

Mounting Rails

Universal slotted mounting rail profile

Material specifications	
Material	DX51D or Equivalent steel DD11 or Equivalent steel
Coatings	Galvanized, Hot-Dip Galvanized (HDG), Powder Coating*, Zinc Magnesium*

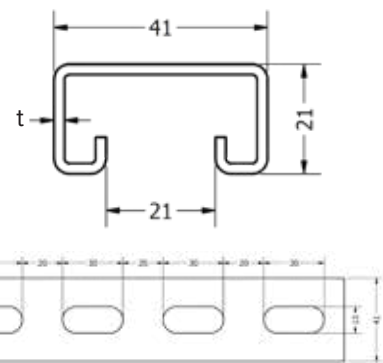


Applications

- Installation of light to medium-duty ventilation ducts, plumbing & firefighting pipes and cable trays
- Secondary support structure for installation of different services.

Features & Benefits

- Wide range of mounting options in conjunction with our FXR mounting rail accessories.
- Quick and efficient attachment of multiple support structure
- Lateral and vertical adjustment with reliable fastening.
- High load bearing capacity owing to special material properties and design.

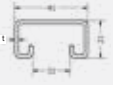


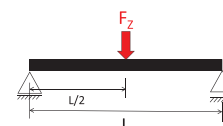
Select Variant

Article No.		Product Description	L (mm)	W (mm)	H (mm)	t (mm)
Galvanized (vz)	HDG (fvz)					
602090	602091	FXR Mounting Rail 41 21 1.5, 6 m	6000	41	21	1.5
602093	602094	FXR Mounting Rail 41 21 1.5, 3 m	3000	41	21	1.5
602096	602097	FXR Mounting Rail 41 21 1.5, 2 m	2000	41	21	1.5
602000	602001	FXR Mounting Rail 41 21 2.0, 6 m	6000	41	21	2.0
602003	602004	FXR Mounting Rail 41 21 2.0, 3 m	3000	41	21	2.0
602006	602007	FXR Mounting Rail 41 21 2.0, 2 m	2000	41	21	2.0
602110	602111	FXR Mounting Rail 41 21 2.5, 6 m	6000	41	21	2.5
602113	602114	FXR Mounting Rail 41 21 2.5, 3 m	3000	41	21	2.5
602116	602117	FXR Mounting Rail 41 21 2.5, 2 m	2000	41	21	2.5

*Available on request

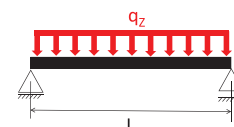
Technical Data:

	41 21 1.5	41 21 2.0	41 21 2.5
			
Sectional Properties:	DX51D + Z275		
Profile Section Area A (cm ²)	1.59	2.06	2.67
Section Modulus Wz (cm ³)	0.84	1.04	1.36
Section Modulus Wy (cm ³)	1.84	2.25	2.87
Moment of inertia Iz (cm ⁴)	1.00	1.23	1.65
Moment of inertia Iy (cm ⁴)	3.78	4.61	6.04
Radius of gyration rz (cm)	0.79	0.77	0.79
Radius of gyration ry (cm)	1.54	1.50	1.50



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

Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000						
5000						
4000						
3500						
3000						
2500						
2000			100	7.61	150	8.30
1500	170	6.05	210	6.08	290	6.23
1250	260	5.21	310	5.06	420	5.10
1000	410	4.14	500	4.11	680	4.16
750	720	3.04	890	3.05	1160	2.96
500	1080	1.34	1340	1.36	1760	1.33
300	1810	0.49	2240	0.49	2930	0.48
250	2170	0.34	2690	0.34	3520	0.33
200	2720	0.22	3370	0.22	4410	0.21
100	5450	0.05	6740	0.05	8820	0.05



Rail Length (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)	Max Design Load (N)	Deflection (mm)
6000						
5000						
4000						
3500						
3000						
2500						
2000	140	8.09	170	8.02	240	8.30
1500	280	6.22	340	6.15	460	6.18
1250	410	5.14	500	5.10	680	5.16
1000	660	4.16	810	4.16	1090	4.16
750	1180	3.11	1450	3.11	1950	3.11
500	2170	1.69	2690	1.70	3520	1.66
300	3630	0.61	4490	0.61	5870	0.60
250	4350	0.42	5390	0.42	7050	0.41
200	5450	0.27	6740	0.27	8820	0.27
100	10900	0.07	13490	0.07	17640	0.07

Note:

- The determined loads apply for static loads. Calculation based on Eurocode (EC3).
- The safety coefficient = 1.54 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.