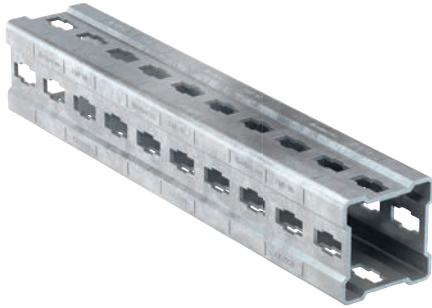


Massive profile FMP

The efficient fixing solution for heavy-duty installations



Frame construction

11

Applications

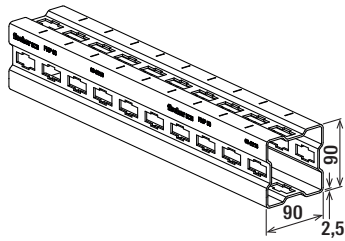
- Secure fastening of heavy duty pipelines.
- Safe construction of solid supporting structures.
- For indoor and outdoor application.

Advantages

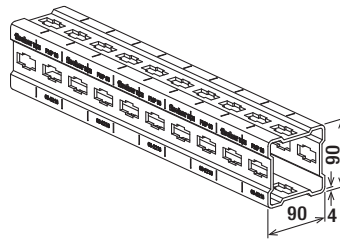
- The clearly arranged product range of profiles and construction elements enables on-site assembly without prefabrication and thus considerably reduces costs and time.
- The fischer massive profiles can be processed exclusively by cutting at right angles, thus reducing waste and material costs.
- The construction with the fischer massive channel system FMS also generates a fixing basis for dynamic loads and makes the system universally applicable.
- The hot-dip galvanised product range guarantees on-site processing without subsequent coating speeding the assembly process sustainably.
- The thick coating of the hot-dip galvanised version is suitable for outdoor installations and in corrosive environments.
- The stamped scaling simplifies the cutting to length of the massive profile FMP and ensures the correct installation of the construction elements.

Properties

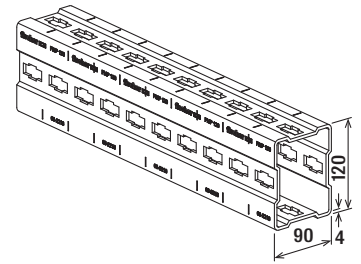
- Material FMP 90 and 120: steel S235JR (material no. 1.0038) acc. to DIN EN 10025-2
- Material FMP 160: steel S355MC (material no. 1.0976) acc. to DIN EN 10149-2
- Zinc plating: hot-dip galvanised



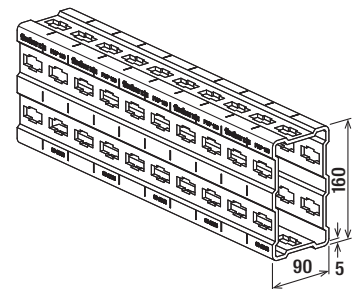
FMP 90/2.5



FMP 90



FMP 120

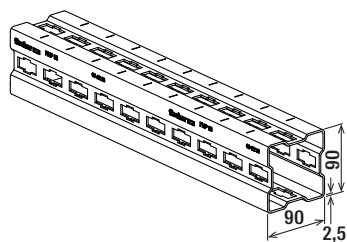


FMP 160

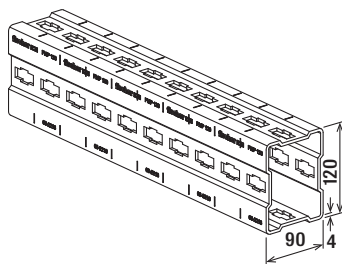
Technical data

Item	Item no.	Length	Width	Height	Profile weight	Channel cross section	Thickness	Sales unit
		L [mm]	B [mm]	H [mm]	[kg/m]	[cm ²]	S [mm]	[pcs]
FMP 90/2,5 - 3 m	560562	3,000	90	90	6.33	7.18	2.5	1
FMP 90/2,5 - 6 m	560563	6,000	90	90	6.33	7.18	2.5	1
FMP 90 - 3 m	547795	3,000	90	90	9.68	10.97	4.0	1
FMP 90 - 6 m	547796	6,000	90	90	9.68	10.97	4.0	1
FMP 120 - 3 m	547797	3,000	90	120	11.85	13.37	4.0	1
FMP 120 - 6 m	547798	6,000	90	120	11.85	13.37	4.0	1
FMP 160 - 6 m	547799	6,000	90	160	16.86	18.91	5.0	1
FMP 160 - 8 m	547800 ¹⁾	8,000	90	160	16.86	18.91	5.0	1

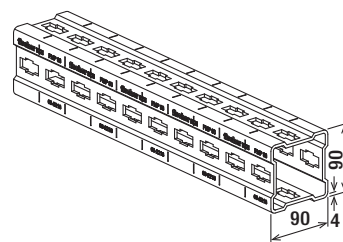
¹⁾ Delivery time on request.



