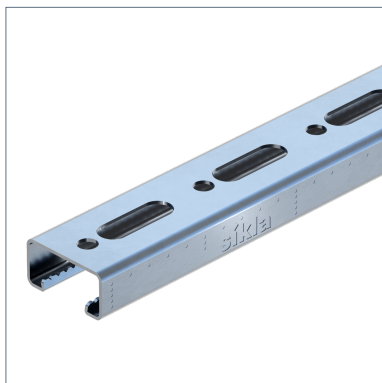
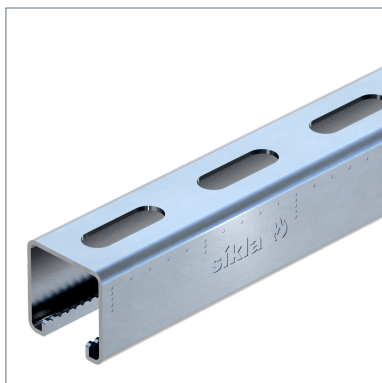




General Information

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/mm ²
Permissible stress $\sigma_{perm.}$	185,00 N/mm ²

Material Properties

Halogen-free	0
UV-resistant	0

Material

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

Forces

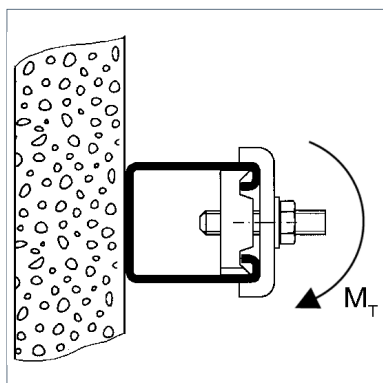
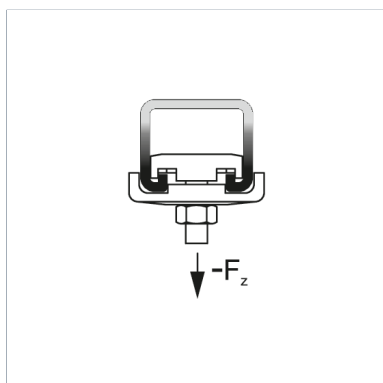
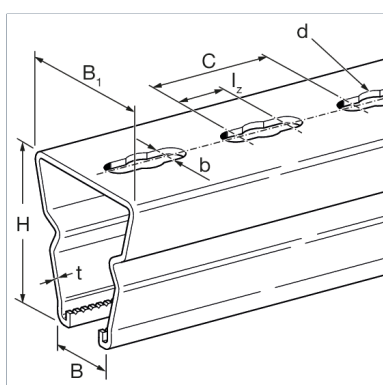
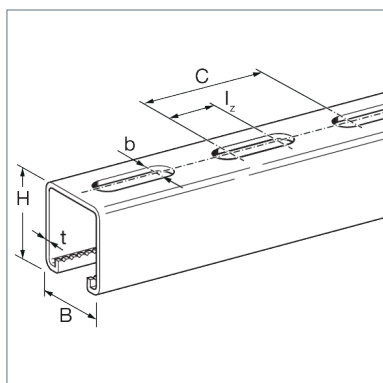
Type	$V_{Z,perm.}$
MS 41/21/1,5 2M	2,00 kN
MS 41/21/1,5 6M	2,00 kN
MS 41/21/2,0 2M	4,00 kN
MS 41/21/2,0 3M	4,00 kN
MS 41/41/2,5 3M	6,00 kN
MS 41/21/2,0 6M	4,00 kN
MS 41/31/2,0 2M	4,00 kN
MS 41/31/2,0 6M	4,00 kN



