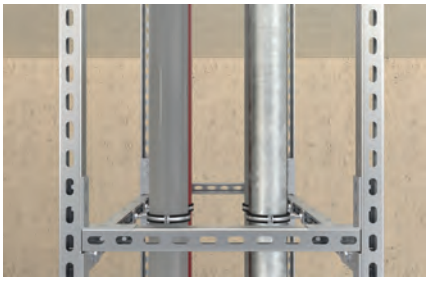
Channel FUS hdg.

The universal and complete mounting channel system for a wide range of applications





3D-frame constructions



Solid frame construction

Applications

- Creation of secure, horizontal and vertical installations
- Fast and efficient fixing of pipelines and supporting structures
- For indoor and outdoor applications and in environments with high stress to components due to corrosion

Certificates



Fire resistance classification R120



MLAR R30

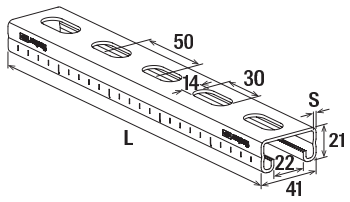
Advantages/benefits

- The fire inspection report in line with MLAR/EN13501 guarantees indipendently tested functional safety.
- The basic channel geometry allows for the usage of the complete extensive range of accessories.
- The stamped teeth in the channel gives the sliding nuts a secure hold for high shear loads, e.g. for vertical installation.
- Different channel wall thicknesses allow for economical choices for installation.
- The scale on the mounting channels simplifies the cutting and positioning of the fixtures during installation.
- The surface coating creates a high corrosion protection against environmental influences like humidity, water, saltwater or other corrosive substances.

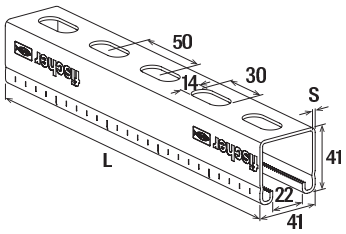
Properties

- Material: steel S235 JR (material no.: 1.0037) acc. to DIN EN 10025
- Zinc plating: hot-dip galvanised, min. 45 µm, acc. to DIN EN ISO 1461

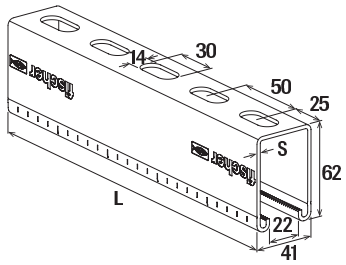
Technical data



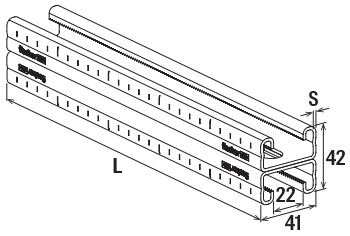
FUS 21



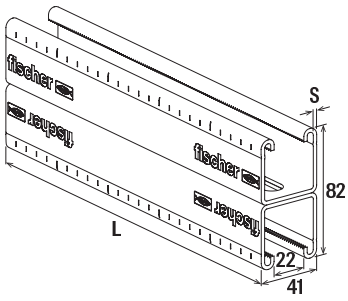
FUS 41



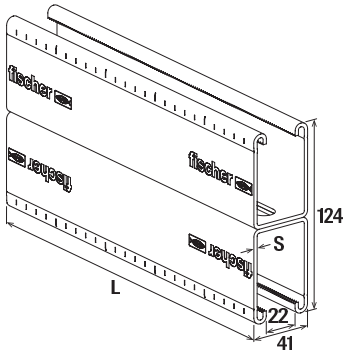
FUS 62



FUS 21D



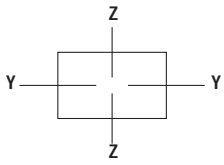
FUS 41D



FUS 62D

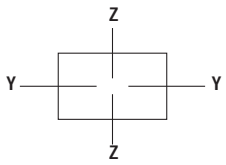
Item	Item No.	Fire test report	Length L [mm]	Thickness S [mm]	Sales unit [pcs]
FUS 21/2,0 - 3 m hdg.	537653	–	3000	2.0	1
FUS 41/2,0 - 3 m hdg.	517426	–	3000	2.0	1
FUS 41/2,0 - 6 m hdg.	537656	–	6000	2.0	1
FUS 41/2,5 - 6 m hdg.	537658	X	6000	2.5	1
FUS 62/2,5 - 3 m hdg.	517427	X	3000	2.5	1
FUS 62/2,5 - 6 m hdg.	517428	X	6000	2.5	1
FUS 21D/2,0 - 3 m hdg.	537659	–	3000	2.0	1
FUS 21D/2,0 - 6 m hdg.	537661	–	6000	2.0	1
FUS 41D/2,5 - 6 m hdg.	537662	–	6000	2.5	1
FUS 62D/2,5 - 6 m hdg.	537663	–	6000	2.5	1