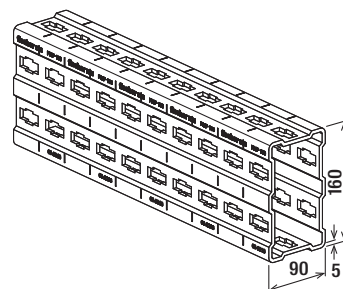
FMP 90/2.5



FMP 120



FMP 90



FMP 160

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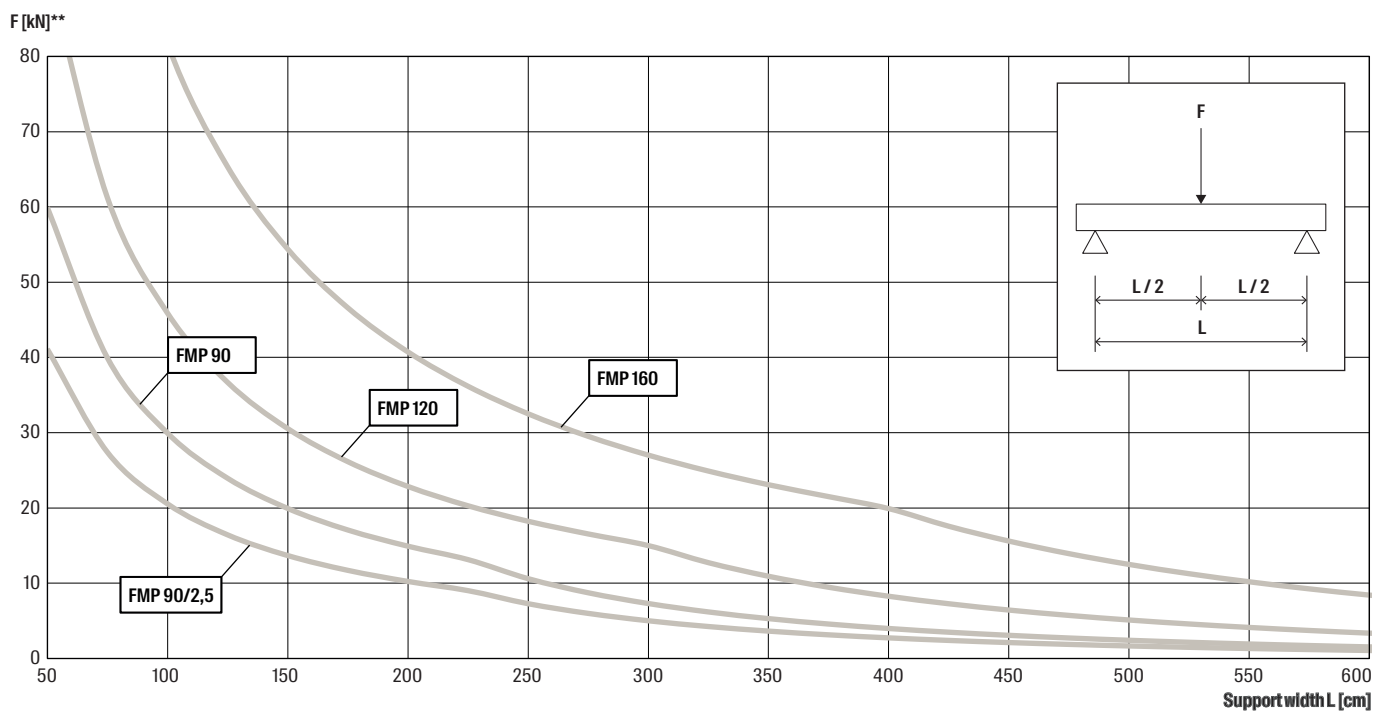
Loads