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

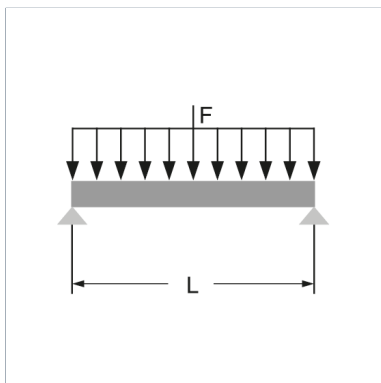
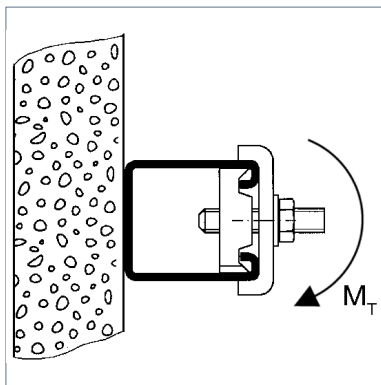
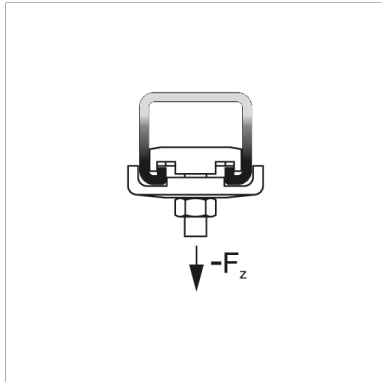
Type	M{X,perm.}
MS 41/21/1,5 2M	0,04 kNm
MS 41/21/1,5 6M	0,04 kNm
MS 41/21/2,0 2M	0,04 kNm
MS 41/21/2,0 3M	0,04 kNm
MS 41/41/2,5 3M	0,04 kNm
MS 41/21/2,0 6M	0,04 kNm
MS 41/31/2,0 2M	0,04 kNm
MS 41/31/2,0 6M	0,04 kNm
MS 41/41/1,5 2M	0,04 kNm
MS 41/41/1,5 3M	0,04 kNm
MS 41/41/1,5 6M	0,04 kNm
MS 41/41/2,0 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 cm ³	1,71 cm ³	0,78 cm ⁴	3,50 cm ⁴	0,78 cm	1,65 cm
MS 41/21/1,5 6M	0,70 cm ³	1,71 cm ³	0,78 cm ⁴	3,50 cm ⁴	0,78 cm	1,65 cm
MS 41/21/2,0 2M	0,82 cm ³	2,11 cm ³	0,92 cm ⁴	4,32 cm ⁴	0,75 cm	1,64 cm
MS 41/21/2,0 3M	0,82 cm ³	2,11 cm ³	0,92 cm ⁴	4,32 cm ⁴	0,75 cm	1,64 cm
MS 41/41/2,5 3M	2,94 cm ³	4,39 cm ³	6,17 cm ⁴	9,01 cm ⁴	1,42 cm	1,72 cm
MS 41/21/2,0 6M	0,82 cm ³	2,11 cm ³	0,92 cm ⁴	4,32 cm ⁴	0,75 cm	1,64 cm
MS 41/31/2,0 2M	1,61 cm ³	2,90 cm ³	2,55 cm ⁴	5,96 cm ⁴	1,10 cm	1,69 cm
MS 41/31/2,0 6M	1,61 cm ³	2,90 cm ³	2,55 cm ⁴	5,96 cm ⁴	1,10 cm	1,69 cm
MS 41/41/1,5 2M	1,94 cm ³	2,85 cm ³	4,11 cm ⁴	5,84 cm ⁴	1,48 cm	1,77 cm
MS 41/41/1,5 3M	1,94 cm ³	2,85 cm ³	4,11 cm ⁴	5,84 cm ⁴	1,48 cm	1,77 cm
MS 41/41/1,5 6M	1,94 cm ³	2,85 cm ³	4,11 cm ⁴	5,84 cm ⁴	1,48 cm	1,77 cm
MS 41/41/2,0 2M	2,50 cm ³	3,65 cm ³	5,21 cm ⁴	7,48 cm ⁴	1,44 cm	1,73 cm
MS 41/41/2,0 3M	2,50 cm ³	3,65 cm ³	5,21 cm ⁴	7,48 cm ⁴	1,44 cm	1,73 cm
MS 41/41/2,0 6M	2,50 cm ³	3,65 cm ³	5,21 cm ⁴	7,48 cm ⁴	1,44 cm	1,73 cm
MS 41/41/2,5 2M	2,94 cm ³	4,39 cm ³	6,17 cm ⁴	9,01 cm ⁴	1,42 cm	1,72 cm
MS 41/41/2,5 6M	2,94 cm ³	4,39 cm ³	6,17 cm ⁴	9,01 cm ⁴	1,42 cm	1,72 cm



Type	Elastic modulus W_y	Elastic modulus W_z	Second moment of area I_y	Second moment of area I_z	Radius of gyration i_y	Radius of gyration i_z
MS 41/45/2,5 2M	3,42 cm ³	4,76 cm ³	7,85 cm ⁴	9,75 cm ⁴	1,55 cm	1,73 cm
MS 41/45/2,5 6M	3,42 cm ³	4,76 cm ³	7,85 cm ⁴	9,75 cm ⁴	1,55 cm	1,73 cm
MS 41/52/2,5 2M	4,32 cm ³	5,39 cm ³	11,43 cm ⁴	11,05 cm ⁴	1,78 cm	1,75 cm
MS 41/52/2,5 6M	4,32 cm ³	5,39 cm ³	11,43 cm ⁴	11,05 cm ⁴	1,78 cm	1,75 cm
MS 41/62/2,5 6M	5,75 cm ³	6,29 cm ³	18,08 cm ⁴	12,91 cm ⁴	2,10 cm	1,77 cm
MS 41-75/65/3,0 6M	8,13 cm ³	10,27 cm ³	30,67 cm ⁴	38,51 cm ⁴	2,25 cm	2,52 cm
MS 41-75/75/3,0 6M	10,29 cm ³	11,41 cm ³	44,30 cm ⁴	42,80 cm ⁴	2,53 cm	2,48 cm

