

MPT-Support profile Q150 with 3 slots

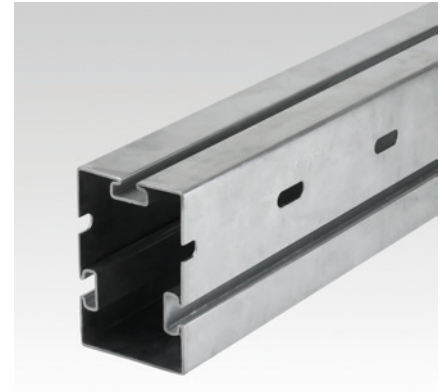
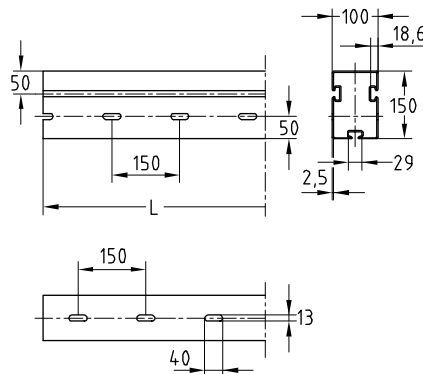
hot-dip galvanised

Field of application

- For support structures used in ship-building and on industrial and plant building sites
- Additional mounting slot increases connection possibilities, for example for 3D fixtures

Advantages

- For construction of safe structures due to the high load-bearing capacity of the profile
- Saves time and costs due to functional accessories that are matched to the support profile
- System components with finished surface and ready for installation save set-up and installation time
- Product quality is ensured through the imprinted manufacturing code
- Continuous fastening groove for flexible arrangement of accessories and fastening components
- Clean-cut appearance by the use of MPT-protection caps



Profile	Profile length L [mm]	Profile thickness s [mm]	Part no.	Sales unit	Pack unit	Weight [kg/piece]
Q150-2.5 with 3 slots	7,050	2.5	161079	1	pieces	94.180



MPT-Girder cleats and further mounting parts for profile Q150 available upon request.

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hot-dip galvanised

Technical data of profile:

Profile 	Material	Surface	Admissible steel stress σ_{adm} [N/mm ²]	Available hammer head bolts	Profile weight [kg/m]	Profile cross-section [cm ²]	Moment of inertia		Resistance moment	
							I_y [cm ⁴]	I_z [cm ⁴]	W_y [cm ³]	W_z [cm ³]
Q150-2.5 with 3 slots	S235	hot-dip galvanised	158	M10 M12	13.08	16.20	445.4	230.6	59.4	46.1

Max. load capacities of profile [N]:

Profile 	Load into direction	L [m] 						L [m] 					
		0.5	1.0	1.5	2.0	4.0	6.0	0.5	1.0	1.5	2.0	4.0	6.0
Q150-2.5 with 3 slots	YY	46,312	26,245	18,430	14,057	6,942	2,747	27,456	17,733	13,084	10,196	4,076	1,612
	ZZ	58,015	34,692	24,067	18,278	9,090	5,754	38,983	23,958	17,307	13,366	6,774	3,377

Profile 	Load into direction	L [m] 						L [m] 					
		0.5	1.0	1.5	2.0	4.0	6.0	0.5	1.0	1.5	2.0	4.0	6.0
Q150-2.5 with 3 slots	YY	18,316	11,814	8,723	6,801	2,923	1,157	14,183	9,476	7,115	5,593	2,296	908
	ZZ	26,009	15,960	11,538	8,915	4,515	2,423	20,289	12,890	9,456	7,354	3,752	1,903

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
 The safety coefficient $\gamma = 1.48$ takes into account the partial and combination coefficients as well as the safety factor of the material.
 For the given values, the permissible steel stress and the maximum permissible deflection $L/200$ are not exceeded, taking the deadweight into consideration.