Item	Item no.	Yield strength f_{yk} [kN/cm ²]	Rec. tensile stress σ_{rec}^* [kN/cm ²]	Rec. shear stress τ_{rec}^* [kN/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]	Radius of gyration i_y [cm]	Radius of gyration i_z [cm]	Torsional moment of inertia I_t [cm ⁴]	Torsional moment of resistance W_t [cm ³]	Sales unit [pcs]
FMP 90/2,5 - 3 m	560562	35.5	25.36	14.64	91.28	91.28	20.28	20.28	3.57	3.57	131.71	34.45	1
FMP 90/2,5 - 6 m	560563	35.5	25.36	14.64	91.28	91.28	20.28	20.28	3.57	3.57	131.71	34.45	1
FMP 90 - 3 m	547795	35.5	25.36	14.64	133.07	133.07	29.57	29.57	3.48	3.48	198.86	52.55	1
FMP 90 - 6 m	547796	35.5	25.36	14.64	133.07	133.07	29.57	29.57	3.48	3.48	198.86	52.55	1
FMP 120 - 3 m	547797	35.5	25.36	14.64	271.97	177.46	45.33	39.44	4.51	3.64	328.80	73.19	1
FMP 120 - 6 m	547798	35.5	25.36	14.64	271.97	177.46	45.33	39.44	4.51	3.64	328.80	73.19	1
FMP 160 - 6 m	547799	35.5	25.36	14.64	645.39	247.28	80.67	54.94	5.84	3.62	583.59	119.31	1
FMP 160 - 8 m	547800 ¹⁾	35.5	25.36	14.64	645.39	247.28	80.67	54.94	5.84	3.62	583.59	119.31	1

¹⁾ Delivery time on request.

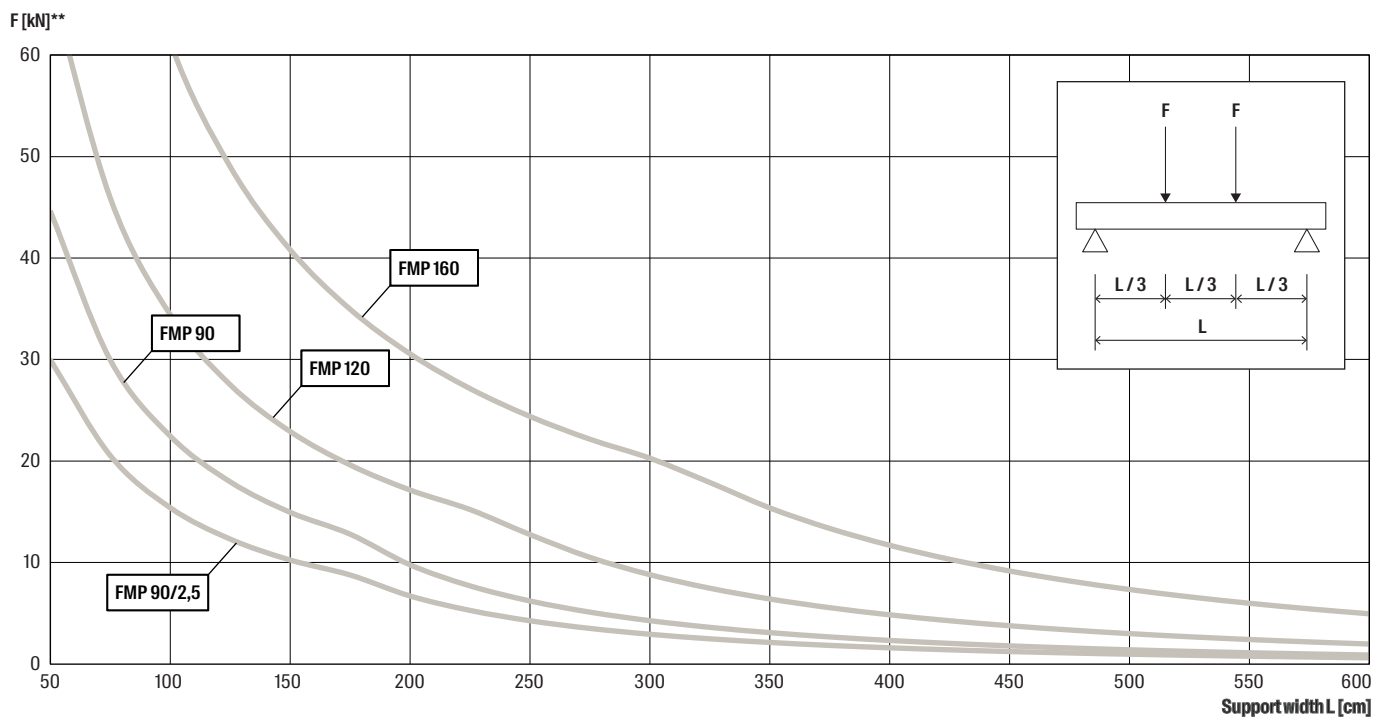
The recommended stress is calculated acc. EN 1993; $\sigma_{rec} = f_{yk} / (v_L \cdot v_{MO})$ with $v_L = 1.4$ and $v_{MO} = 1.0$.

