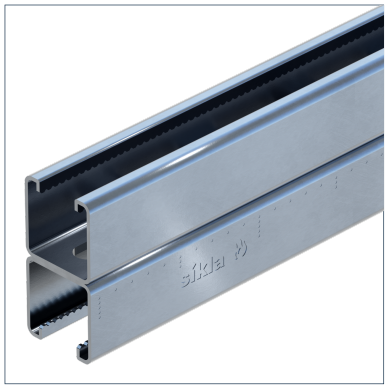
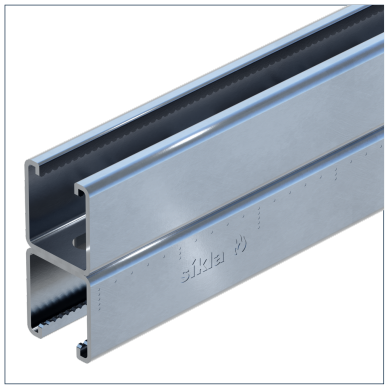
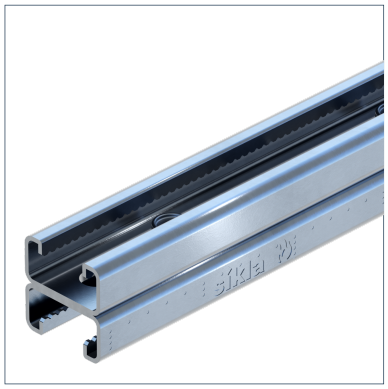
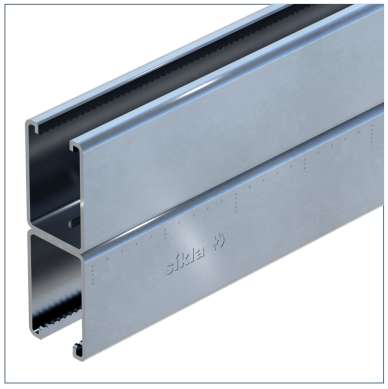
Channel MS 41 D









General Information

The Channel MS 41 D is a versatile element for technical building equipment and industrial plant construction. It is ideal for simple and professional manufacturing of crossbars, wall brackets and support frames. 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, offer maximum flexibility during installation. The MS 41 D is available in various designs, for example as a trapezoidal channel for higher loads.

Installation

All channels of the 41 series are serrated inside and provide numerous combination options with other stainless steel 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

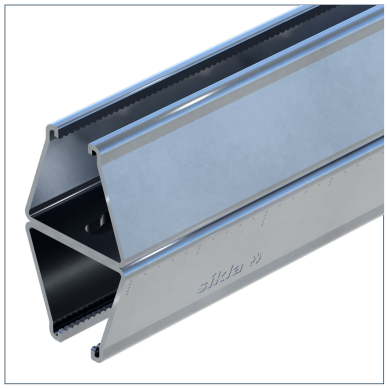
Material

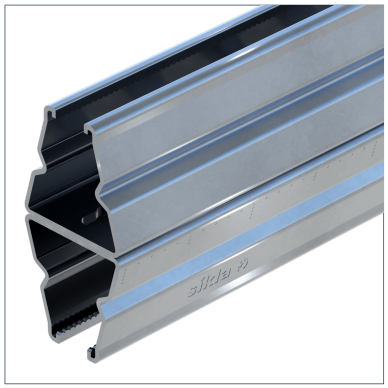
Primary element material	steel
Surface finish	pre-galavanised
Corrosion protection class	C2

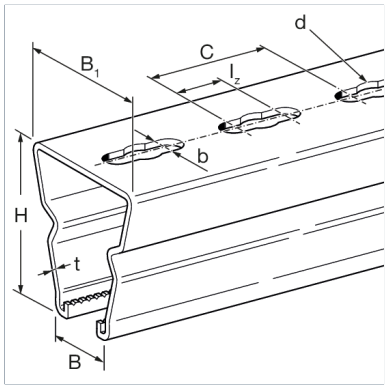
Forces

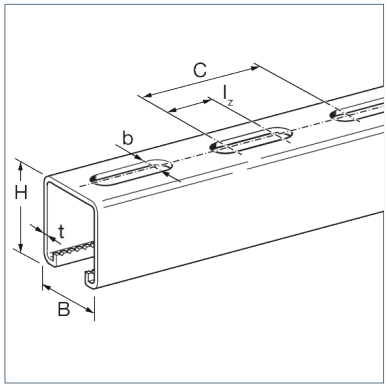
Type	V{Z,perm.}
MS 41/21/2,0 D 2M	4.00 kN
MS 41/21/2,0 D 6M	4.00 kN
MS 41/41/2,0 D 6M	4.00 kN
MS 41/41/2,5 D 2M	6.00 kN
MS 41/41/2,5 D 3M	6.00 kN
MS 41/41/2,5 D 6M	6.00 kN
MS 41/45/2,5 D 6M	6.00 kN
MS 41/52/2,5 D 6M	6.00 kN
MS 41/62/2,5 D 6M	6.00 kN
MS 41-75/65/3,0 D 6M	10.00 kN
MS 41-75/75/3,0 D 6M	10.00 kN

