

Permissible load for channels with distributed load /
Zulässige Lastwerte für Montageschiene bei Streckenlast

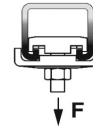
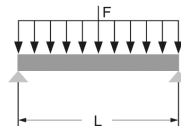


| Type L [cm] | 27/15/1,25 | 27/25/1,25 | 27/37/1,25 | 41/21/1,5 | 41/21/2,0 | 41/31/2,0 | 41/41/2,0 | 41/41/2,5 | 41/45/2,5 | 41/52/2,5 | 41/62/2,5 | 41-75/65/3,0 | 41-75/5/3,0 | 41/21/2,0 D γγ | 41/41/2,0 D γγ | 41/41/2,5 D γγ | 41/45/2,5 D γγ | 41/52/2,5 D γγ | 41/62/2,5 D γγ | 41-75/65/3,0 D γγ | 41-75/5/3,0 D γγ |
|----------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|---------------------|
| | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] | [kN/m] |
| 20 | 9.47 | 21.00 | 39.09 | 22.05 | 30.49 | 59.70 | 92.80 | 109.00 | 126.70 | 160.11 | 213.14 | 300.89 | 380.95 | 77.92 | 277.41 | 331.60 | 388.08 | 496.46 | 672.34 | 860.32 | 1135.07 |
| 40 | 2.36 | 5.25 | 9.77 | 5.50 | 7.61 | 14.91 | 23.19 | 27.23 | 31.66 | 40.01 | 53.26 | 75.19 | 95.20 | 19.46 | 69.33 | 82.86 | 96.98 | 124.08 | 168.04 | 215.01 | 283.69 |
| 60 | 0.74 | 2.33 | 4.34 | 2.44 | 3.38 | 6.62 | 10.29 | 12.09 | 14.06 | 17.77 | 23.66 | 33.39 | 42.28 | 8.64 | 30.79 | 36.80 | 43.08 | 55.12 | 74.65 | 95.51 | 126.03 |
| 80 | 0.31 | 1.14 | 2.43 | 1.23 | 1.44 | 3.72 | 5.78 | 6.79 | 7.90 | 9.98 | 13.29 | 18.76 | 23.76 | 4.85 | 17.30 | 20.68 | 24.21 | 30.98 | 41.97 | 53.68 | 70.85 |
| 100 | 0.16 | 0.58 | 1.56 | 0.63 | 0.73 | 2.05 | 3.69 | 4.34 | 5.04 | 6.38 | 8.50 | 11.99 | 15.19 | 3.09 | 11.06 | 13.22 | 15.48 | 19.81 | 26.84 | 34.32 | 45.31 |
| 120 | 0.09 | 0.33 | 0.92 | 0.36 | 0.42 | 1.18 | 2.42 | 2.86 | 3.50 | 4.42 | 5.89 | 8.31 | 10.53 | 2.14 | 7.67 | 9.17 | 10.73 | 13.74 | 18.62 | 23.81 | 31.43 |
| 140 | 0.05 | 0.21 | 0.57 | 0.22 | 0.26 | 0.74 | 1.51 | 1.79 | 2.29 | 3.24 | 4.32 | 6.09 | 7.72 | 1.43 | 5.63 | 6.72 | 7.87 | 10.08 | 13.66 | 17.47 | 23.07 |
| 160 | 0.03 | 0.14 | 0.38 | 0.15 | 0.17 | 0.49 | 1.01 | 1.19 | 1.52 | 2.23 | 3.30 | 4.65 | 5.90 | 0.95 | 4.30 | 5.14 | 6.02 | 7.71 | 10.45 | 13.35 | 17.64 |
| 180 | 0.02 | 0.09 | 0.27 | 0.10 | 0.11 | 0.34 | 0.70 | 0.83 | 1.06 | 1.56 | 2.48 | 3.67 | 4.65 | 0.66 | 3.39 | 4.05 | 4.74 | 6.08 | 8.24 | 10.53 | 13.91 |
| 200 | 0.01 | 0.07 | 0.19 | 0.07 | 0.08 | 0.24 | 0.51 | 0.60 | 0.77 | 1.13 | 1.80 | 2.96 | 3.76 | 0.48 | 2.74 | 3.27 | 3.83 | 4.91 | 6.67 | 8.51 | 11.25 |
| 220 | 0.01 | 0.05 | 0.14 | 0.05 | 0.06 | 0.18 | 0.38 | 0.44 | 0.57 | 0.84 | 1.34 | 2.28 | 3.10 | 0.35 | 2.26 | 2.69 | 3.16 | 4.05 | 5.50 | 7.02 | 9.28 |
| 240 | 0.01 | 0.03 | 0.11 | 0.04 | 0.04 | 0.13 | 0.28 | 0.34 | 0.43 | 0.64 | 1.03 | 1.74 | 2.54 | 0.27 | 1.76 | 2.10 | 2.65 | 3.40 | 4.61 | 5.88 | 7.78 |
