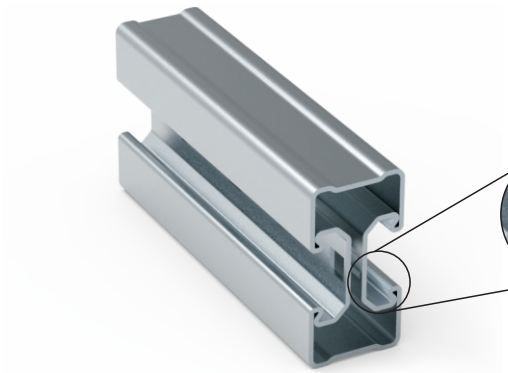
Beam Section AF S50

A modular steel framing system designed to make up supporting for cable trays,pipes,and support structures in heavy-duty building technology such as for industrial construction, plant construction,building catwalks,work platform etc.



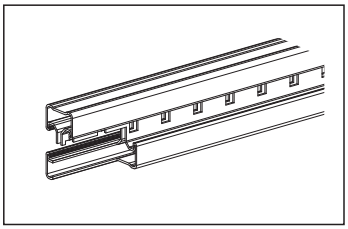
The Key Advantages

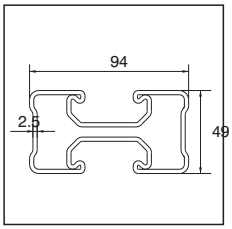
- A modular steel work support system provides an easy-to-install, adjustable,flexible solution for industrial and heavy commercial applications.
- Two-sided continuous fastening groove Beam Section AF S50 creates unique features of flexible arrangement of accessories and fastening components.
- Efficient installation due to the prefabricated structural components.
- For erecting safe structures due to the high load-bearing capacity of the sections.
- The high torsional resistance shape achieved by a totally closed profile design.
- The structural elements and pipe supports can be attached on all four-and-two-sided continuous fastening groove with virtually no placement restrictions.
- High tension T-head Bolt specially designed for quickly connecting all components.
- Saving time and money with the functional accessories that are matched to the section.
- High level hot-dipped galvanized corrosion protection.
- Compatible with generic strut system.

Technical Data

- **Material Composition:**
  Steel S275JR - EN 10025
- **Surface Finish:**
  Hot-dipped galv. 55µm DIN EN ISO 1461

Model and designs are patented by EUROFIX®.





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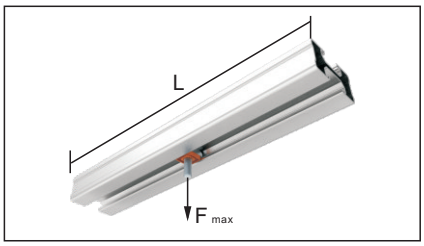
AlphaFrame®
PATENTED MODEL

Section	Part-No.	Length L [mm]	Thickness T [mm]	Weight [kg/pc]	Pack Size [pcs]
AF S50	21105003	3,000	2.5	22.95	1
AF S50	21105006	6,000	2.5	45.90	1

Overview Technical Values

Section	Available T-head bolt	Section Weight	Cross-section	Material yield strength	Elasticity Modulus	Shear Modulus	Moment of inertia		Section modulus		Radius of Gyration	
							Iy	Iz	Wy	Wz	Ry	Rz
		[kg/m]	[cm²]	[Mpa]	[Gpa]	[Gpa]	[cm⁴]	[cm⁴]	[cm³]	[cm³]	[cm]	[cm]
AF S50	M12	8	9.98	275	210	81	89.21	27.57	18.98	11.25	2.99	1.66

Max. permissiable point load [N]

