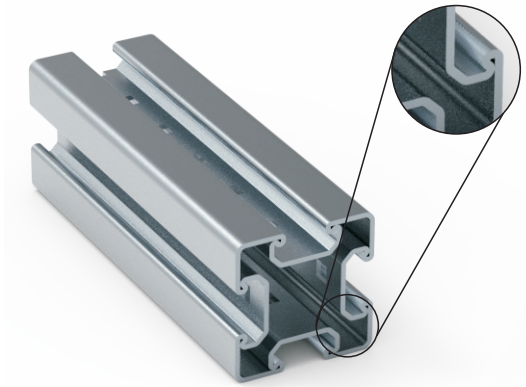
Beam Section AF S100

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.



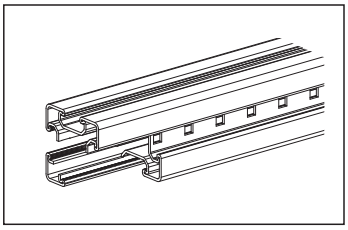
The Key Advantages

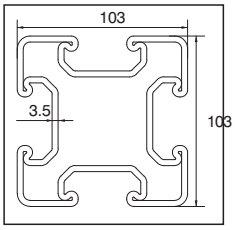
- A modular steel work support system provides an easy-to-install, adjustable,flexible solution for industrial and heavy commercial applications.
- Four-sided continuous fastening groove Beam Section AF S100 creates unique features of flexible arrangement of accessories and fastening components.
- Efficient 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-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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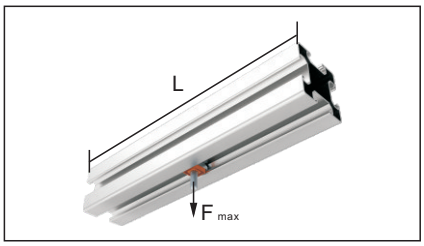
AlphaFrame®
PATENTED MODEL

Section	Part-No.	Length L [mm]	Thickness T [mm]	Weight [kg/pc]	Pack Size [pcs]
AF S100	21110003	3,000	3.5	55.20	1
AF S100	21110006	6,000	3.5	110.40	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	
z y							Iy	Iz	Wy	Wz	Ry	Rz
		[kg/m]	[cm²]	[Mpa]	[Gpa]	[Gpa]	[cm⁴]	[cm⁴]	[cm³]	[cm³]	[cm]	[cm]
AF S100	M12	18.4	15.39	275	210	81	295.60	295.60	57.21	57.21	3.52	3.52

Max. permissiable point load [N]

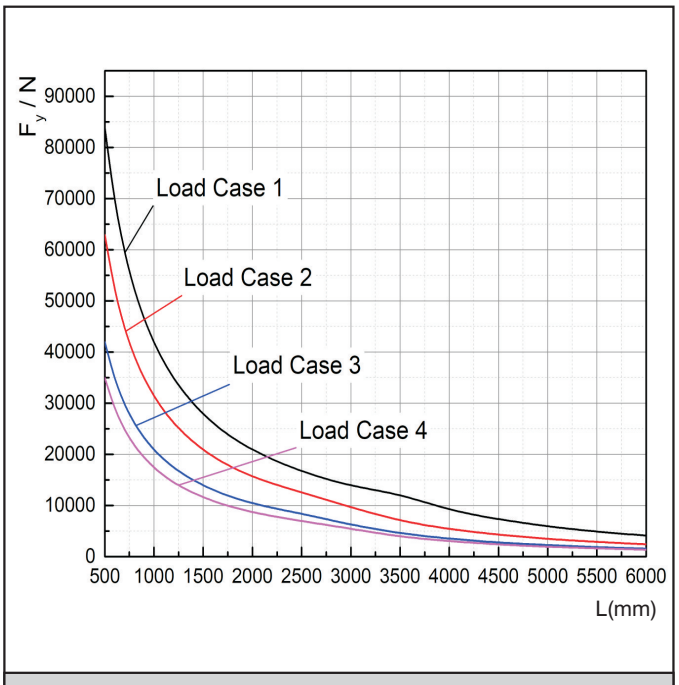


Length [mm]	Max. permissiable point load [N]
500	8000

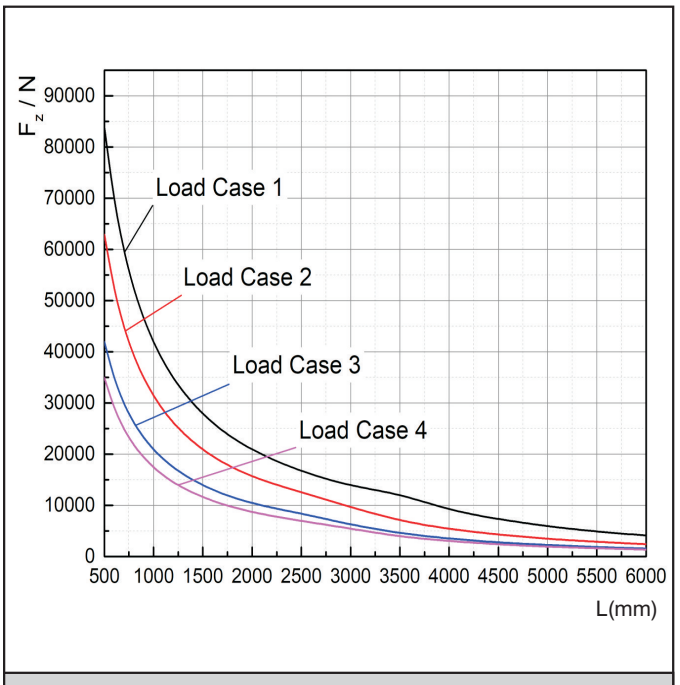
Max. load capacities [N]

Section	Case1 L[m]				Case2 L[m]				Case3 L[m]				Case4 L[m]			
z y	F, L/2, L/2				F, F, L/3, L/3, L/3				F, F, F, L/4, L/4, L/4, L/4				F, F, F, F, L/5, L/5, L/5, L/5, L/5			
	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 S100-Fy	83,910	41,950	27,970	20,980	62,930	31,470	20,980	15,730	41,950	20,980	13,980	10,490	34,960	17,480	11,650	8,740
AF S100-Fz	83,910	41,950	27,970	20,980	62,930	31,470	20,980	15,730	41,950	20,980	13,980	10,490	34,960	17,480	11,650	8,740

- 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 S100/3.5



AlphaFrame® Beam Section AF S100/3.5