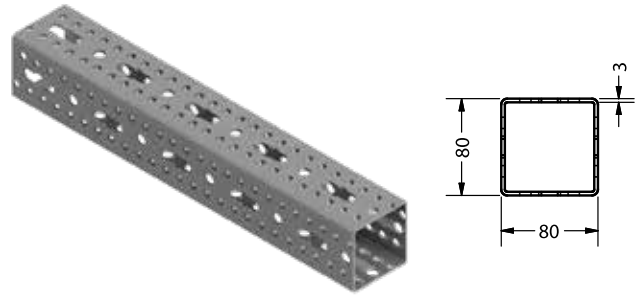


Heavy Rail Profiles

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 flexibility of installation and standardizing accessories
- 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 appearance with use of FXT protection caps
- FXT Self Threading Bolts eliminates the need of nuts and washer

Select Variant

Article No.	Product Description	W (mm)	H (mm)	t (mm)	Length (mm)
603001	FXT Heavy Rail Profile 80 80 3, 6 m	80	80	3	6000
603004	FXT Heavy Rail Profile 80 80 3, 3 m	80	80	3	3000
603007	FXT Heavy Rail Profile 80 80 3, 2 m	80	80	3	2000

Technical Data:

Profile	Unit Weight	Cross Section Area	Torsional Sectional Modulus	Torsional Moment of Inertia	Moment of Inertia (cm ⁴)		Section Modulus (cm ³)	
	(Kg)	(mm ²)	(cm ³)	(cm ⁴)	I _y (cm ⁴)	I _z (cm ⁴)	W _y (cm ³)	W _z (cm ³)
FXT 80 80	5.5	510	35	108	54	54	13	13

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

Profile	Bending Direction	qz (kN/m) L (m)						Fz (kN) L (m)					
		1000	1500	2000	2500	3000	3500	1000	1500	2000	2500	3000	3500
	ZZ	18.00	8.00	3.82	1.94	1.10	0.68	9.00	6.00	4.44	3.14	2.15	1.54

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

Profile	Bending Direction	Fz (kN) L (m)						Fz (kN) L (m)					
		1000	1500	2000	2500	3000	3500	1000	1500	2000	2500	3000	3500
	ZZ	6.83	4.50	2.82	1.80	1.21	0.87	4.50	3.00	2.00	1.20	0.87	0.60

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.