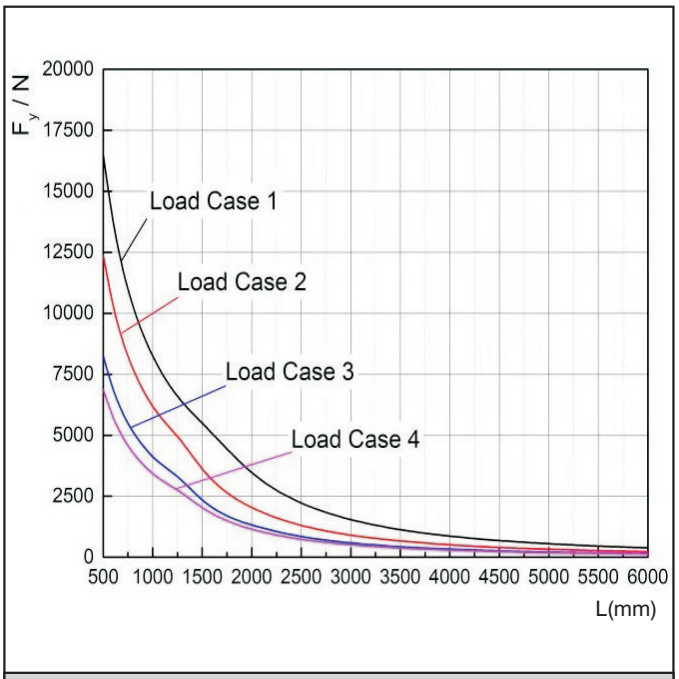


Length [mm]	Max. permissiable point load [N]
500	8000

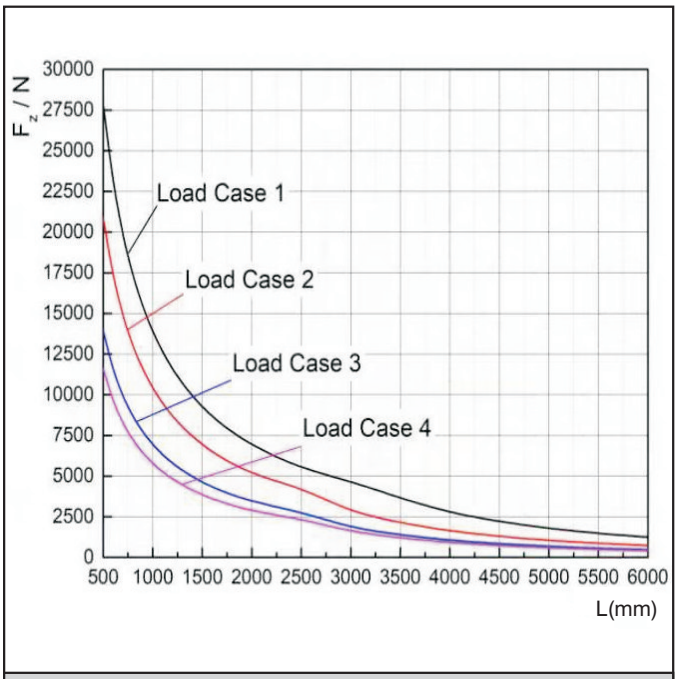
Max. load capacities [N]

Section	Case1 L[m]				Case2 L[m]				Case3 L[m]				Case4 L[m]			
	0.5	1.0	1.5	2.0	0.5	1.0	1.5	2.0	0.5	1.0	1.5	2.0	0.5	1.0	1.5	2.0
AF S50-Fy	16,500	8,250	5,500	3,474	12,375	6,188	3,625	2,039	8,250	4,125	2,357	1,326	6,875	3,438	2,040	1,148
AF S50-Fz	27,837	13,919	9,279	6,959	20,878	10,439	6,959	5,220	13,919	6,959	4,640	3,480	11,599	5,799	3,866	2,900

- At the stated values, the permissible steel stress of 160 N/mm² must not exceed and the maximum deflection under load L/200 must be taken into its own weight account.
- Load capacity values are valid for primarily static load.



AlphaFrame® Beam Section AF S50/2.5



AlphaFrame® Beam Section AF S50/2.5