

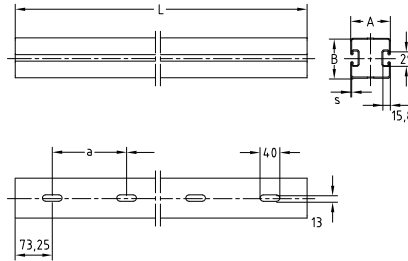
MPT-Support profile Q80 hot-dip galvanised

Field of application

- For support structures used in heavy-duty building technology and on industrial and plant building sites

Advantages

- For construction of safe structures due to the high load-bearing capacity of the profile
- High corrosion protection due to standardised hot-dip galvanising ensures flexible implementation
- Efficient installation due to the double fastening groove
- 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]	Dimensions [mm]		
							A	B	a
Q80-2.0	6,000	2.0	167323	1	pieces	41.400	80	80	150

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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]
Q80-2.0	S235	hot-dip galvanised	158	M10 M12	6.90	8.3	75.70	57.50	18.90	14.30

Max. load capacities of profile [N]:

Profile	Bending 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
Q80-2.0	ZZ	21,462	11,588	7,826	5,878	2,240	843	14,418	8,405	5,776	4,366	1,315	495
	YY	16,955	8,869	5,945	4,448	1,667	588	11,831	6,523	4,417	3,317	978	345

Profile	Bending 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
Q80-2.0	ZZ	9,625	5,599	3,851	2,912	943	355	7,709	4,601	3,188	2,418	741	279
	YY	7,899	4,345	2,945	2,212	702	248	6,407	3,591	2,444	1,839	551	194

-  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.