Channel MS 41









General Information

Element for easily and efficiently pre-assembling crossbars, wall brackets and supporting structures on construction sites or in workshops.

Installation

If required, channels can be joined on site using:

Slot pattern II: Hexagon socket bolt M8 x 16, with a max. spacing of 250 mm between connecting points one point at each end.

Slot pattern III and IV: Clamping Unit KL (for details see product.

All Channels MS 41 are serrated on the inner edges and thus can be combined with many other Sikla products, e.g. Channel Nut, End Support WBD, Beam Clamp TCS 1. Particularly effective combinations are possible using other Pressix components. All types can be used as guide and support channels by inserting Slide Block 41 inside the channel.

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

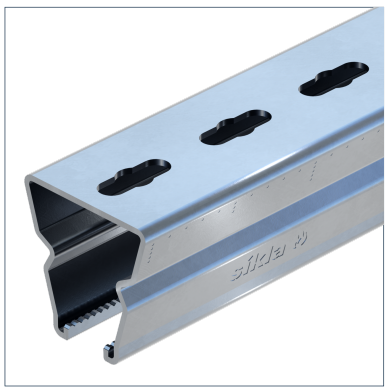
Forces

Type	V{Z,perm.}
MS 41/21/1,5 2M	2.00 kN
MS 41/21/1,5 6M	2.00 kN
MS 41/21/2,0 2M	4.00 kN
MS 41/21/2,0 3M	4.00 kN
MS 41/41/2,5 3M	6.00 kN
MS 41/21/2,0 6M	4.00 kN
MS 41/31/2,0 2M	4.00 kN
MS 41/31/2,0 6M	4.00 kN





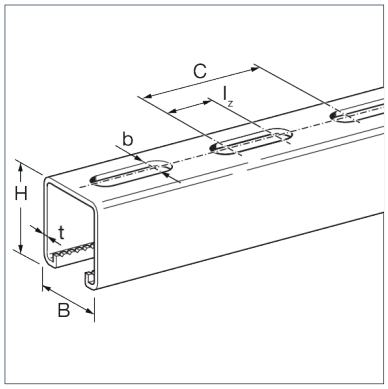


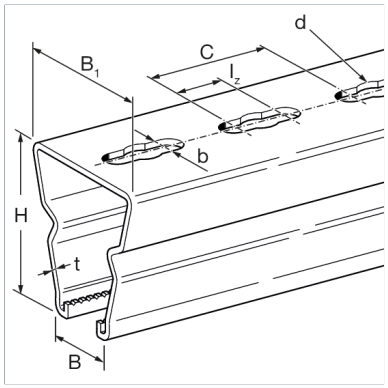


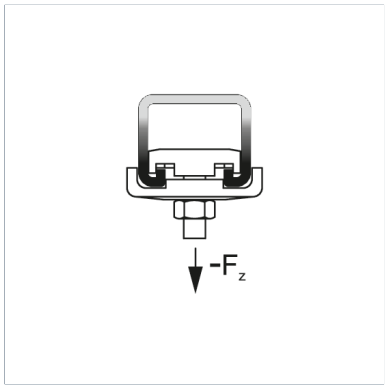
Type	V{Z,perm.}
MS 41/41/1,5 2M	2.00 kN
MS 41/41/1,5 3M	2.00 kN
MS 41/41/1,5 6M	2.00 kN
MS 41/41/2,0 2M	4.00 kN
MS 41/41/2,0 3M	4.00 kN
MS 41/41/2,0 6M	4.00 kN
MS 41/41/2,5 2M	6.00 kN
MS 41/41/2,5 6M	6.00 kN
MS 41/45/2,5 2M	6.00 kN
MS 41/45/2,5 6M	6.00 kN
MS 41/52/2,5 2M	6.00 kN
MS 41/52/2,5 6M	6.00 kN
MS 41/62/2,5 6M	6.00 kN
MS 41-75/65/3,0 6M	10.00 kN
MS 41-75/75/3,0 6M	10.00 kN

