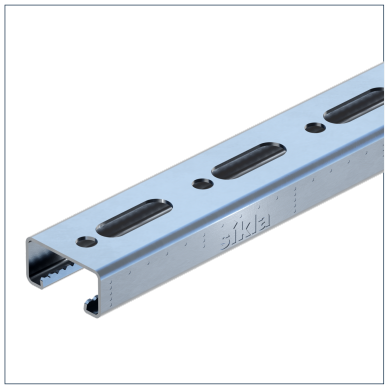
Channel MS 41 HCP









General Information

The Channel MS 41 is a versatile fastening element for technical building equipment and industrial plant construction. It is ideal for the simple and professional manufacturing of crossbars, wall brackets and support frames – both directly on the construction site and for pre-assembly. The internal serration and the possibility of combining it with siConnect system components such as the Slide Element GS 41, the Beam Clamp TCS 1, the T-Head Bolt TBO HZ and all other Sikla CC components, it offers maximum flexibility during installation. The MS 41 is available in various designs, for example as a trapezoidal rail for higher loads.

Installation

All Channels MS 41 hcp are serrated inside and provide numerous combination options with other high corrosion protected system components.

Mechanical Properties

Permissible yield strength f{y,perm.}	285.00 N/mm²
Permissible stress σ{perm.}	185.00 N/mm²

Material Properties

Halogen-free	0
UV-resistant	0

Material

Primary element material	steel
Surface finish	HCP
Corrosion protection class	C4

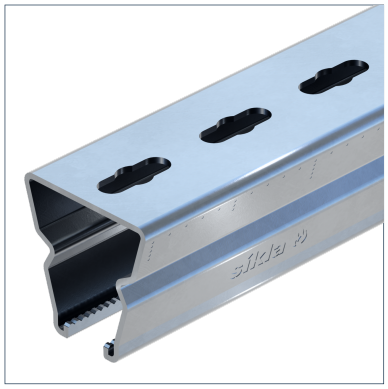
Forces

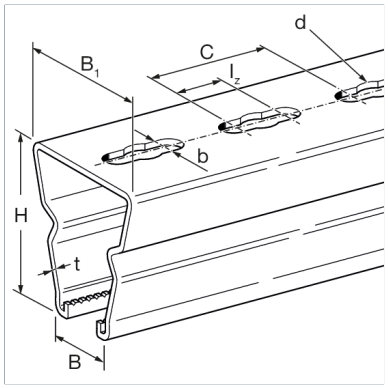
Type	V{Z,perm.}
MS 41/21/2,0 6M HCP	4.00 kN
MS 41/41/2,0 6M HCP	4.00 kN
MS 41/41/2,5 6M HCP	6.00 kN
MS 41/62/2,5 6M HCP	6.00 kN
MS 41-75/75/3,0 6M HCP	10.00 kN

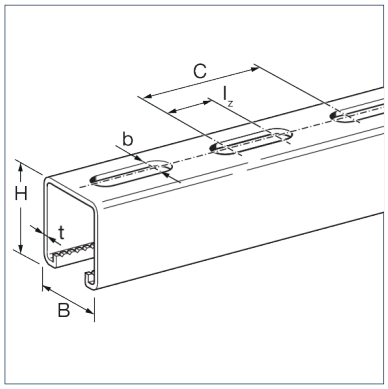
Moments

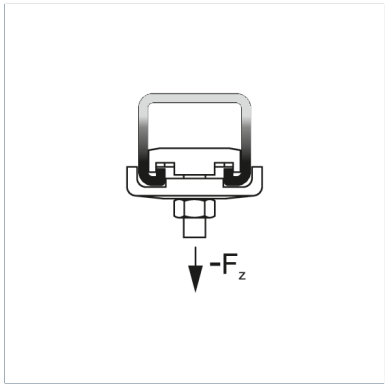
Type	M{X,perm.}
MS 41/21/2,0 6M HCP	0.04 kNm
MS 41/41/2,0 6M HCP	0.04 kNm
MS 41/41/2,5 6M HCP	0.04 kNm