Loads



Item	Item No.	Profil 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]	Max. recommended static load for 2m length F_{rec} [kN]	Max. recommended static load for 3m length F_{rec} [kN]
FUS 21/2,0 - 3 m hdg.	537653	1.44	1.72	0.97	4.66	0.89	2.27	0.49	0.12	0.05
FUS 41/2,0 - 3 m hdg.	517426	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	0.30
FUS 41/2,0 - 6 m hdg.	537656	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	0.30
FUS 41/2,5 - 6 m hdg.	537658	2.45	3.00	6.00	8.99	2.85	4.38	2.14	0.76	0.34
FUS 62/2,5 - 3 m hdg.	517427	3.27	4.05	17.70	12.90	5.62	6.29	4.22	2.10	0.99
FUS 62/2,5 - 6 m hdg.	517428	3.27	4.05	17.70	12.90	5.62	6.29	4.22	2.10	0.99

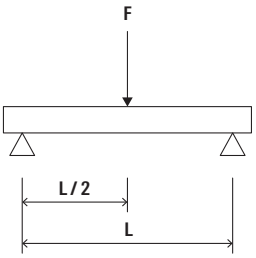
Loads



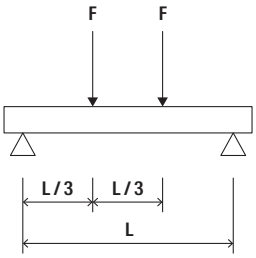
Item	Item No.	Profil weight [kg/m]	Profile cross section [cm²]	Moment of inertia I_y [cm⁴]	Moment of inertia I_z [cm⁴]	Section modulus W_y [cm³]	Section modulus W_z [cm³]	Max. recommended static load for 1m length F_{rec} [kN]	Max. recommended static load for 2m length F_{rec} [kN]	Max. recommended static load for 3m length F_{rec} [kN]
FUS 21D/2,0 - 3 m hdg.	537659	2.87	3.44	5.49	9.31	2.61	4.54	1.96	0.69	0.31
FUS 21D/2,0 - 6 m hdg.	537661	2.87	3.44	5.49	9.31	2.61	4.54	1.96	0.69	0.31
FUS 41D/2,5 - 6 m hdg.	537662	4.89	6.00	35.01	17.90	8.76	8.78	6.58	3.28	1.96
FUS 62D/2,5 - 6 m hdg.	537663	6.55	8.09	111.00	25.80	17.90	12.58	13.45	6.72	4.47

