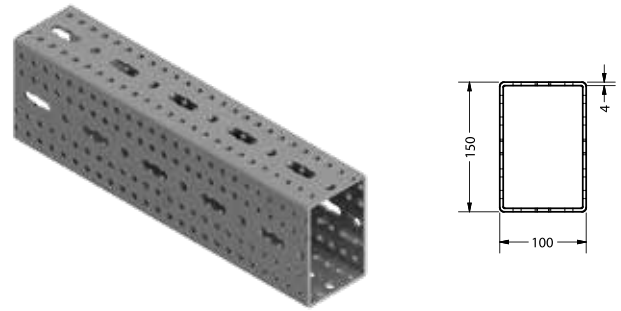


Heavy Rail Profiles

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) |
|-------------|---------------------------------------|--------|--------|--------|-------------|
| 603031 | FXT Heavy Rail Profile 100 150 4, 6 m | 100 | 150 | 4 | 6000 |
| 603034 | FXT Heavy Rail Profile 100 150 4, 3 m | 100 | 150 | 4 | 3000 |
| 603037 | FXT Heavy Rail Profile 100 150 4, 2 m | 100 | 150 | 4 | 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 100 150 | 12 | 1235 | 112 | 618 | 400 | 210 | 50 | 40 |

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 100 150 | ZZ | 71.00 | 17.80 | 7.90 | 3.50 | 1.75 | 0.97 | 35.50 | 17.80 | 11.60 | 8.70 | 5.40 | 3.60 |

Load bearing capacities of profiles for bending around the x-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 100 150 | ZZ | 26.00 | 13.30 | 8.80 | 5.20 | 3.10 | 2.10 | 17.90 | 8.90 | 5.90 | 3.60 | 2.30 | 1.50 |

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.