our standard system
- ESD-conducting

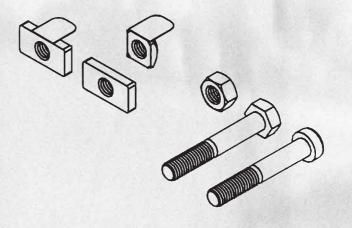
Assembly with patented power-lock fastener made from stainless-steel:

- Minimal processing: 1 thread M8 in central bore
- No special tools required
- Subsequently adjustable
- Power-locked in correct position
- Easy construction of cross-joints
- Grooves remain free for panel elements etc.
- Connection is invisible from the outside

Profile 45 x 45 VA

Usable screws and nuts





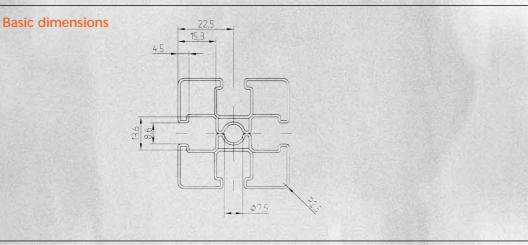
PROFILE SYSTEM VA - TECHNICAL DATA

Material	X5 Cr Ni 18-10stainless steel DIN EN 10 088Specific weight:7,9 g / cm³Material No.:1.4301 cold rolled		
	tensile strength min. Rm = 540 N / mm ² (in pressing direction)		
	0,2 % elastic limit:	min. $R_{p0,2} = 230 \text{ N} / \text{mm}^2$	
	fracture strain:	> 35%	
	Module of elasticity: E: 200 000 N / mm² G: 80 000 N / mm²		
	Brinell hardness:	220-260 HV	
	Thermal extension:	11,5 · 10⁴ mm/ K	
Surface	bare		
Tolerances		DIN ISO 2768 - c	
	Outer dimensions:	± 0,3 mm	
	Straightness deviation:	0,001 x L	
Core drilling	uniform 7.5 - 0.6 mm		
	Thread former M8 has to be used!		
Grid Dimension	basic grid 45 mm		
	Because of identical t-slots, the profile 45 x 45 VA is absolutely compa- tible with our aluminium profile-system		

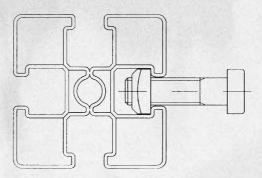
T-SLOT SYSTEM

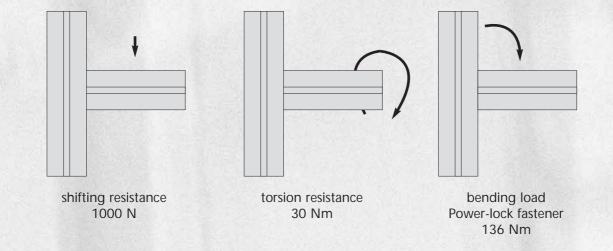
T-slots Width: 8,6 - 0,4 mm.

The t-slots are designed for standard M8 screws (head Ø 13 mm) and standard nuts with an outer dimension of 13 mm. Square and hexagonal nuts and screws are locked in position in the t-slot.