Cross-section values 2

Type	Torsional constant I_t	Cross-sectional area A
MS 41/21/1,5 2M	0,01 cm ⁴	1,27 cm ²
MS 41/21/1,5 6M	0,01 cm ⁴	1,27 cm ²
MS 41/21/2,0 2M	0,01 cm ⁴	1,60 cm ²
MS 41/21/2,0 3M	0,01 cm ⁴	1,60 cm ²
MS 41/41/2,5 3M	0,05 cm ⁴	3,03 cm ²
MS 41/21/2,0 6M	0,01 cm ⁴	1,60 cm ²
MS 41/31/2,0 2M	0,02 cm ⁴	2,08 cm ²
MS 41/31/2,0 6M	0,02 cm ⁴	2,08 cm ²
MS 41/41/1,5 2M	0,01 cm ⁴	1,87 cm ²
MS 41/41/1,5 3M	0,01 cm ⁴	1,87 cm ²
MS 41/41/1,5 6M	0,01 cm ⁴	1,87 cm ²
MS 41/41/2,0 2M	0,03 cm ⁴	2,48 cm ²
MS 41/41/2,0 3M	0,03 cm ⁴	2,48 cm ²
MS 41/41/2,0 6M	0,03 cm ⁴	2,48 cm ²
MS 41/41/2,5 2M	0,05 cm ⁴	3,03 cm ²
MS 41/41/2,5 6M	0,05 cm ⁴	3,03 cm ²
MS 41/45/2,5 2M	0,05 cm ⁴	3,23 cm ²
MS 41/45/2,5 6M	0,05 cm ⁴	3,23 cm ²
MS 41/52/2,5 2M	0,06 cm ⁴	3,58 cm ²

Type	Torsional constant It	Cross-sectional area A
MS 41/52/2,5 6M	0,06 cm ⁴	3,58 cm ²
MS 41/62/2,5 6M	0,07 cm ⁴	4,08 cm ²
MS 41-75/65/3,0 6M	0,15 cm ⁴	6,03 cm ²
MS 41-75/75/3,0 6M	0,16 cm ⁴	6,92 cm ²

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	2.000 mm	1 kg/m	2 m	173837
MS 41/21/1,5 6M	6.000 mm	1 kg/m	6 m	173846
MS 41/21/2,0 2M	2.000 mm	1,434 kg/m	2 m	193686
MS 41/21/2,0 3M	3.000 mm	1,434 kg/m	3 m	193693
MS 41/41/2,5 3M	3.000 mm	2,577 kg/m	3 m	173432
MS 41/21/2,0 6M	6.000 mm	1,417 kg/m	6 m	193709
MS 41/31/2,0 2M	2.000 mm	1,63 kg/m	2 m	198872
MS 41/31/2,0 6M	6.000 mm	1,63 kg/m	6 m	198889
MS 41/41/1,5 2M	2.000 mm	1,45 kg/m	2 m	116796
MS 41/41/1,5 3M	3.000 mm	1,45 kg/m	3 m	116797
MS 41/41/1,5 6M	6.000 mm	1,45 kg/m	6 m	195703
MS 41/41/2,0 2M	2.000 mm	2,118 kg/m	2 m	193723
MS 41/41/2,0 3M	3.000 mm	2,118 kg/m	3 m	193730
MS 41/41/2,0 6M	6.000 mm	2,118 kg/m	6 m	193747
MS 41/41/2,5 2M	2.000 mm	2,577 kg/m	2 m	173909
MS 41/41/2,5 6M	6.000 mm	2,577 kg/m	6 m	166720
MS 41/45/2,5 2M	2.000 mm	2,49 kg/m	2 m	193754
MS 41/45/2,5 6M	6.000 mm	2,49 kg/m	6 m	193761
MS 41/52/2,5 2M	2.000 mm	2,75 kg/m	2 m	193778
MS 41/52/2,5 6M	6.000 mm	2,75 kg/m	6 m	193785
MS 41/62/2,5 6M	6.000 mm	3,36 kg/m	6 m	193792
MS 41-75/65/3,0 6M	6.000 mm	5 kg/m	6 m	173990
MS 41-75/75/3,0 6M	6.000 mm	5,34 kg/m	6 m	173999

Dimensions

Type	b	B	B1	C	H	d	lz	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 41/41/2,5 - Central load



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



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



Channel MS 41/21/1,5 - Central load



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



Channel MS 41/31/2,0 - Central load



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



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



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



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