3a

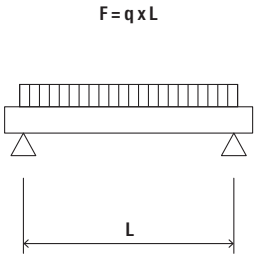
Load case 1



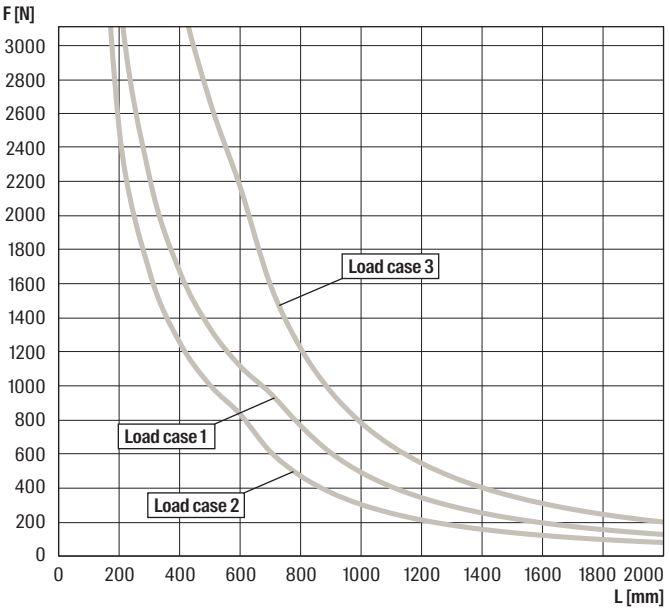
Load case 2



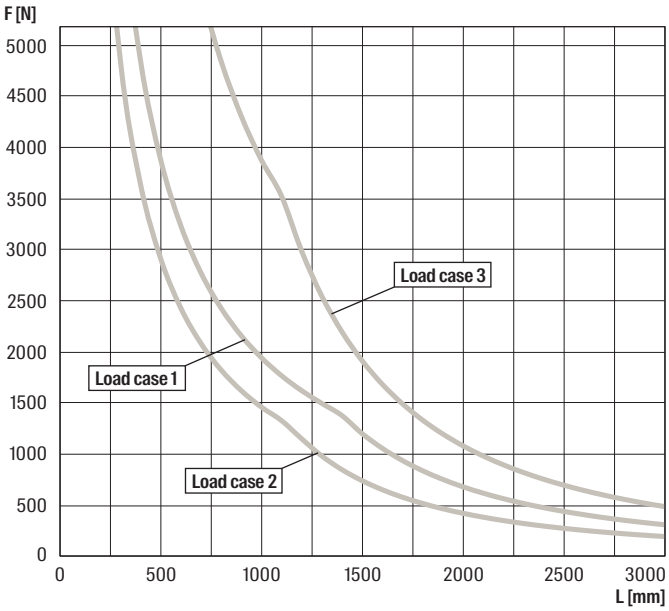
Load case 3



FUS 21/2,0

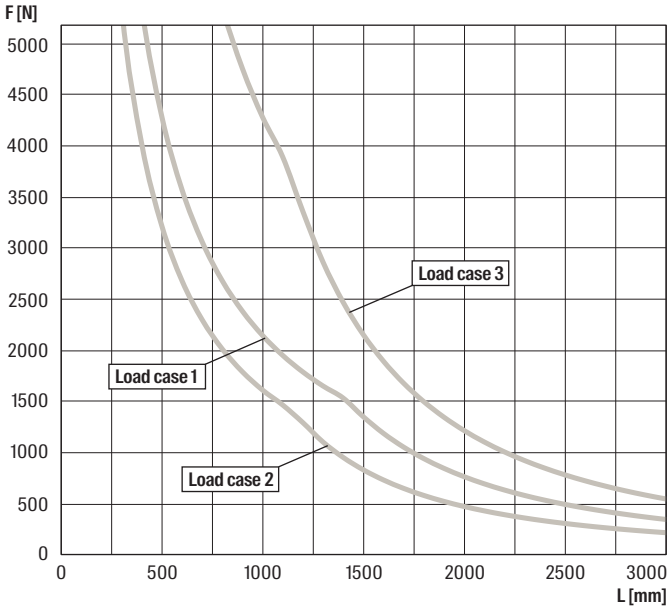


FUS 41/2,0

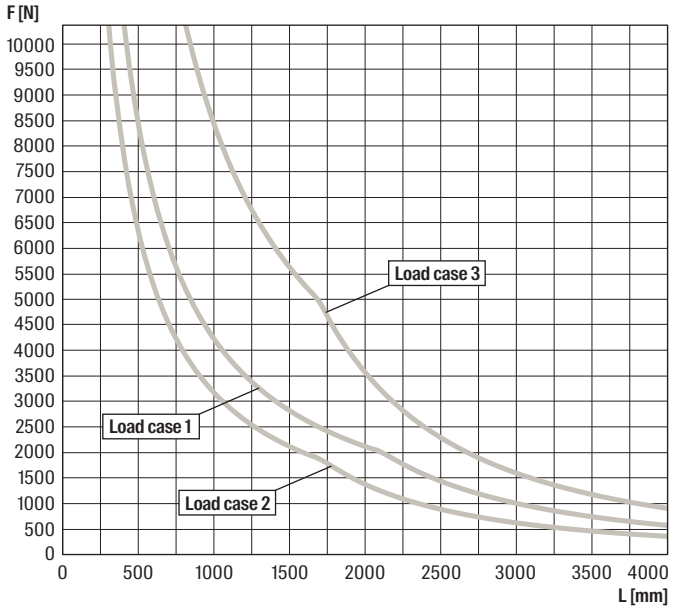


For the load curves, the permissible steel strain $\delta_{adm.}$ = 188 N/mm and the maximum deflection under load L/200 are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calcuated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