Channel MS 41 D







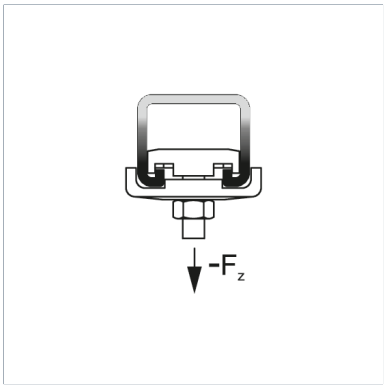


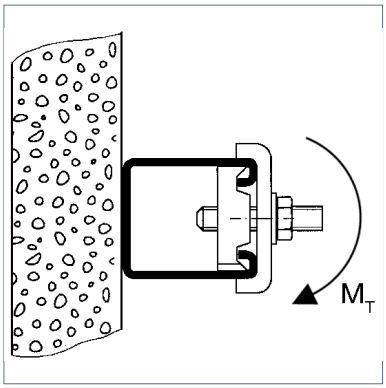
Moments

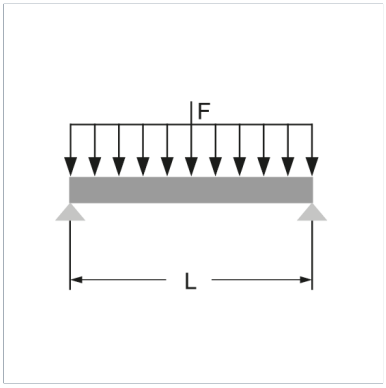
Type	M{X,perm.}
MS 41/21/2,0 D 2M	0.04 kNm
MS 41/21/2,0 D 6M	0.04 kNm
MS 41/41/2,0 D 6M	0.04 kNm
MS 41/41/2,5 D 2M	0.04 kNm
MS 41/41/2,5 D 3M	0.04 kNm
MS 41/41/2,5 D 6M	0.04 kNm
MS 41/45/2,5 D 6M	0.04 kNm
MS 41/52/2,5 D 6M	0.04 kNm
MS 41/62/2,5 D 6M	0.04 kNm
MS 41-75/65/3,0 D 6M	0.04 kNm
MS 41-75/75/3,0 D 6M	0.04 kNm

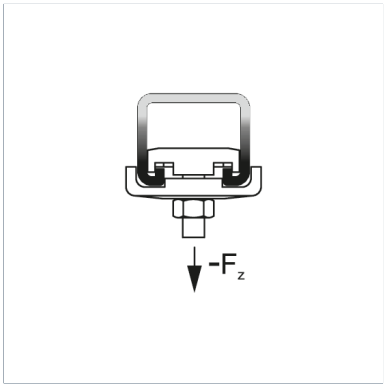
Cross-section values 1

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 D 2M	2.35 cm³	4.22 cm³	4.94 cm^4	8.65 cm^4	1.24 cm	1.64 cm
MS 41/21/2,0 D 6M	2.35 cm³	4.22 cm³	4.94 cm^4	8.65 cm^4	1.24 cm	1.64 cm
MS 41/41/2,0 D 6M	7.49 cm³	7.30 cm³	30.73 cm^4	14.97 cm^4	2.48 cm	1.73 cm
MS 41/41/2,5 D 2M	8.96 cm³	8.79 cm³	36.73 cm^4	18.03 cm^4	2.46 cm	1.72 cm
MS 41/41/2,5 D 3M	8.96 cm³	8.79 cm³	36.73 cm^4	18.03 cm^4	2.46 cm	1.72 cm
MS 41/41/2,5 D 6M	8.96 cm³	8.79 cm³	36.73 cm^4	18.03 cm^4	2.46 cm	1.72 cm
MS 41/45/2,5 D 6M	10.48 cm³	9.52 cm³	47.18 cm^4	19.51 cm^4	2.70 cm	1.73 cm
MS 41/52/2,5 D 6M	13.41 cm³	10.78 cm³	69.75 cm^4	22.11 cm^4	3.11 cm	1.75 cm
MS 41/62/2,5 D 6M	18.16 cm³	12.59 cm³	112.63 cm^4	25.82 cm^4	3.71 cm	1.77 cm
MS 41-75/65/3,0 D 6M	23.24 cm³	20.54 cm³	151.10 cm^4	77.02 cm^4	3.53 cm	2.52 cm
MS 41-75/75/3,0 D 6M	30.66 cm³	22.83 cm³	230.02 cm^4	85.60 cm^4	4.07 cm	2.48 cm