Simply supported beam with single load at L/2



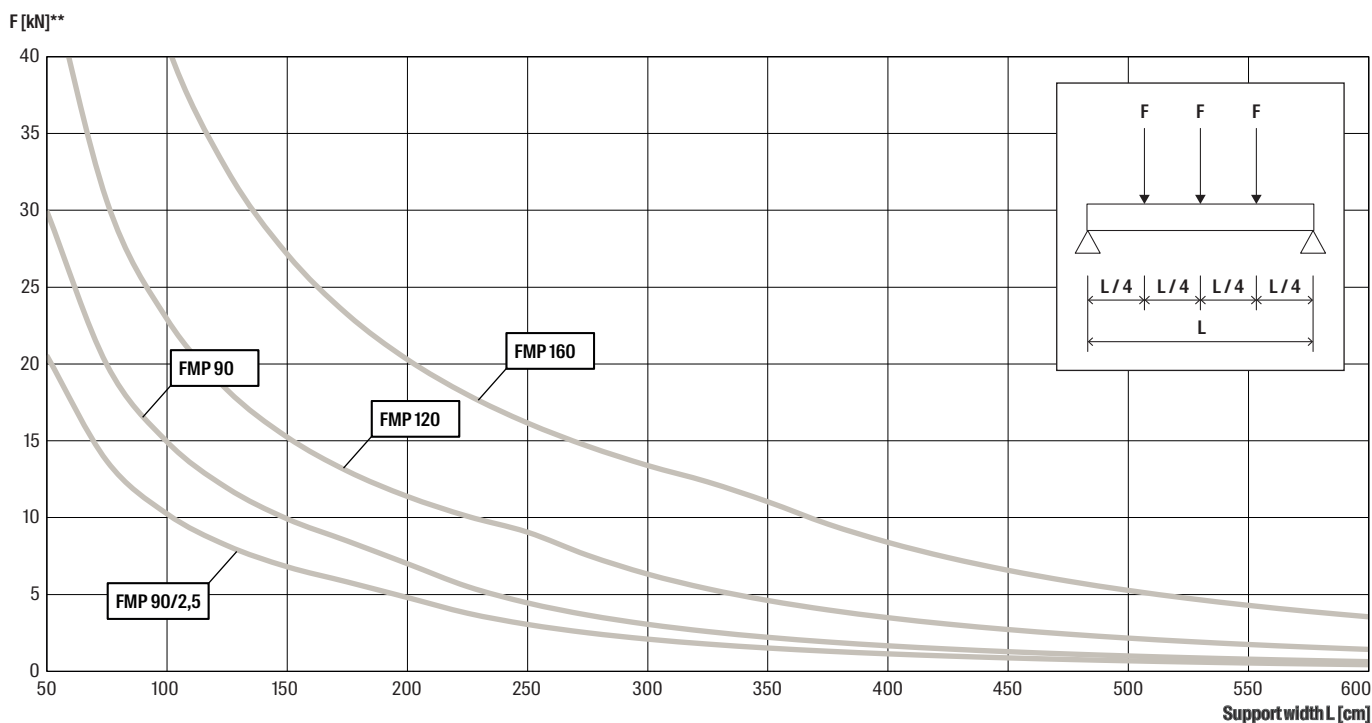
** The permissible stress is calculated acc. EN 1993; $\sigma_{\text{rec}} = f_{yk} / (\gamma_L \cdot \gamma_{MO})$ with $\gamma_L = 1.4$ and $\gamma_{MO} = 1.0$. Lower value of permissible stress (shear, bending or combined) or max. deflection ($L/200$) is decisive