| 260 | | 0.03 | 0.08 | 0.03 | 0.03 | 0.10 | 0.22 | 0.26 | 0.34 | 0.50 | 0.80 | 1.36 | 1.98 | 0.20 | 1.38 | 1.64 | 2.12 | 2.89 | 3.92 | 5.00 | 6.62 |
| 280 | | 0.02 | 0.06 | 0.02 | 0.02 | 0.08 | 0.17 | 0.20 | 0.26 | 0.39 | 0.64 | 1.08 | 1.58 | 0.16 | 1.09 | 1.31 | 1.69 | 2.48 | 3.37 | 4.30 | 5.69 |
| 300 | | 0.01 | 0.05 | 0.01 | 0.01 | 0.06 | 0.14 | 0.16 | 0.21 | 0.32 | 0.51 | 0.87 | 1.27 | 0.12 | 0.88 | 1.05 | 1.36 | 2.03 | 2.93 | 3.73 | 4.94 |
| 320 | | 0.01 | 0.04 | 0.01 | 0.01 | 0.05 | 0.11 | 0.13 | 0.17 | 0.25 | 0.42 | 0.71 | 1.04 | 0.10 | 0.72 | 0.86 | 1.11 | 1.67 | 2.57 | 3.27 | 4.33 |
| 340 | | 0.01 | 0.03 | 0.01 | 0.01 | 0.04 | 0.09 | 0.10 | 0.14 | 0.21 | 0.34 | 0.58 | 0.86 | 0.08 | 0.60 | 0.71 | 0.92 | 1.38 | 2.26 | 2.89 | 3.83 |
| 360 | | | 0.03 | | | 0.03 | 0.07 | 0.08 | 0.11 | 0.17 | 0.28 | 0.48 | 0.71 | 0.06 | 0.50 | 0.59 | 0.77 | 1.16 | 1.89 | 2.52 | 3.40 |
| 380 | | | 0.02 | | | 0.02 | 0.06 | 0.07 | 0.09 | 0.14 | 0.24 | 0.40 | 0.60 | 0.05 | 0.42 | 0.49 | 0.65 | 0.97 | 1.60 | 2.13 | 3.04 |
| 400 | | | 0.02 | | | 0.02 | 0.05 | 0.05 | 0.07 | 0.12 | 0.20 | 0.34 | 0.51 | 0.04 | 0.35 | 0.42 | 0.55 | 0.83 | 1.36 | 1.82 | 2.74 |
| 420 | | | 0.01 | | | 0.01 | 0.04 | 0.04 | 0.06 | 0.10 | 0.17 | 0.29 | 0.43 | 0.03 | 0.30 | 0.35 | 0.47 | 0.71 | 1.17 | 1.56 | 2.41 |
| 440 | | | 0.01 | | | 0.01 | 0.03 | 0.04 | 0.05 | 0.08 | 0.14 | 0.24 | 0.37 | 0.02 | 0.26 | 0.30 | 0.40 | 0.61 | 1.01 | 1.34 | 2.08 |
| 460 | | | 0.01 | | | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.12 | 0.21 | 0.32 | 0.02 | 0.22 | 0.26 | 0.34 | 0.53 | 0.88 | 1.16 | 1.81 |
| 480 | | | 0.01 | | | 0.01 | 0.02 | 0.02 | 0.03 | 0.06 | 0.10 | 0.17 | 0.27 | 0.01 | 0.19 | 0.22 | 0.30 | 0.46 | 0.76 | 1.01 | 1.58 |
| 500 | | | | | | | 0.01 | 0.02 | 0.03 | 0.05 | 0.09 | 0.15 | 0.23 | 0.01 | 0.16 | 0.19 | 0.26 | 0.40 | 0.67 | 0.88 | 1.38 |
| 520 | | | | | | | 0.01 | 0.01 | 0.02 | 0.04 | 0.07 | 0.13 | 0.20 | 0.01 | 0.14 | 0.16 | 0.22 | 0.35 | 0.59 | 0.78 | 1.22 |
| 540 | | | | | | | 0.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.11 | 0.17 | | 0.12 | 0.14 | 0.19 | 0.31 | 0.52 | 0.68 | 1.08 |
| 560 | | | | | | | 0.01 | 0.01 | 0.03 | 0.05 | 0.09 | 0.15 | | | 0.11 | 0.12 | 0.17 | 0.27 | 0.46 | 0.60 | 0.96 |
| 580 | | | | | | | | 0.01 | 0.02 | 0.04 | 0.08 | 0.13 | | | 0.09 | 0.11 | 0.15 | 0.24 | 0.41 | 0.53 | 0.85 |
| 600 | | | | | | | | 0.02 | 0.04 | 0.07 | 0.11 | | | | 0.08 | 0.09 | 0.13 | 0.21 | 0.36 | 0.47 | 0.76 |

$\sigma_{perm} / \sigma_{zul}$: 185 N/mm²; $f \leq L/200$

The influence of the channel slots and the channel's dead weight are taken into account in the values.
Calculations according RAL-GZ 655-C.