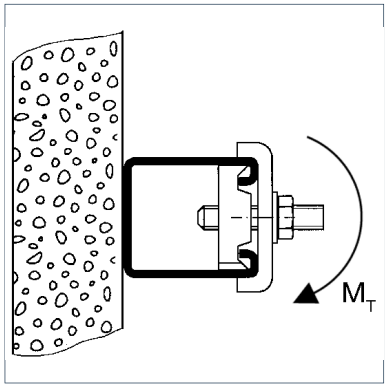
Moments

Type	M{X,perm.}
MS 41/21/1,5 2M	0.04 kNm
MS 41/21/1,5 6M	0.04 kNm
MS 41/21/2,0 2M	0.04 kNm
MS 41/21/2,0 3M	0.04 kNm
MS 41/41/2,5 3M	0.04 kNm
MS 41/21/2,0 6M	0.04 kNm
MS 41/31/2,0 2M	0.04 kNm
MS 41/31/2,0 6M	0.04 kNm
MS 41/41/1,5 2M	0.04 kNm
MS 41/41/1,5 3M	0.04 kNm
MS 41/41/1,5 6M	0.04 kNm
MS 41/41/2,0 2M	0.04 kNm
MS 41/41/2,0 3M	0.04 kNm
MS 41/41/2,0 6M	0.04 kNm
MS 41/41/2,5 2M	0.04 kNm
MS 41/41/2,5 6M	0.04 kNm
MS 41/45/2,5 2M	0.04 kNm





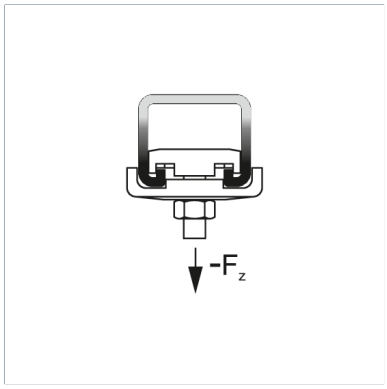


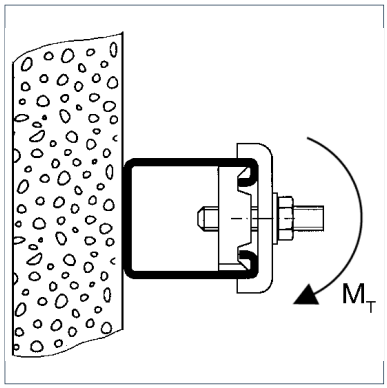


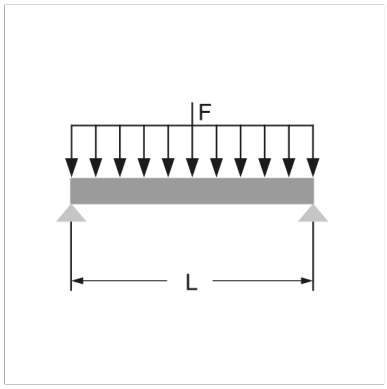
Type	M{X,perm.}
MS 41/45/2,5 6M	0.04 kNm
MS 41/52/2,5 2M	0.04 kNm
MS 41/52/2,5 6M	0.04 kNm
MS 41/62/2,5 6M	0.04 kNm
MS 41-75/65/3,0 6M	0.04 kNm
MS 41-75/75/3,0 6M	0.04 kNm

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 41/21/1,5 2M	0.70 cm³	1.71 cm³	0.78 cm^4	3.50 cm^4	0.78 cm	1.65 cm
MS 41/21/1,5 6M	0.70 cm³	1.71 cm³	0.78 cm^4	3.50 cm^4	0.78 cm	1.65 cm
MS 41/21/2,0 2M	0.82 cm³	2.11 cm³	0.92 cm^4	4.32 cm^4	0.75 cm	1.64 cm
MS 41/21/2,0 3M	0.82 cm³	2.11 cm³	0.92 cm^4	4.32 cm^4	0.75 cm	1.64 cm
MS 41/41/2,5 3M	2.94 cm³	4.39 cm³	6.17 cm^4	9.01 cm^4	1.42 cm	1.72 cm
MS 41/21/2,0 6M	0.82 cm³	2.11 cm³	0.92 cm^4	4.32 cm^4	0.75 cm	1.64 cm
MS 41/31/2,0 2M	1.61 cm³	2.90 cm³	2.55 cm^4	5.96 cm^4	1.10 cm	1.69 cm
MS 41/31/2,0 6M	1.61 cm³	2.90 cm³	2.55 cm^4	5.96 cm^4	1.10 cm	1.69 cm
MS 41/41/1,5 2M	1.94 cm³	2.85 cm³	4.11 cm^4	5.84 cm^4	1.48 cm	1.77 cm
MS 41/41/1,5 3M	1.94 cm³	2.85 cm³	4.11 cm^4	5.84 cm^4	1.48 cm	1.77 cm
MS 41/41/1,5 6M	1.94 cm³	2.85 cm³	4.11 cm^4	5.84 cm^4	1.48 cm	1.77 cm
MS 41/41/2,0 2M	2.50 cm³	3.65 cm³	5.21 cm^4	7.48 cm^4	1.44 cm	1.73 cm
MS 41/41/2,0 3M	2.50 cm³	3.65 cm³	5.21 cm^4	7.48 cm^4	1.44 cm	1.73 cm
MS 41/41/2,0 6M	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 2M	2.94 cm³	4.39 cm³	6.17 cm^4	9.01 cm^4	1.42 cm	1.72 cm
MS 41/41/2,5 6M	2.94 cm³	4.39 cm³	6.17 cm^4	9.01 cm^4	1.42 cm	1.72 cm







