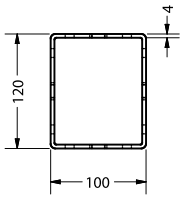
FXT 100 | 120

Heavy Rail Profiles

Hollow Slotted Heavy Rail Profile

Material specifications	
Material	S235JR or equivalent steel
Coatings	Hot-Dip Galvanized



Applications

- Installation of heavy-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Replacement of traditional welded supports for safer and faster installation
- Primary support structure for installation of long runs of different MEP services.

Features & Benefits

- Slots on all four sides provides the flexibilty of installation and standardizing acessories
- Hot-dip galvanized in accordance to EN 1461 assures higher corrosion protection and provides flexibility of using in Indoors as well as outdoors
- Wide range of mounting options in conjunction with FXT Heavy Rail Profile accessories
- High load bearing capacity owing to distinctive design and special material properties
- Functionally designed accessories reduces labour cost and installation time
- Better aesthetics appearence with use of FXT protection caps
- FXT Self Threading Bolts eliminates the need of nuts and washer

Select Variant

Article No. HDG (fvz)	Product Description	W (mm)	H (mm)	t (mm)	Length (mm)
603021	FXT Heavy Rail Profile 100|120|4, 6 m	100	120	4	6000
603024	FXT Heavy Rail Profile 100|120|4, 3 m	100	120	4	3000
603027	FXT Heavy Rail Profile 100|120|4, 2 m	100	120	4	2000

Technical Data:

Profile	Unit Weight	Cross Section Area	Torsional Sectional Modulus	Torsional Moment of Inertia	Moment of Inertia (cm4)		Section Modulus (cm3)	
	(Kg)	(mm^2)	(cm^3)	(cm^4)	Iy (cm^4)	Iz (cm^4)	Wy (cm^3)	Wz (cm^3)
FXT 100|120	11	1145	89	430	240	190	40	38

Load bearing capacities of profiles for bending around the y-axis:

Profile	Bending Direction	qz (kN/m) L (m)						Fz (kN) L (m)					
		1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
FXT 100|120	ZZ	53.00	13.30	4.70	2.00	0.95	0.54	26.00	13.30	8.08	5.20	3.20	2.10

Load bearing capacities of profiles for bending around the y-axis:

Profile	Bending Direction	Fz (kN) L (m)						Fz (kN) L (m)					
		1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
FXT 100|120	ZZ	20.00	9.90	5.50	3.00	1.80	1.20	13.40	6.60	3.90	2.20	1.30	0.86

Note:

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.35 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.