



MECHANICAL CHARACTERISTICS

- Section Area 323.64 mm²
- Weight 0.54 kg/m
- Inertia
I_x: 28502 mm⁴
I_y: 77546 mm⁴
- Section Modulus
W_x: 2049 mm³
W_y: 3041 mm³

BASE MATERIAL

Pultruded channel
Glass fibre reinforced

APPROVALS AND CERTIFICATES



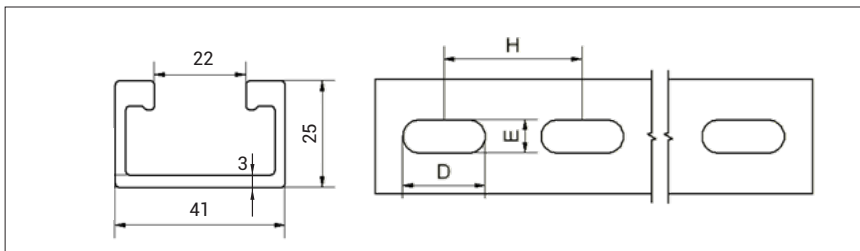
TECHNICAL CHARACTERISTICS

- Resistant to corrosive environments.
- Rust and corrosion resistant.
- Electrical and thermal properties.
- Fire retardant and self-extinguishing properties of UL94 – V0.
- Lightweight.
- Easy to drill and cut.

STANDARD LENGTHS

CODE	Metric Length
4125SFS05	500 mm
4125SFS09	900 mm
4125SFS18	1800 mm
4125SFS30	3000 mm

MAIN DIMENSIONS



Slots Dimensions		
D	E	H
30mm	12mm	50mm

RECOMMENDED LOADS

Load Variation

Load capacity is affected by temperature exposure. In continuous exposure, the load capacity has to be modified according to the following specifications:

The “k_T” factor has to be applied in order to know the real load capacity.

$$F_{per} = k_T \cdot F^*$$

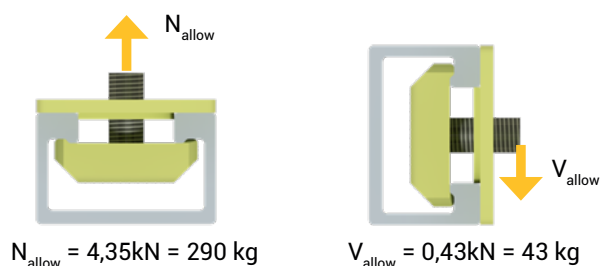
Load Variation under Temperature				
Temperature	- 40°C	+ 23°C	+ 40°C	+ 70°C
Coeff. “K _T ”	0.94	1.00	0.87	0.65

*The information detailed, is based on data from raw material suppliers.

* The F values are obtained from load tables based on load distribution and span distance.

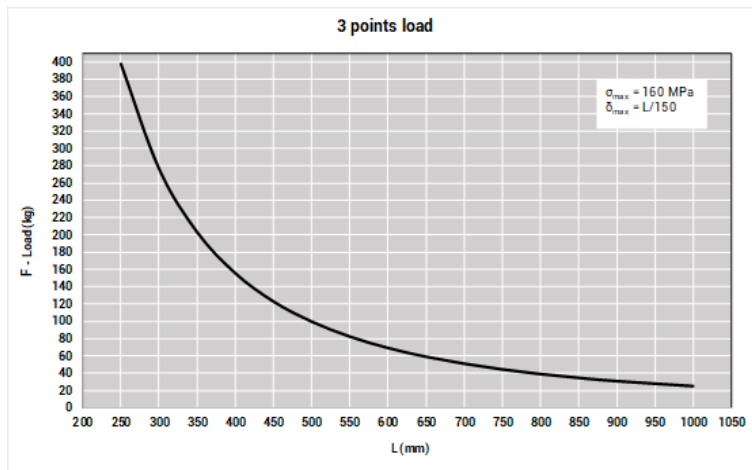
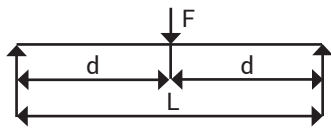
The temperatures between indicated values, can be interpolated.

