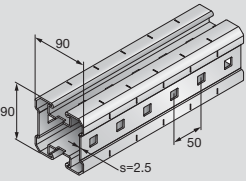
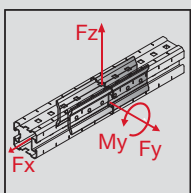
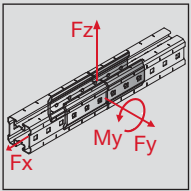


Technical data for girder MIQ / cross-section values inclusive torsion

			
			MIQ-90
Channel wall thickness	t	[mm ²]	2.5
Cross-sectional area	A	[mm ²]	1093.51
Channel weight		[kg/m]	8.58
Material			
yield strength	f _{y,k}	[N/mm ²]	275
permissible stress*	σ _{perm}	[N/mm ²]	178.6
thrust-module		[N/mm ²]	81000
Surface			
hot dip galvanized	70	[μm]	65
Cross-section values Y-axis			
Axis of gravity	e _y	[mm]	45
moment of inertia	I _y	[cm ⁴]	121.65
Section modulus	W _y	[cm ³]	27.03
Radius of gyration	i _y	[cm]	3.34
Cross-section values z-axis			
Axis of gravity	e _z	[mm]	45
moment of inertia	I _z	[cm ⁴]	101.29
Permtion modulus	W _z	[cm ³]	22.51
Radius of gyration	i _z	[cm]	3.04
Data to the torsion			
torsional moment of inertia	Σ I _t	[cm ⁴]	54.35
torsional resistance moment	W _t	[cm ³]	9.1

1) The permissible tension results out of f_{y,k}/Y_G/Q with γ=1.54.

Load drawing	± F _x	± F _y	± F _z	± M _y
MI Side 	34.67 kN	5.0 kN	13.33 kN	1.2 kN
MIQ Side 	34.67 kN	3.33 kN	14.67 kN	1.2 kN

Load values are only valid if use in pairs.

Shown load values are recommended values with partial safety factors for actions and resistance included. Design value = 1.5 * recommended value.