

# Kalzip® Fixing clamp

## Product data sheet

### The product

Kalzip offers three types of fixing clamps:

- Type FA: Flat connection made of aluminium
- Type FS: Flat stainless steel connection
- Type WS: Angle connection made of stainless steel

### Product advantages

- Penetration-free attachment
- Officially tested and evaluated in conjunction with the Kalzip system as a system accessory

### Field of application

The Kalzip fixing clamp is used for the penetration-free fixing of attachments e. g. B. Walking gratings, solar systems (photovoltaic and solar thermal). The temperature-related changes in length of the Kalzip profiled sheets are not affected by the Kalzip fixing clamps when installed correctly impedes or restricts.

### Installation note

The fixing clamps are inserted in the open closed was placed on the flanges and the clamping screw with a tightening torque of 6 Nm. It must be ensured that the fixing clamps are not readjusted or moved after fixing, otherwise they lose their clamping effect. In practice, this means that the clamping screws should only be tightened to the tightening torque of 6 Nm after installation attachments (e. g. B. Frames for solar systems) on the mounting clamp. If the position of the fixing clamps is changed, the clamping screws must be tightened again.

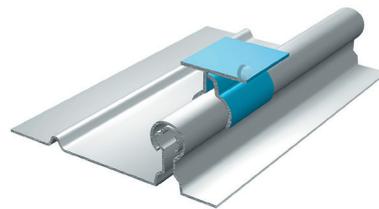
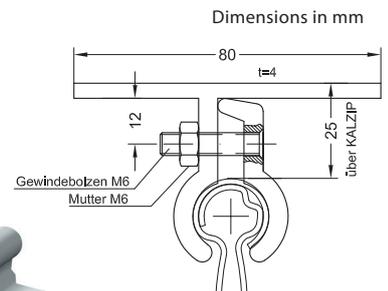
### Note

The Kalzip fixing clamps are not to be used as anchor points for personal safety devices.

### Kalzip fixing clamps

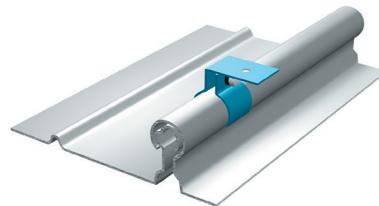
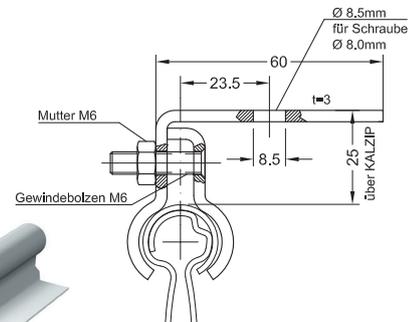
#### Fixing clamp Typ FA

Connection to: Flat form  
Material: aluminium  
length: 60 mm  
Tightening torque: 6 Nm



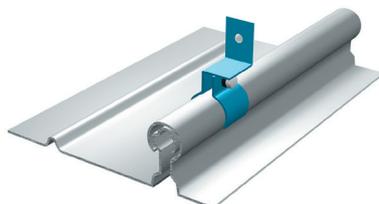
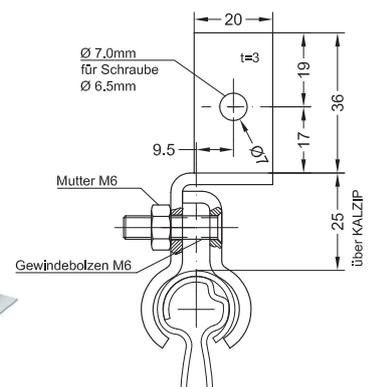
#### Fixing clamp Typ FS

Connection to: Flat form  
Material: Stainless steel  
length: 38 mm  
Tightening torque: 6 Nm



#### Fixing clamp Typ WS

Connection to: Angle  
Material: Stainless steel  
length: 38 mm  
Tightening torque: 6 Nm



# Product data sheet fixing clamp

Characteristic values of the load capacity  $R_c$  of the fixing clamps in [kN] on Kalzip  
(for all load directions):

sheet thickness t [mm]	Clip distance $L_k$ [m]										
	1,00	1,10	1,20	1,30	1,40	1,50	1,60	1,70	1,80	1,90	2,00
0,80	1,23	1,17	1,12	1,06	1,01	0,95	0,89	0,84	0,78	0,73	0,67
0,90	1,38	1,33	1,28	1,22	1,17	1,12	1,07	1,01	0,96	0,91	0,86
1,00	1,54	1,48	1,42	1,36	1,30	1,24	1,18	1,13	1,07	1,01	0,95
1,20	1,84	1,77	1,70	1,63	1,56	1,49	1,42	1,35	1,28	1,21	1,12

sheet thickness t [mm]	Clip distance $L_k$ [m]										
	2,10	2,20	2,30	2,40	2,50	2,60	2,70	2,80	2,90	3,00	-
0,80	0,64	0,61	0,58	0,56	0,54	0,52	0,50	0,48	0,46	0,45	-
0,90	0,81	0,78	0,74	0,71	0,68	0,66	0,63	0,61	0,59	0,57	-
1,00	0,90	0,86	0,83	0,79	0,76	0,73	0,70	0,68	0,66	0,63	-
1,20	1,07	1,02	0,97	0,93	0,90	0,86	0,83	0,80	0,77	0,75	-

## Proof of the fixing clamps

The value of the external load increased by  $\gamma_F$   
S per fixing clamp must be smaller than  
is the characteristic value of the load capacity  $R_c$  of the  
fixing clamp divided by  $\gamma_M$ :

$$\gamma_F \cdot S \leq R_c / \gamma_M$$

with  $\gamma_F = 1,5$   
and  $\gamma_M = 1,1$

- Clip distances  $\leq 1.00$  m may not be invoiced.
- Distance  $\leq 1.00$  m from mounting clamps may not be invoiced.
- The proof of stability for the Kalzip profiled sheets and the fixing clamps themselves must be kept separately.

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