Berechnungen gemäß RAL-GZ 655-C und unter Einbezug der Eigenlasten



*) Double channels with max. length up to 0,5 m should be connected at both ends, if bearing and point of load incidence are not on the same side.
Bei Doppelschienen sind Kurzstücke bis 0,5 m an beiden Enden zu verbinden, falls Lagerung und Kraftangriffspunkt nicht auf gleicher Seite liegen.

**) no RAL quality label
kein Gütezeichen



Technical data for channels /
Technische Daten der Montageschienen



| Type | | 27/15/1,25 | 27/25/1,25 | 27/37/1,25 | 41/21/1,5 | 41/21/2,0 | 41/31/2,0 | 41/41/2,0 | 41/41/2,5 | 41/45/2,5 | 41/52/2,5 | 41/62/2,5 | 41-75/65/3,0 | 41-75/75/3,0 | 41/21/2,0 D 'y) | 41/41/2,0 D 'y) | 41/41/2,5 D 'y) | 41/45/2,5 D 'y) | 41/52/2,5 D 'y) | 41/62/2,5 D 'y) | 41-75/65/3,0 D 'y) | 41-75/75/3,0 D 'y) |
|---|----|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|-----------------------|
| Section modulus / Widerstandsmoment [cm ³] | Wy | 0.25 | 0.55 | 1.03 | 0.70 | 0.82 | 1.61 | 2.50 | 2.94 | 3.42 | 4.32 | 5.75 | 8.13 | 10.29 | 2.35 | 7.49 | 8.96 | 10.48 | 13.41 | 18.16 | 23.24 | 30.66 |
| | Wz | 0.64 | 0.95 | 1.31 | 1.71 | 2.11 | 2.90 | 3.65 | 4.39 | 4.76 | 5.39 | 6.29 | 10.27 | 11.41 | 4.22 | 7.30 | 8.79 | 9.52 | 10.78 | 12.59 | 20.54 | 22.83 |
| Moment of inertia / Trägheitsmoment [cm ⁴] | Iy | 0.20 | 0.72 | 1.97 | 0.78 | 0.92 | 2.55 | 5.21 | 6.17 | 7.85 | 11.43 | 18.08 | 30.67 | 44.30 | 4.94 | 30.73 | 36.73 | 47.18 | 69.75 | 112.63 | 151.10 | 230.02 |
| | Iz | 0.86 | 1.28 | 1.78 | 3.50 | 4.32 | 5.96 | 7.48 | 9.01 | 9.75 | 11.05 | 12.91 | 38.51 | 42.80 | 8.65 | 14.97 | 18.03 | 19.51 | 22.11 | 25.82 | 77.02 | 85.60 |
| Radius of gyration / Trägheitsradius [cm] | iy | 0.54 | 0.89 | 1.27 | 0.78 | 0.75 | 1.10 | 1.44 | 1.42 | 1.55 | 1.78 | 2.10 | 2.25 | 2.53 | 1.24 | 2.48 | 2.46 | 2.70 | 3.11 | 3.71 | 3.53 | 4.07 |
| | iz | 1.13 | 1.18 | 1.21 | 1.65 | 1.64 | 1.69 | 1.73 | 1.72 | 1.73 | 1.75 | 1.77 | 2.52 | 2.48 | 1.64 | 1.73 | 1.72 | 1.73 | 1.75 | 1.77 | 2.52 | 2.48 |
| Cross section / Querschnitt [cm ²] | | 0.67 | 0.92 | 1.22 | 1.27 | 1.60 | 2.08 | 2.48 | 3.03 | 3.23 | 3.58 | 4.08 | 6.03 | 6.92 | 3.20 | 4.96 | 6.06 | 6.46 | 7.16 | 8.16 | 12.06 | 13.84 |
| Distance / Abstand e [cm] | | 0.80 | 1.30 | 1.91 | 1.11 | 1.11 | 1.58 | 2.07 | 2.09 | 2.29 | 2.64 | 3.14 | 3.77 | 4.30 | 2.10 | 4.10 | 4.10 | 4.50 | 5.20 | 6.20 | 6.50 | 7.50 |
| E modulus / E-Modul [N/mm ²] | | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 | 210,000 |
| max. point carrying moment / max. zul. Punkttrag- fähigkeit F _{max} (Zug) [kN] | | 1.50 | 1.50 | 1.50 | 2.00 | 4.00 | 4.00 | 4.00 | 6.00 | 6.00 | 6.00 | 6.00 | 10.00 | 10.00 | 4.00 | 4.00 | 6.00 | 6.00 | 6.00 | 6.00 | 10.00 | 10.00 |
| max. torsional moment / zul. Schenkeltragmoment M _T [Nm] | | 10.00 | 10.00 | 10.00 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 | 44.50 |

