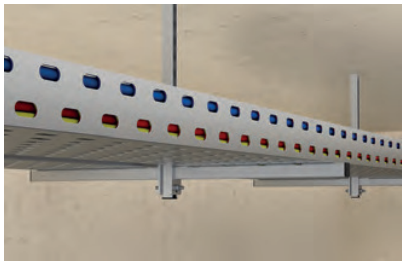
Channel FLS

The flexible channel system for light applications

2b

Air duct fixing with channel



Suspended cable tray fixing

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.

Certificates

Fire resistance classification R120

MLAR R30

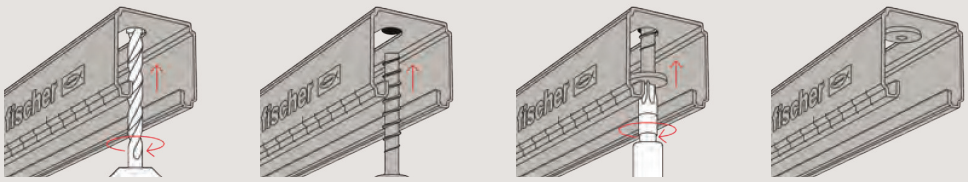
Advantages/Benefits

- 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.

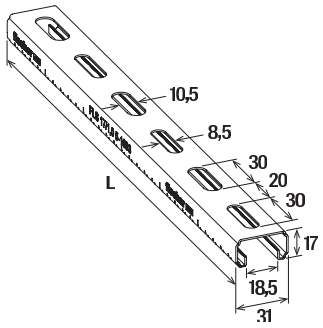
Properties

- Material: pre-galvanised steel S-250-GD+Z275 (material no.: 1.0242) acc. to DIN EN 10346

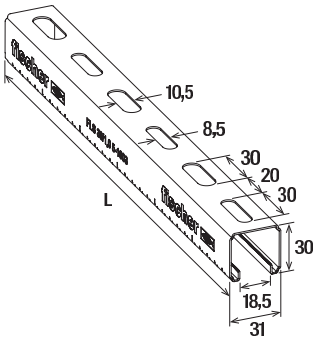
Installation FLS



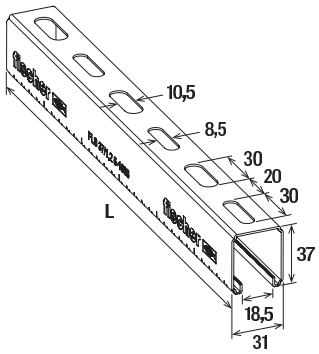
Technical data



FLS 17/1.0



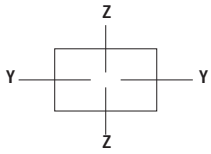
FLS 30/1.0



FLS 37/1.2

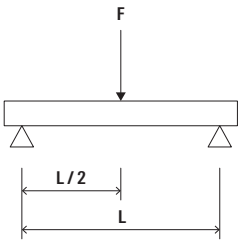
Item	Item No.	Fire test report	Thickness S [mm]	Length L [mm]	Sales unit [pcs]
FLS 17/1.0 - 2 m	**538753**	–	1.0	2000	10
FLS 17/1.0 - 3 m	**538754**	–	1.0	3000	8
FLS 30/1.0 - 2 m	**538755**	–	1.0	2000	10
FLS 30/1.0 - 3 m	**538756**	–	1.0	3000	8
FLS 37/1.2 - 2 m	**538757**	X	1.2	2000	10
FLS 37/1.2 - 3 m	**538758**	X	1.2	3000	8
FLS 37/1.2 - 6 m	**538759**	X	1.2	6000	1

Loads

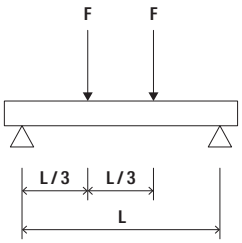


Item	Item No.	Weight [kg/m]	Profile cross section [cm²]	Moment of inertia I_y [cm⁴]	Moment of inertia I_z [cm⁴]	Section modulus W_y [cm³]	Section modulus W_z [cm³]	Max. recommended static load for 1m length F_{rec} [kN]
FLS 17/1.0 - 2 m	**538753**	0.58	0.72	0.25	0.91	0.26	0.59	0.13
FLS 17/1.0 - 3 m	**538754**	0.58	0.72	0.25	0.91	0.26	0.59	0.13
FLS 30/1.0 - 2 m	**538755**	0.78	0.98	1.02	1.46	0.64	0.94	0.48
FLS 30/1.0 - 3 m	**538756**	0.78	0.98	1.02	1.46	0.64	0.94	0.48
FLS 37/1.2 - 2 m	**538757**	1.06	1.33	2.03	2.01	1.04	1.29	0.78
FLS 37/1.2 - 3 m	**538758**	1.06	1.33	2.03	2.01	1.04	1.29	0.78
FLS 37/1.2 - 6 m	**538759**	1.06	1.33	2.03	2.01	1.04	1.29	0.78