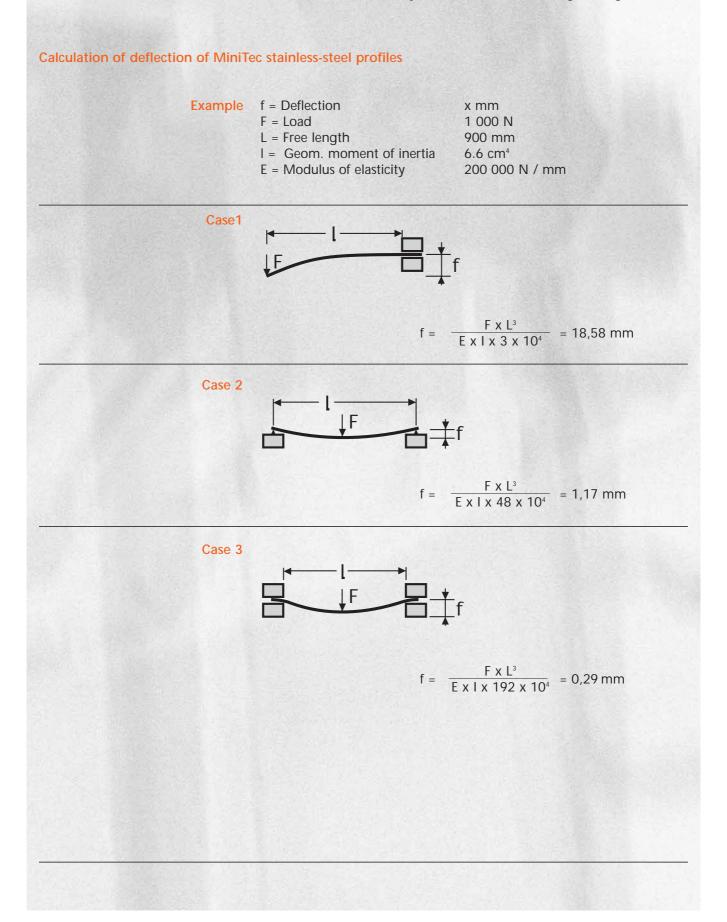
Load capacity





DEFLECTION OF MINITEC STAINLESS-STEEL PROFILES

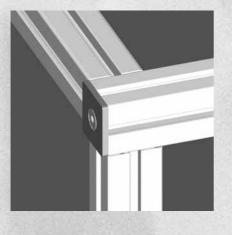
The following formulas and calculation examples apply to static and punctual load. Calculated on the basis of extreme values. Please use the relevant literature to determine further loads. At dynamic load, reduced values should be used. Please also consider the relevant security values for mechanical engineering.

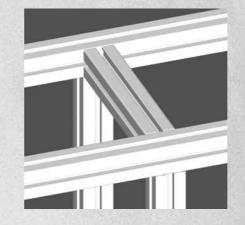


ASSEMBLY TIPS

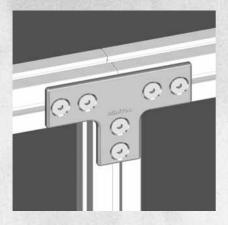
Connection with power-lock fastener:

Assemble loaded profiles full-length.



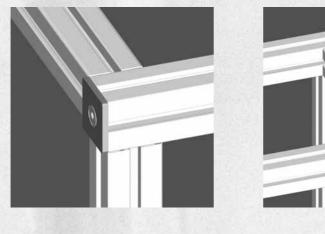


Support butt-joints.

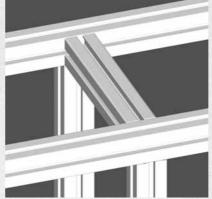


For heavier constructions:

Connection with strengthening-sheets and for angles.



Use power-lock fasteners if tractive forces appear.



SPECIALITIES

Welding of special solutions

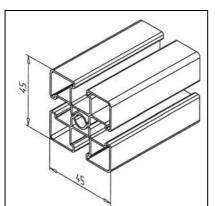
Another important advantage of the new profile generation VA is the possibility of welding. You can connect the profiles or you can weld on other parts made from stainless steel. Welding increases the load capacity for stainless steel frames. The MiniTec continuous T-slot system also means that frames can be extended at anytime.





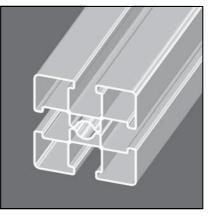
Part. Nº 20.2000/0

PROFILE 45 X 45 VA





- Material: WN DIN 1.43 (X5 CrNi 18-10, SUS 30	
- Modulus of elasticity:	200000 N/mm ²
- Length:	6 m
- Weight:	2,759 kg/m
- lx / ly	6,47 cm⁴
- Wx / Wy	2,88 cm ³



APPLICATIONS

- Food and beverage industry

- Outdoor constructions

- Chemical industry

- Pharmaceutical industry

- High temperatures

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7	Z	>`		

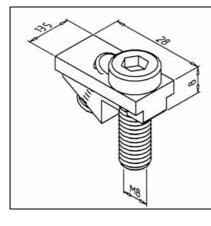
ASSEMBLY

- Power-lock fastener H

- Angles

- Screws M8, stainless

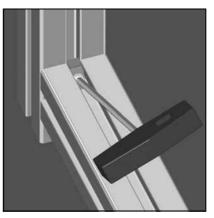
MINITEC POWER-LOCK FASTENER STAINLESS



TECHN. DATA / ITEMS SUPPLIED

- 1 connecting element, stainless-steel

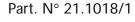
- 1 hex socket head socket head socket cap screw M8x25, stainless steel

