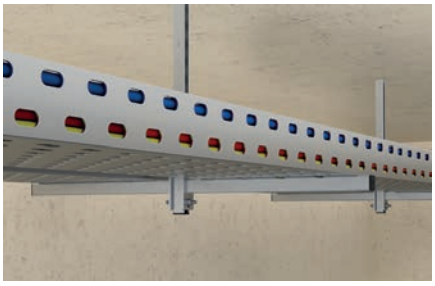
Channel FLS

The flexible channel system for light applications

Air duct fixing with channel



Cable duct

Applications

- The U-profile channels enable the creation of secure, horizontal and vertical installations.
- The channel system is suitable for fast and efficient fixings of pipelines and supporting structures.
- For use in dry interior areas.

Certificates

R 120

R 30 MLAR

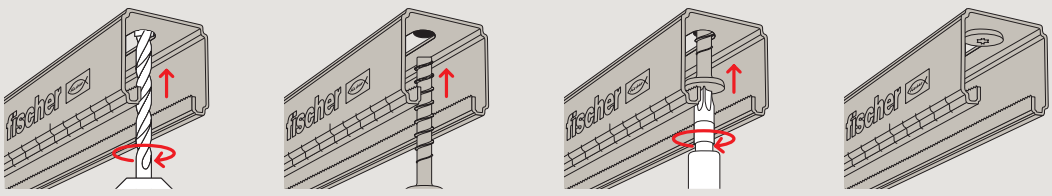
Advantages

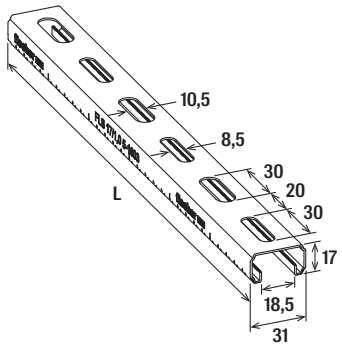
- The fire inspection report in line with MLAR/EN1363-1 of the FLS 37 guarantees independently tested functional safety.
- The channel shape with edge seams gives a perfect fit for the connector elements and leads to a safe and easy installation.
- The serration with stamped teeth in the mounting channel gives the sliding nuts a secure hold to bear high shear loads.
- The scale on the channels simplifies the cutting of the channels and the positioning of the connector elements during installation.
- The alternating long slots in the channel enable the optimised fixing to the substrate with the perfect fixtures.

Properties

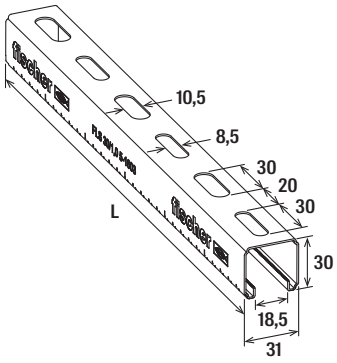
- Material: pre-galvanised steel S250GD+Z275 (material no. 1.0242) acc. to DIN EN 10346

Installation FLS

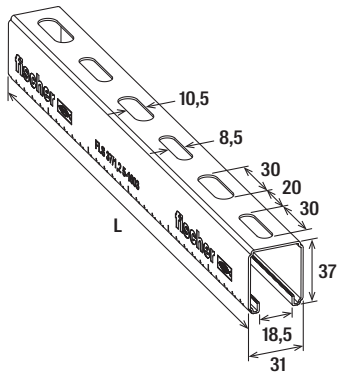




FLS 17/1.0



FLS 30/1.0

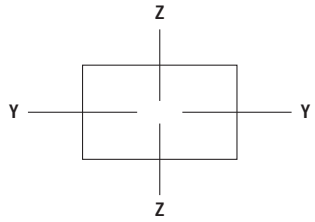


FLS 37/1.2

Technical data

Item	Item no.	Fire test report	Thickness S [mm]	Length L [mm]	Sales unit [pcs]
FLS 17/1.0 - 2 m	572539	–	1.0	2,000	8
FLS 17/1.0 - 3 m	572540	–	1.0	3,000	8
FLS 30/1.0 - 2 m	572541	–	1.0	2,000	8
FLS 30/1.0 - 3 m	572542	–	1.0	3,000	8
FLS 37/1.2 - 2 m	572543	Yes	1.2	2,000	8
FLS 37/1.2 - 3 m	572544	Yes	1.2	3,000	8
FLS 37/1.2 - 6 m	572545	Yes	1.2	6,000	1

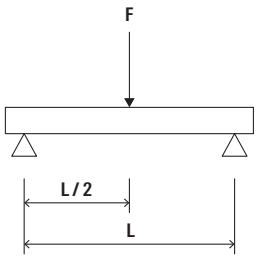
For load information under fire exposure, see chapter Basic knowledge.