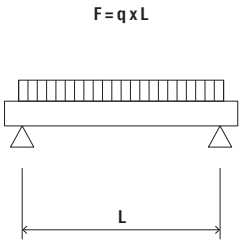
Load case 1



Load case 2

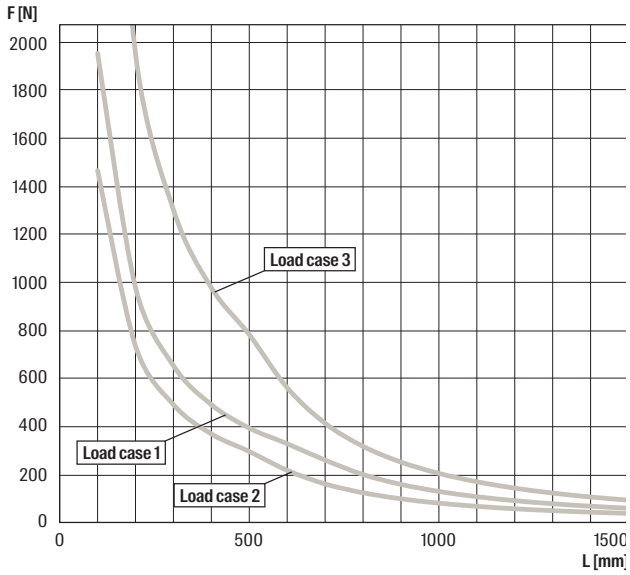


Load case 3

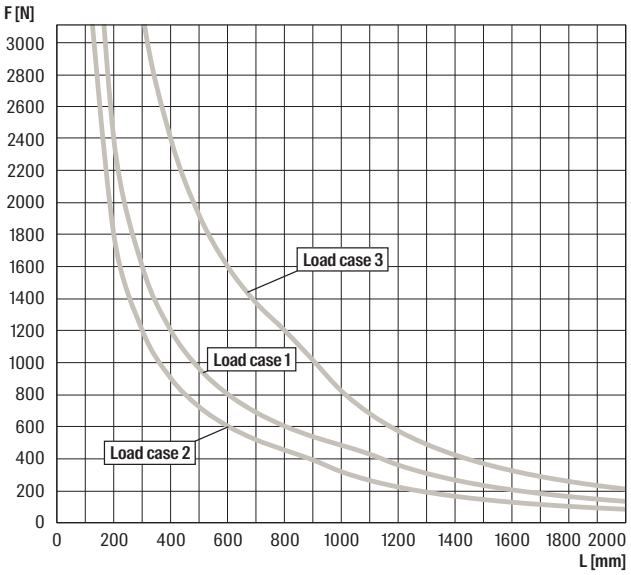


2b

FLS 17/1,0

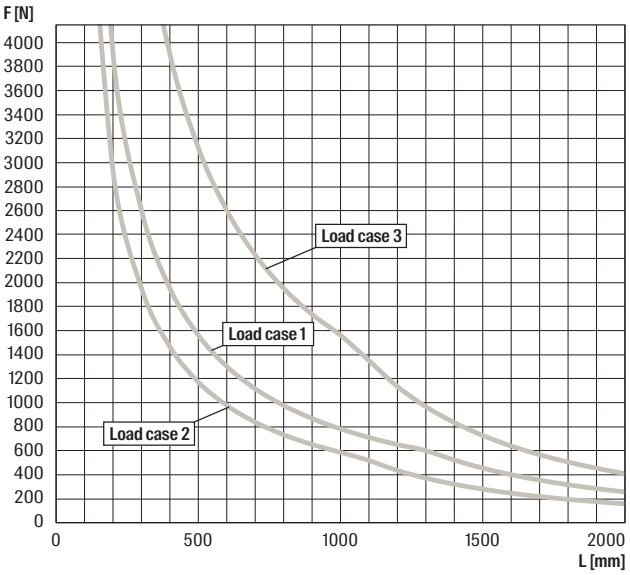


FLS 30/1,0



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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