Simply supported beam with two single loads at L/3



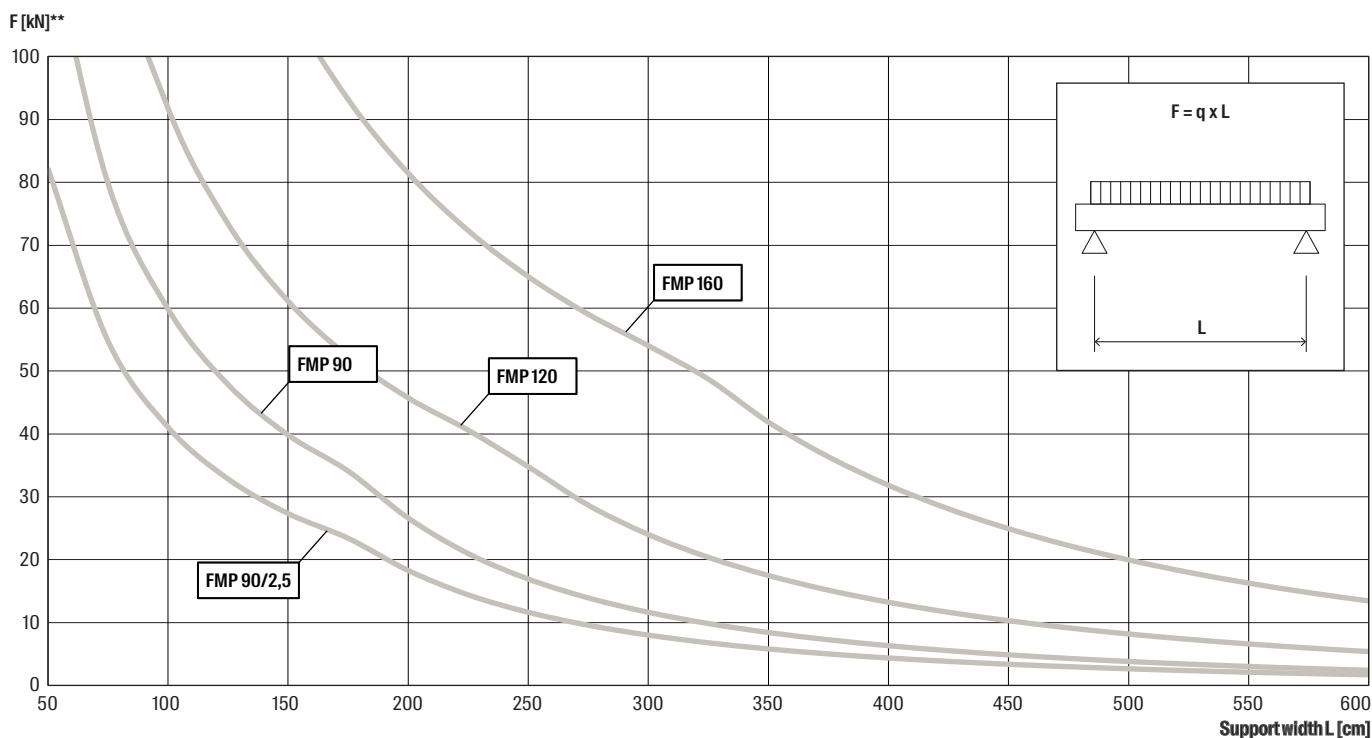
** The permissible stress is calculated acc. EN 1993; $\sigma_{\text{rec}} = f_{yk} / (\gamma_L \cdot \gamma_{MO})$ with $\gamma_L = 1.4$ and $\gamma_{MO} = 1.0$. Lower value of permissible stress (shear, bending or combined) or max. deflection ($L/200$) is decisive

Simply supported beam with three single loads at L/4



** The permissible stress is calculated acc. EN 1993; $\sigma_{rec} = f_{yk} / (\gamma_L \cdot \gamma_{M0})$ with $\gamma_L = 1,4$ and $\gamma_{M0} = 1,0$. Lower value of permissible stress (shear, bending or combined) or max. deflection ($L/200$) is decisive

Uniformly distributed load over the span $F_{rec} = q_{rec} \times L$



** The permissible stress is calculated acc. EN 1993; $\sigma_{rec} = f_{yk} / (\gamma_L \cdot \gamma_{M0})$ with $\gamma_L = 1,4$ and $\gamma_{M0} = 1,0$. Lower value of permissible stress (shear, bending or combined) or max. deflection ($L/200$) is decisive