Application load capacity



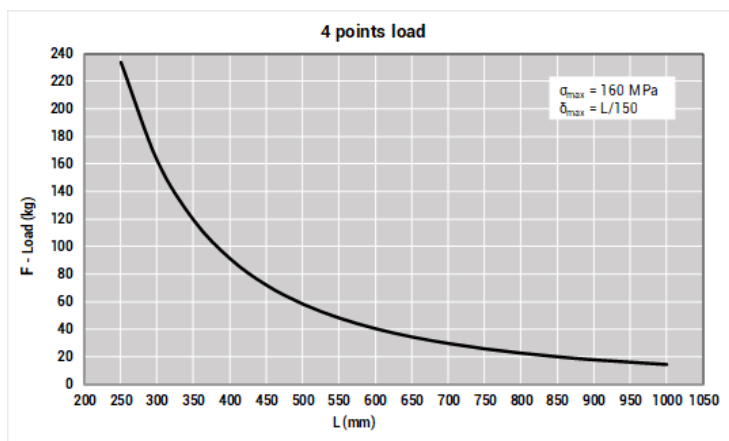
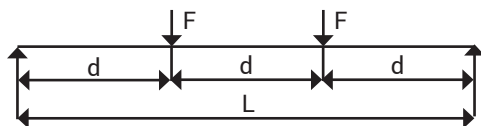
Small Things Matter

3 POINTS BENDING



T.+ 23°C	SFS Channel	
	"F" Max. Load	Deflection Max. Load
L	(kg)	(mm)
250 mm	398	1.67
300 mm	276	2.00
350 mm	203	2.33
400 mm	155	2.67
450 mm	123	3.00
500 mm	99	3.33
550 mm	82	3.67
600 mm	69	4.00
650 mm	59	4.33
700 mm	51	4.67
750 mm	44	5.00
800 mm	39	5.33
850 mm	34	5.67
900 mm	31	6.00
1000 mm	25	6.67

4 POINTS BENDING

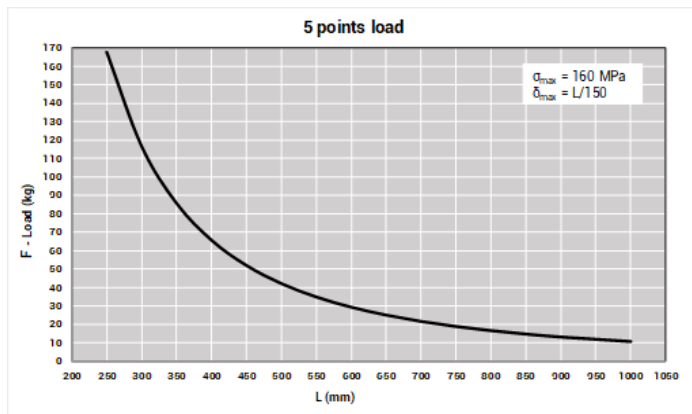
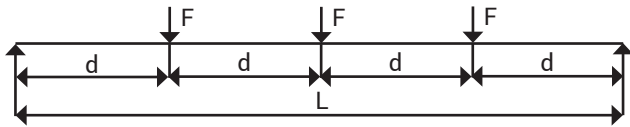


T.+ 23°C	SFS Channel	
	"F" Max. Load	Deflection Max. Load
L	(kg)	(mm)
250 mm	234	1.67
300 mm	162	2.00
350 mm	119	2.33
400 mm	91	2.67
450 mm	72	3.00
500 mm	58	3.33
550 mm	48	3.67
600 mm	41	4.00
650 mm	35	4.33
700 mm	30	4.67
750 mm	26	5.00
800 mm	23	5.33
850 mm	20	5.67
900 mm	18	6.00
1000 mm	15	6.67

Permissible loads are based on the following limits:

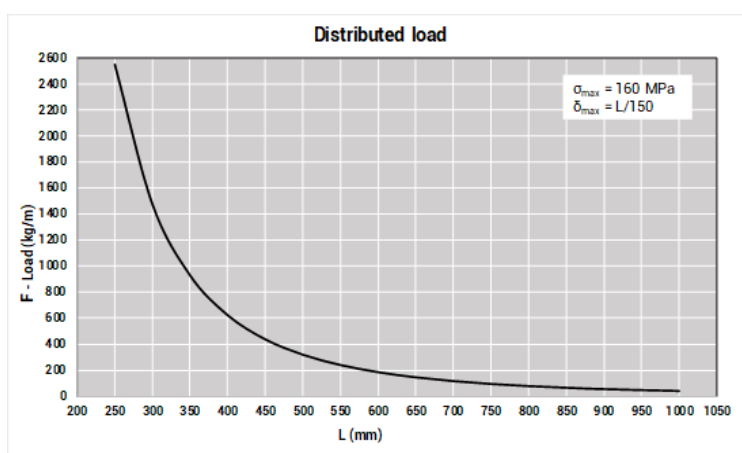
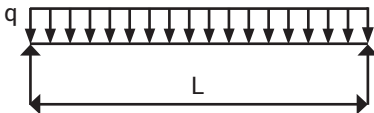
- 160MPa tension
- Deflection of L/150

5 POINTS BENDING



T.+ 23°C	SFS Channel	
	"F" Max. Load	Deflection Max. Load
L	(kg)	(mm)
250 mm	168	1.67
300 mm	116	2.00
350 mm	85	2.33
400 mm	65	2.67
450 mm	52	3.00
500 mm	42	3.33
550 mm	35	3.67
600 mm	29	4.00
650 mm	25	4.33
700 mm	21	4.67
750 mm	19	5.00
800 mm	16	5.33
850 mm	14	5.67
900 mm	13	6.00
1000 mm	10	6.67

DISTRIBUTED LOAD



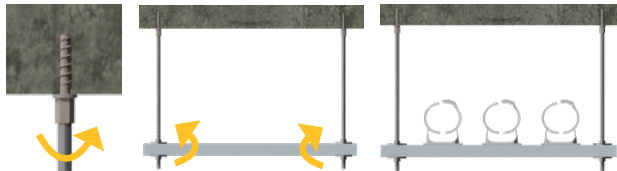
T.+ 23°C	SFS Channel	
	"F" Max. Load	Deflection Max. Load
L	(kg)	(mm)
250 mm	2547	1.67
300 mm	1474	2.00
350 mm	928	2.33
400 mm	622	2.67
450 mm	437	3.00
500 mm	318	3.33
550 mm	239	3.67
600 mm	184	4.00
650 mm	145	4.33
700 mm	116	4.67
750 mm	94	5.00
800 mm	78	5.33
850 mm	65	5.67
900 mm	55	6.00
1000 mm	40	6.67

Permissible loads are based on the following limits:

- 160MPa tension
- Deflection of L/150

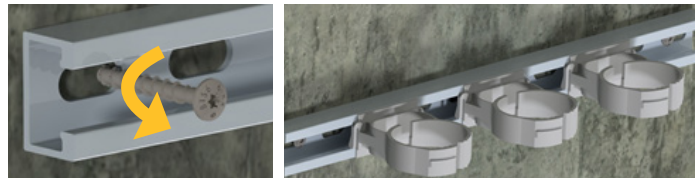
INSTALLATION PROCEDURE

• Suspended installation



1. Anchor installation
2. Rail Assembling
3. Application assembly

• Direct installation



1. Rail fastening
2. Application assembly

CUTTING

To cut the SFS at a specific length, both hand held saws or circular power saws can be used. It is recommended to wear dust filter masks, gloves and long sleeve clothing during the cutting process.

INSTALLATION PARAMETERS

Based on span distances and load configuration, admissible channel loads are specified in previous points. It is extremely important not exceed these values.

Admissible channel loads are based on simple span configuration and when correctly implemented, avoid rotation at fixing points.

APPLICATIONS