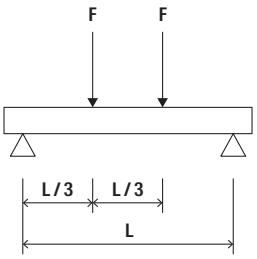
Loads

Item	Item no.	Profile weight [kg/m]	Channel cross section [cm^2]	Moment of inertia I_y [cm^4]	Moment of inertia I_z [cm^4]	Section modulus W_y [cm^3]	Section modulus W_z [cm^3]	Max. recommended static load for 1m length F_{rec} [kN]	Sales unit [pcs]
FLS 17/1.0 - 2 m	572539	0.58	0.72	0.25	0.91	0.26	0.59	0.13	8
FLS 17/1.0 - 3 m	572540	0.58	0.72	0.25	0.91	0.26	0.59	0.41	8
FLS 30/1.0 - 2 m	572541	0.78	0.98	1.02	1.46	0.64	0.94	0.48	8
FLS 30/1.0 - 3 m	572542	0.78	0.98	1.02	1.46	0.64	0.94	0.48	8
FLS 37/1.2 - 2 m	572543	1.06	1.33	2.03	2.01	1.04	1.29	0.78	8
FLS 37/1.2 - 3 m	572544	1.06	1.33	2.03	2.01	1.04	1.29	0.78	8
FLS 37/1.2 - 6 m	572545	1.06	1.33	2.03	2.01	1.04	1.29	0.78	1

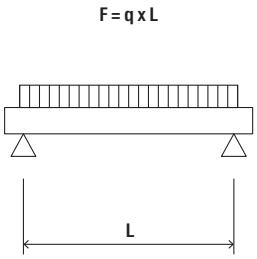
Load case 1



Load case 2

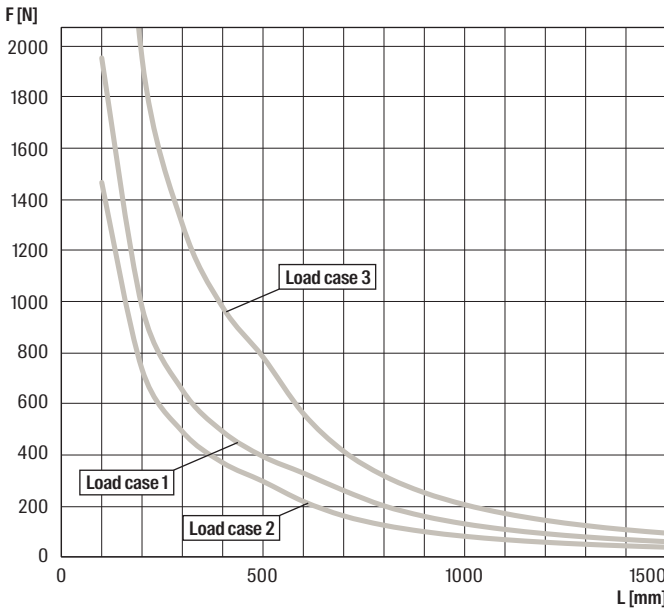


Load case 3

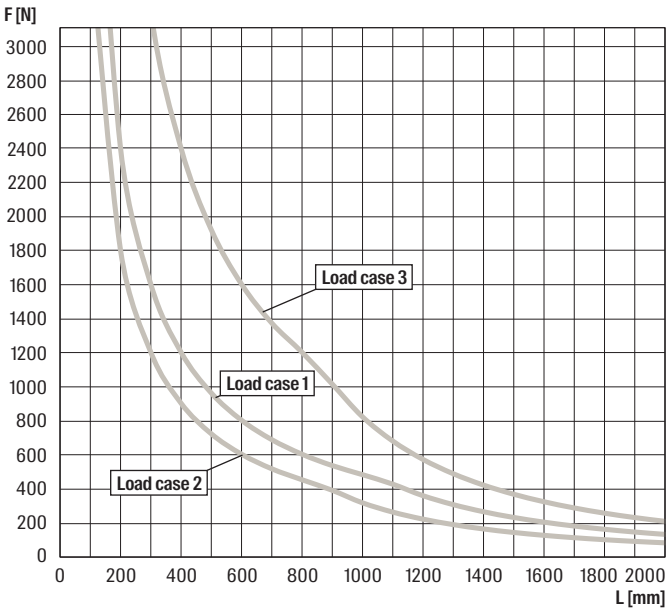


3

FLS 17/1,0

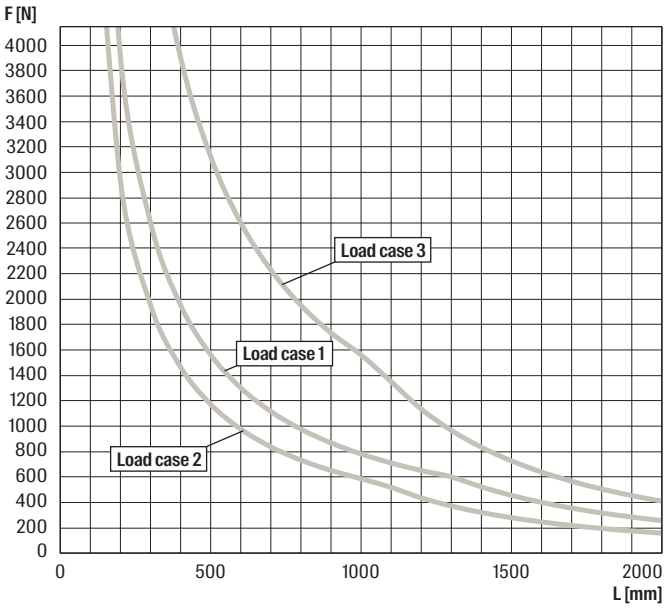


FLS 30/1,0



For the load curves, the permissible steel strain $\delta_{adm.}$ = 188 N/mm (increased steel strain due to bending)and the maximum deflection under load L/200 are not exceeded. Fixings and screw fastenings must be calculated accordingly. The higher yield strength is a result of the calculation according to DIN EN 1993-1-3:2010-12, para. 3.2.2.

FLS 37/1,2



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