Channel MS 41 HCP









Type	M{X,perm.}
MS 41/62/2,5 6M HCP	0.04 kNm
MS 41-75/75/3,0 6M HCP	0.04 kNm

Cross-section values 1

Type	Elastic modulus Wy	Elastic modulus Wz	Second moment of area Iy	Second moment of area Iz	Radius of gyration iy	Radius of gyration iz
MS 41/21/2,0 6M HCP	0.82 cm³	2.11 cm³	0.92 cm^4	4.32 cm^4	0.75 cm	1.64 cm
MS 41/41/2,0 6M HCP	2.50 cm³	3.65 cm³	5.21 cm^4	7.48 cm^4	1.44 cm	1.73 cm
MS 41/41/2,5 6M HCP	2.94 cm³	4.39 cm³	6.17 cm^4	9.01 cm^4	1.42 cm	1.72 cm
MS 41/62/2,5 6M HCP	5.75 cm³	6.29 cm³	18.08 cm^4	12.91 cm^4	2.10 cm	1.77 cm
MS 41-75/75/3,0 6M HCP	10.29 cm³	11.41 cm³	44.30 cm^4	42.80 cm^4	2.53 cm	2.48 cm

Cross-section values 2

Type	Torsional constant It	Cross-sectional area A
MS 41/21/2,0 6M HCP	0.01 cm^4	1.60 cm²
MS 41/41/2,0 6M HCP	0.03 cm^4	2.48 cm²
MS 41/41/2,5 6M HCP	0.05 cm^4	3.03 cm²
MS 41/62/2,5 6M HCP	0.07 cm^4	4.08 cm²
MS 41-75/75/3,0 6M HCP	0.16 cm^4	6.92 cm²

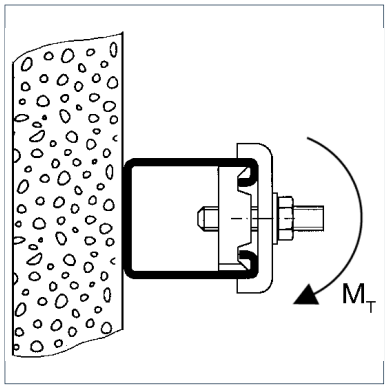
Note on loadings

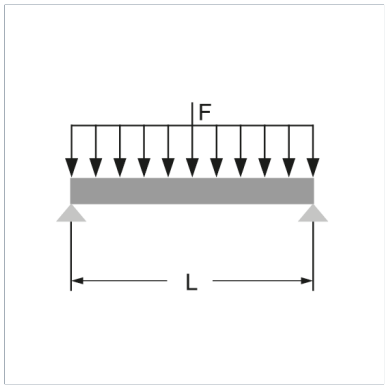
Note: All values refer to slotted channels.

Types

Type	L	Weight	Quantity	Part number
MS 41/21/2,0 6M HCP	6000 mm	1.300 kg/m	6 m	193860
MS 41/41/2,0 6M HCP	6000 mm	1.910 kg/m	6 m	196724
MS 41/41/2,5 6M HCP	6000 mm	2.360 kg/m	6 m	161497
MS 41/62/2,5 6M HCP	6000 mm	3.130 kg/m	6 m	199527
MS 41-75/75/3,0 6M HCP	6000 mm	5.680 kg/m	6 m	174008

Channel MS 41 HCP





Dimensions

Type	b	B	B1	C	d	H	lz	t
MS 41/21/2,0 6M HCP	13 mm	41 mm		62.5 mm		21 mm	27 mm	2 mm
MS 41/41/2,0 6M HCP	13 mm	41 mm		62.5 mm		41 mm	27 mm	2 mm
MS 41/41/2,5 6M HCP	13 mm	41 mm		62.5 mm		41 mm	27 mm	2.5 mm
MS 41/62/2,5 6M HCP	13 mm	41 mm		62.5 mm		62 mm	27 mm	2.5 mm
MS 41-75/75/3,0 6M HCP	13 mm	41 mm	75 mm	62.5 mm	17 mm	75 mm	27 mm	3 mm

Certification

This product is has obtained the "RAL Gütezeichen Rohrbefestigung" and is subject to external surveillance according to RAL GZ-655.

Documents

Channel MS 41 – RAL-GZ 655