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 41/45/2,5 2M	3.42 cm³	4.76 cm³	7.85 cm^4	9.75 cm^4	1.55 cm	1.73 cm
MS 41/45/2,5 6M	3.42 cm³	4.76 cm³	7.85 cm^4	9.75 cm^4	1.55 cm	1.73 cm
MS 41/52/2,5 2M	4.32 cm³	5.39 cm³	11.43 cm^4	11.05 cm^4	1.78 cm	1.75 cm
MS 41/52/2,5 6M	4.32 cm³	5.39 cm³	11.43 cm^4	11.05 cm^4	1.78 cm	1.75 cm
MS 41/62/2,5 6M	5.75 cm³	6.29 cm³	18.08 cm^4	12.91 cm^4	2.10 cm	1.77 cm
MS 41-75/65/3,0 6M	8.13 cm³	10.27 cm³	30.67 cm^4	38.51 cm^4	2.25 cm	2.52 cm
MS 41-75/75/3,0 6M	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 41/21/1,5 2M	0.01 cm^4	1.27 cm²
MS 41/21/1,5 6M	0.01 cm^4	1.27 cm²
MS 41/21/2,0 2M	0.01 cm^4	1.60 cm²
MS 41/21/2,0 3M	0.01 cm^4	1.60 cm²
MS 41/41/2,5 3M	0.05 cm^4	3.03 cm²
MS 41/21/2,0 6M	0.01 cm^4	1.60 cm²
MS 41/31/2,0 2M	0.02 cm^4	2.08 cm²
MS 41/31/2,0 6M	0.02 cm^4	2.08 cm²
MS 41/41/1,5 2M	0.01 cm^4	1.87 cm²
MS 41/41/1,5 3M	0.01 cm^4	1.87 cm²
MS 41/41/1,5 6M	0.01 cm^4	1.87 cm²
MS 41/41/2,0 2M	0.03 cm^4	2.48 cm²
MS 41/41/2,0 3M	0.03 cm^4	2.48 cm²
MS 41/41/2,0 6M	0.03 cm^4	2.48 cm²
MS 41/41/2,5 2M	0.05 cm^4	3.03 cm²
MS 41/41/2,5 6M	0.05 cm^4	3.03 cm²
MS 41/45/2,5 2M	0.05 cm^4	3.23 cm²
MS 41/45/2,5 6M	0.05 cm^4	3.23 cm²
MS 41/52/2,5 2M	0.06 cm^4	3.58 cm²

Type	Torsional constant It	Cross-sectional area A
MS 41/52/2,5 6M	0.06 cm^4	3.58 cm²
MS 41/62/2,5 6M	0.07 cm^4	4.08 cm²
MS 41-75/65/3,0 6M	0.15 cm^4	6.03 cm²
MS 41-75/75/3,0 6M	0.16 cm^4	6.92 cm²

Note on loadings

Note: All values refer to slotted channels.

Additional information

For further technical data, please refer to the pages in the download area.