FUS 41/2,5

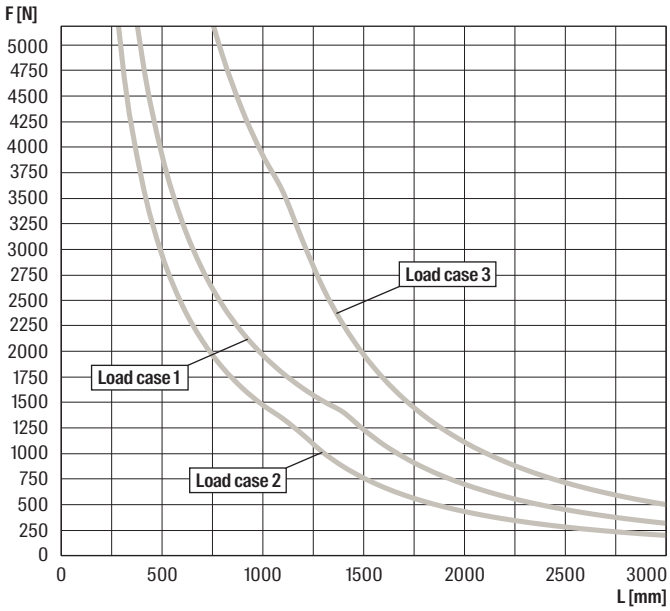


FUS 62/2,5

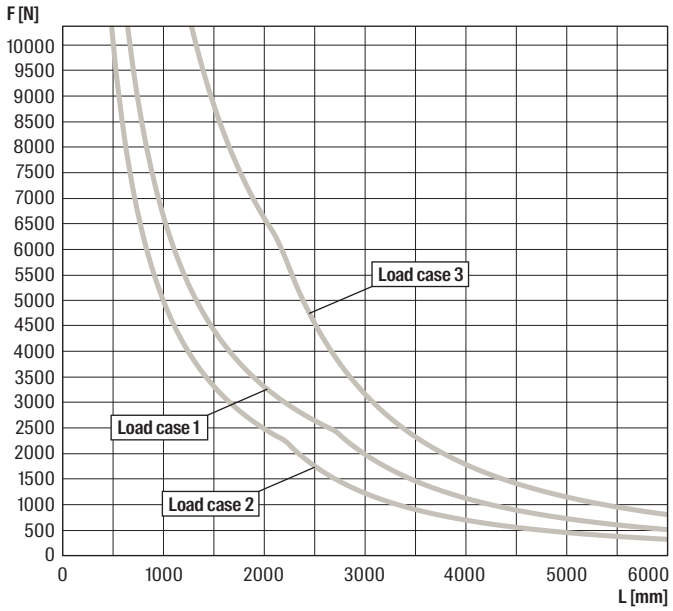


For the load curves, the permissible steel strain $\delta_{adm.}$ = 188 N/mm and the maximum deflection under load L/200 are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calcuated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

FUS 21D/2,0

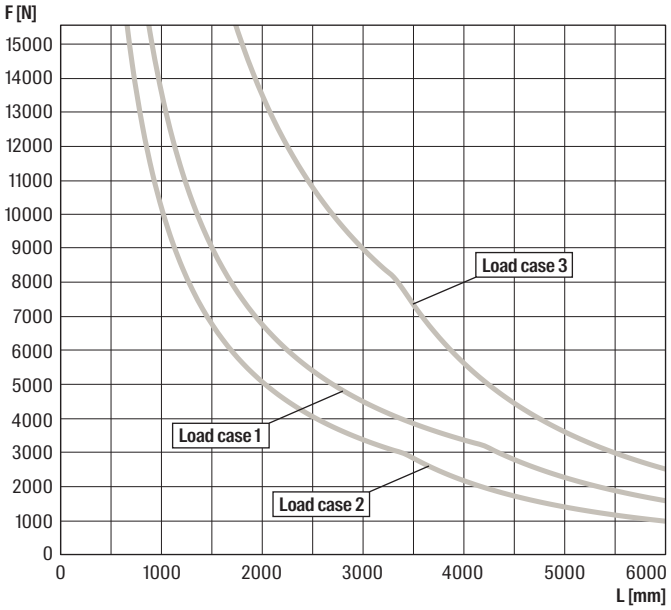


FUS 41D/2,5



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

FUS 62D/2,5



3a

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