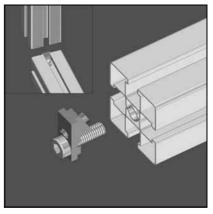


APPLICATIONS

 Power-lock connection of profiles, also suitable for crossjoints

 Accurate location of the profiles, integrated mounting- aid, movable, lowcost due to minimal procession





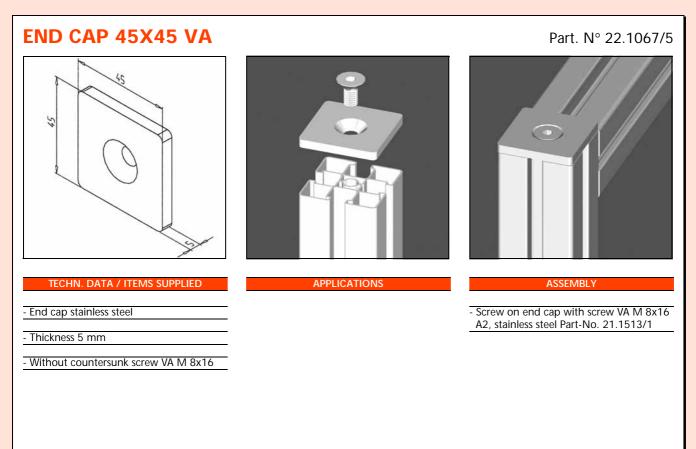
ASSEMBLY

- 1) Cut thread M8 into central bore of profile end

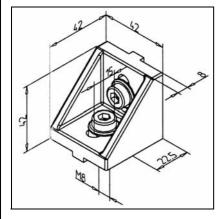
- 2) Mount fastener by hand onto profile face

- 3) Tighten set screw M8 with key 4 A/F

- 4) Recommended locking torque:12Nm



ANGLE 45 VA

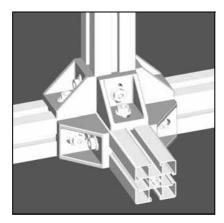


TECHN. DATA / ITEMS SUPPLIED

- Material: WN DIN 1.4301 X5 CR NI 18 -10, SUS 304, stainless steel

- Fastening kit

- Weight 0,253 kg



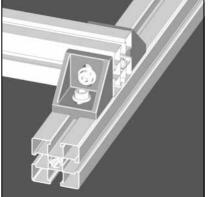
APPLICATIONS

 General constructions, particularly suitable for subsequent insertion of profiles into existing constructions

- Fixing of panel elements, table tops

- Strengthening of profile constructions





ASSEMBLY

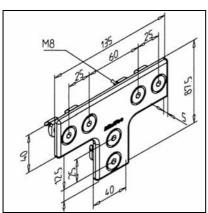
- Use fastening kit

- For subsequent mounting into vertical profiles use square nut M8 with position fixing Part N° 21.1351/4
- Hammer head screw Part N° 21.1370/0 can be used

- Recommended locking torque 20 Nm

Part. Nº 21.0019/0

T-SHEET VA



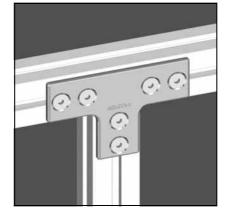
TECHN. DATA / ITEMS SUPPLIED

0,259 kg

- Sheet stainless steel

- Fastening kit

- Weight



APPLICATIONS

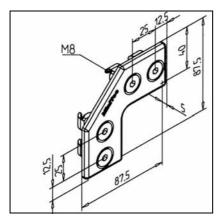
- Strenthening of profile constructions

ASSEMBLY

- Use fastening kit

- Use power-lock fasteners if tractive forces appear

ANGLE-SHEET VA



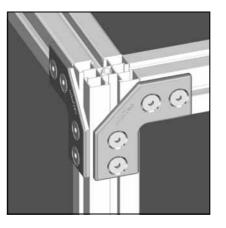
TECHN. DATA / ITEMS SUPPLIED

- Sheet stainless steel

- Fastening kit

rustorning kit

- Weight 0,163 kg

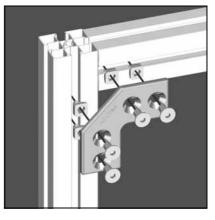


APPLICATIONS

- Strengthening of profile constructions

 Also suitable for cross joints (double application)