Types

Type	L	Weight	Quantity	Part number
MS 41/21/1,5 2M	2000 mm	1.000 kg/m	2 m	173837
MS 41/21/1,5 6M	6000 mm	1.000 kg/m	6 m	173846
MS 41/21/2,0 2M	2000 mm	1.434 kg/m	2 m	193686
MS 41/21/2,0 3M	3000 mm	1.434 kg/m	3 m	193693
MS 41/41/2,5 3M	3000 mm	2.577 kg/m	3 m	173432
MS 41/21/2,0 6M	6000 mm	1.434 kg/m	6 m	193709
MS 41/31/2,0 2M	2000 mm	1.630 kg/m	2 m	198872
MS 41/31/2,0 6M	6000 mm	1.630 kg/m	6 m	198889
MS 41/41/1,5 2M	2000 mm	1.450 kg/m	2 m	116796
MS 41/41/1,5 3M	3000 mm	1.450 kg/m	3 m	116797
MS 41/41/1,5 6M	6000 mm	1.450 kg/m	6 m	195703
MS 41/41/2,0 2M	2000 mm	2.118 kg/m	2 m	193723
MS 41/41/2,0 3M	3000 mm	2.118 kg/m	3 m	193730
MS 41/41/2,0 6M	6000 mm	2.118 kg/m	6 m	193747
MS 41/41/2,5 2M	2000 mm	2.340 kg/m	2 m	173909
MS 41/41/2,5 6M	6000 mm	2.340 kg/m	6 m	166720
MS 41/45/2,5 2M	2000 mm	2.490 kg/m	2 m	193754
MS 41/45/2,5 6M	6000 mm	2.490 kg/m	6 m	193761
MS 41/52/2,5 2M	2000 mm	2.750 kg/m	2 m	193778
MS 41/52/2,5 6M	6000 mm	2.750 kg/m	6 m	193785
MS 41/62/2,5 6M	6000 mm	3.360 kg/m	6 m	193792
MS 41-75/65/3,0 6M	6000 mm	5.000 kg/m	6 m	173990
MS 41-75/75/3,0 6M	6000 mm	5.340 kg/m	6 m	173999

Dimensions

Type	b	B	B1	C	H	d	Iz	t
MS 41/21/1,5 2M	12.5 mm	41 mm		62.5 mm	21 mm	8.5 mm	24 mm	1.5 mm
MS 41/21/1,5 6M	12.5 mm	41 mm		62.5 mm	21 mm	8.5 mm	24 mm	1.5 mm
MS 41/21/2,0 2M	13 mm	41 mm		62.5 mm	21 mm		27 mm	2 mm
MS 41/21/2,0 3M	13 mm	41 mm		62.5 mm	21 mm		27 mm	2 mm
MS 41/41/2,5 3M	13 mm	41 mm		62.5 mm	41 mm		27 mm	2.5 mm
MS 41/21/2,0 6M	13 mm	41 mm		62.5 mm	21 mm		27 mm	2 mm
MS 41/31/2,0 2M	13 mm	41 mm		62.5 mm	31 mm		27 mm	2 mm
MS 41/31/2,0 6M	13 mm	41 mm		62.5 mm	31 mm		27 mm	2 mm
MS 41/41/1,5 2M	12.5 mm	41 mm		62.5 mm	41 mm	8.5 mm	24 mm	1.5 mm
MS 41/41/1,5 3M	12.5 mm	41 mm		62.5 mm	41 mm	8.5 mm	24 mm	1.5 mm
MS 41/41/1,5 6M	12.5 mm	41 mm		62.5 mm	41 mm	8.5 mm	24 mm	1.5 mm
MS 41/41/2,0 2M	13 mm	41 mm		62.5 mm	41 mm		27 mm	2 mm
MS 41/41/2,0 3M	13 mm	41 mm		62.5 mm	41 mm		27 mm	2 mm
MS 41/41/2,0 6M	13 mm	41 mm		62.5 mm	41 mm		27 mm	2 mm
MS 41/41/2,5 2M	13 mm	41 mm		62.5 mm	41 mm		27 mm	2.5 mm
MS 41/41/2,5 6M	13 mm	41 mm		62.5 mm	41 mm		27 mm	2.5 mm
MS 41/45/2,5 2M	13 mm	41 mm		62.5 mm	45 mm		27 mm	2.5 mm
MS 41/45/2,5 6M	13 mm	41 mm		62.5 mm	45 mm		27 mm	2.5 mm
MS 41/52/2,5 2M	13 mm	41 mm		62.5 mm	52 mm		27 mm	2.5 mm
MS 41/52/2,5 6M	13 mm	41 mm		62.5 mm	52 mm		27 mm	2.5 mm
MS 41/62/2,5 6M	13 mm	41 mm		62.5 mm	62 mm		27 mm	2.5 mm
MS 41-75/65/3,0 6M	13 mm	41 mm	65 mm	62.5 mm	65 mm	17 mm	27 mm	3 mm
MS 41-75/75/3,0 6M	13 mm	41 mm	75 mm	62.5 mm	75 mm	17 mm	27 mm	3 mm

Certification

This product has been awarded the RAL quality mark "Pipe Supports" and is subject to continuous external monitoring according to RAL GZ-655.

The types 41/41/1.5 do not have the RAL quality label.

Documents

Channel MS 41 – RAL-GZ 655

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 41/21/1,5 - Centrical load

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

Channel MS 41/31/2,0 - 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