Cross-section values 2

Type	Torsional constant It	Cross-sectional area A
MS 41/21/2,0 D 2M	0.03 cm^4	3.20 cm²
MS 41/21/2,0 D 6M	0.03 cm^4	3.20 cm²
MS 41/41/2,0 D 6M	0.05 cm^4	4.96 cm²
MS 41/41/2,5 D 2M	0.10 cm^4	6.06 cm²
MS 41/41/2,5 D 3M	0.10 cm^4	6.06 cm²
MS 41/41/2,5 D 6M	0.10 cm^4	6.06 cm²
MS 41/45/2,5 D 6M	0.11 cm^4	6.46 cm²
MS 41/52/2,5 D 6M	0.12 cm^4	7.16 cm²
MS 41/62/2,5 D 6M	0.14 cm^4	8.16 cm²
MS 41-75/65/3,0 D 6M	0.31 cm^4	12.06 cm²
MS 41-75/75/3,0 D 6M	0.32 cm^4	13.84 cm²

Note on loadings

Note: All values refer to slotted channels.

Additional information

For further technical data, see the pages in the download area.

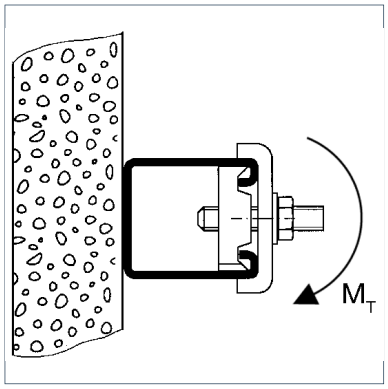
Types

Type	L	Weight	Quantity	Part number
MS 41/21/2,0 D 2M	2000 mm	2.646 kg/m	2 m	193808
MS 41/21/2,0 D 6M	6000 mm	2.646 kg/m	6 m	193815
MS 41/41/2,0 D 6M	6000 mm	3.67 kg/m	6 m	193822
MS 41/41/2,5 D 2M	2000 mm	4.6 kg/m	2 m	174080
MS 41/41/2,5 D 3M	3000 mm	4.34 kg/m	3 m	173441
MS 41/41/2,5 D 6M	6000 mm	4.7 kg/m	6 m	166757
MS 41/45/2,5 D 6M	6000 mm	5 kg/m	6 m	193839
MS 41/52/2,5 D 6M	6000 mm	5.34 kg/m	6 m	193846
MS 41/62/2,5 D 6M	6000 mm	6 kg/m	6 m	193853
MS 41-75/65/3,0 D 6M	6000 mm	9.34 kg/m	6 m	174152
MS 41-75/75/3,0 D 6M	6000 mm	10.34 kg/m	6 m	174161

Dimensions

Type	B	b	B1	C	H	Iz	t
MS 41/21/2,0 D 2M	41 mm	13 mm		62.5 mm	42 mm	27 mm	2 mm
MS 41/21/2,0 D 6M	41 mm	13 mm		62.5 mm	42 mm	27 mm	2 mm

Channel MS 41 D



Type	B	b	B1	C	H	Iz	t
MS 41/41/2,0 D 6M	41 mm	13 mm		62.5 mm	82 mm	27 mm	2 mm
MS 41/41/2,5 D 2M	41 mm	13 mm		62.5 mm	82 mm	27 mm	2.5 mm
MS 41/41/2,5 D 3M	41 mm	13 mm		62.5 mm	82 mm	27 mm	2.5 mm
MS 41/41/2,5 D 6M	41 mm	13 mm		62.5 mm	82 mm	27 mm	2.5 mm
MS 41/45/2,5 D 6M	41 mm	13 mm		62.5 mm	90 mm	27 mm	2.5 mm
MS 41/52/2,5 D 6M	41 mm	13 mm		62.5 mm	104 mm	27 mm	2.5 mm
MS 41/62/2,5 D 6M	41 mm	13 mm		62.5 mm	124 mm	27 mm	2.5 mm
MS 41-75/65/3,0 D 6M	41 mm	13 mm	65 mm	62.5 mm	130 mm	27 mm	3 mm
MS 41-75/75/3,0 D 6M	41 mm	13 mm	75 mm	62.5 mm	150 mm	27 mm	3 mm

Certification

Stahl

epd-global
Powered by EPD-Norway

Documents

Channel MS 41 Technical Data

Channel MS 41-75/65/3,0 - Centrical load

Channel MS - Centrical load overview

Channel MS - Two point load overview

Channel MS - Three point load overview

Channel MS - Distributed load overview

Channel MS - Slot pattern and measurements

Channel MS 41-75/75/3,0 - Centrical load

Channel MS 41/21/2,0 - Centrical load



Channel MS 41/41/2,0 - Centrical load



Channel MS 41/41/2,5 - Centrical load



Channel MS 41/45/2,5 - Centrical load



Channel MS 41/52/2,5 - Centrical load



Channel MS 41/62/2,5 - Centrical load