Part. N° 21.0018/0



ASSEMBLY

- Use fastening kit

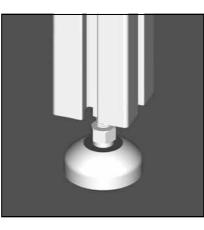
- Use power-lock fasteners if tractive forces appear

FOOT VA

TECHN. DATA / ITEMS SUPPLIED

- Plate: stainless steel

- Threaded bolt: stainless steel
- Locknut: stainless steel
- Anti-skid insert: hard rubber



APPLICATIONS

- Levelling of machine bases or constructions

- Guards, tables, show cases

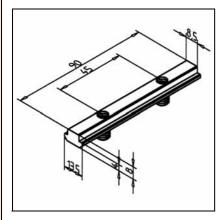
- Conveying systems, workstations



ASSEMBLY

- Directly on core boring of profiles, cut thread M8 into central bore of profile end

T-SLOT BAR 90



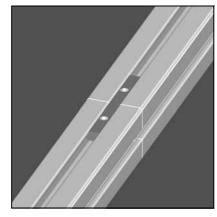
TECHN. DATA / ITEMS SUPPLIED

- Material: WN Din 1.4305, stainless steel

- 2 set screws M8 x 14, 4 A/F, zinc plated

0,060 kg

- Weight

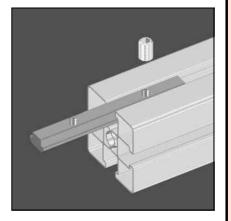


APPLICATIONS

- Profile extension

- Fastening of bearings for linear guides

Part. N° 21.0992/0



ASSEMBLY

- Insertion into the profile groove

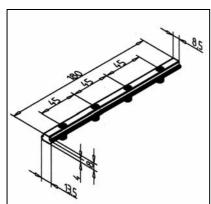
- Clamp with set screw

- No processing required

- For larger profiles or heavy duty applications use multiple t-slot bars

Part. Nº 21.0986/0

T-SLOT BAR 180

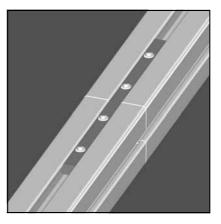


TECHN. DATA / ITEMS SUPPLIED

- Material: WN Din 1.4305, stainless steel - 4 set screws M8 x 14, 4 A/F, zinc plated

0,120 kg

- Weight

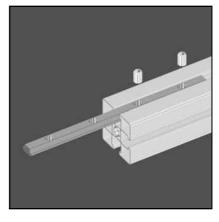


APPLICATIONS

- Face fastening of profiles or ready-for-use elements

- Profile extension

- Fastening of bearings for linear guides

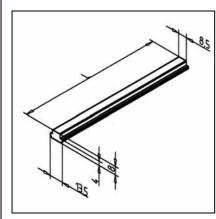


ASSEMBLY

- Insertion into the profile groove

- No processing required
- For larger profiles or heavy duty applications use multiple t-slot bars

T-SLOT BAR PROFILE

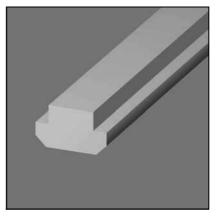


TECHN. DATA / ITEMS SUPPLIED

- Material: WN Din 1.4305, stainless steel

- Weight 0,680 kg/m

- Length 3 m



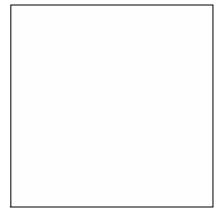
APPLICATIONS

- Production of clamping ledges, connecting elements for special lengths

- Production of reinforcing elements

- Ledges with special perforation

Part. N° 21.1030/1



ASSEMBLY

- Insertion into the profile groove