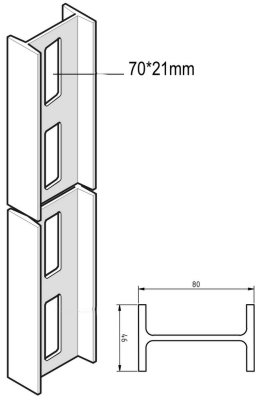


HDPIPE80S

Perforated I-profile



| Reference | ↑ mm | ↔ mm | → ← mm | ↔ mm | kg/m | 📦 | Unit |
|------------------|---------|---------|------------|---------|-------|---|------|
| HDPIPE80S | 80 | 46 | | 6000 | 5,610 | 6 | M |

Moment of resistance: $W_x = 19.96 \text{ cm}^3$.
 Protection cap in yellow PVC: DOPIPE80. 'Load tables' can be found under mounting principle.

| Maximal point loads (X-X) | | | | |
|---------------------------|-----------|-----------------|-----------------------------------|---------------------|
| L [mm] | Fmax [kN] | Deflection [mm] | Maximal Allowable deflection [mm] | Fmax [kN] for L/200 |
| 250 | 74.73 | 0.23 | 1.25 | 41.15 |
| 300 | 77.97 | 0.24 | 1.50 | 39.01 |
| 350 | 81.20 | 0.25 | 1.75 | 36.92 |
| 400 | 84.44 | 0.27 | 2.00 | 34.81 |
| 450 | 87.67 | 0.28 | 2.25 | 32.70 |
| 500 | 90.91 | 0.31 | 2.50 | 30.66 |
| 550 | 94.15 | 0.33 | 2.75 | 28.61 |
| 600 | 97.38 | 0.35 | 3.00 | 26.56 |
| 650 | 100.62 | 0.37 | 3.25 | 24.51 |
| 700 | 103.86 | 0.39 | 3.50 | 22.46 |
| 750 | 107.09 | 0.41 | 3.75 | 20.41 |
| 800 | 110.33 | 0.43 | 4.00 | 18.36 |
| 850 | 113.57 | 0.45 | 4.25 | 16.31 |
| 900 | 116.80 | 0.47 | 4.50 | 14.26 |
| 950 | 120.04 | 0.49 | 4.75 | 12.21 |
| 1000 | 123.28 | 0.51 | 5.00 | 10.16 |
| 1050 | 126.51 | 0.53 | 5.25 | 8.11 |
| 1100 | 129.75 | 0.55 | 5.50 | 6.06 |
| 1150 | 133.00 | 0.57 | 5.75 | 4.01 |
| 1200 | 136.23 | 0.59 | 6.00 | 1.96 |
| 1250 | 139.47 | 0.61 | 6.25 | 0.91 |
| 1300 | 142.71 | 0.63 | 6.50 | 0.86 |
| 1350 | 145.94 | 0.65 | 6.75 | 0.81 |
| 1400 | 149.18 | 0.67 | 7.00 | 0.76 |
| 1450 | 152.42 | 0.69 | 7.25 | 0.71 |
| 1500 | 155.65 | 0.71 | 7.50 | 0.66 |
| 1550 | 158.89 | 0.73 | 7.75 | 0.61 |
| 1600 | 162.13 | 0.75 | 8.00 | 0.56 |
| 1650 | 165.36 | 0.77 | 8.25 | 0.51 |
| 1700 | 168.60 | 0.79 | 8.50 | 0.46 |
| 1750 | 171.84 | 0.81 | 8.75 | 0.41 |
| 1800 | 175.07 | 0.83 | 9.00 | 0.36 |
| 1850 | 178.31 | 0.85 | 9.25 | 0.31 |
| 1900 | 181.55 | 0.87 | 9.50 | 0.26 |
| 1950 | 184.78 | 0.89 | 9.75 | 0.21 |
| 2000 | 188.02 | 0.91 | 10.00 | 0.16 |
| 2050 | 191.26 | 0.93 | 10.25 | 0.11 |
| 2100 | 194.49 | 0.95 | 10.50 | 0.06 |
| 2150 | 197.73 | 0.97 | 10.75 | 0.01 |
| 2200 | 200.97 | 0.99 | 11.00 | 0.00 |
| 2250 | 204.20 | 1.01 | 11.25 | 0.00 |
| 2300 | 207.44 | 1.03 | 11.50 | 0.00 |
| 2350 | 210.68 | 1.05 | 11.75 | 0.00 |
| 2400 | 213.91 | 1.07 | 12.00 | 0.00 |
| 2450 | 217.15 | 1.09 | 12.25 | 0.00 |
| 2500 | 220.39 | 1.11 | 12.50 | 0.00 |
| 2550 | 223.62 | 1.13 | 12.75 | 0.00 |
| 2600 | 226.86 | 1.15 | 13.00 | 0.00 |
| 2650 | 230.10 | 1.17 | 13.25 | 0.00 |
| 2700 | 233.33 | 1.19 | 13.50 | 0.00 |
| 2750 | 236.57 | 1.21 | 13.75 | 0.00 |
| 2800 | 239.81 | 1.23 | 14.00 | 0.00 |
| 2850 | 243.04 | 1.25 | 14.25 | 0.00 |
| 2900 | 246.28 | 1.27 | 14.50 | 0.00 |
| 2950 | 249.52 | 1.29 | 14.75 | 0.00 |
| 3000 | 252.75 | 1.31 | 15.00 | 0.00 |
| 3050 | 256.00 | 1.33 | 15.25 | 0.00 |
| 3100 | 259.24 | 1.35 | 15.50 | 0.00 |
| 3150 | 262.47 | 1.37 | 15.75 | 0.00 |
| 3200 | 265.71 | 1.39 | 16.00 | 0.00 |
| 3250 | 268.95 | 1.41 | 16.25 | 0.00 |
| 3300 | 272.18 | 1.43 | 16.50 | 0.00 |
| 3350 | 275.42 | 1.45 | 16.75 | 0.00 |
| 3400 | 278.66 | 1.47 | 17.00 | 0.00 |
| 3450 | 281.89 | 1.49 | 17.25 | 0.00 |
| 3500 | 285.13 | 1.51 | 17.50 | 0.00 |
| 3550 | 288.37 | 1.53 | 17.75 | 0.00 |
| 3600 | 291.60 | 1.55 | 18.00 | 0.00 |
| 3650 | 294.84 | 1.57 | 18.25 | 0.00 |
| 3700 | 298.08 | 1.59 | 18.50 | 0.00 |
| 3750 | 301.31 | 1.61 | 18.75 | 0.00 |
| 3800 | 304.55 | 1.63 | 19.00 | 0.00 |
| 3850 | 307.79 | 1.65 | 19.25 | 0.00 |
| 3900 | 311.02 | 1.67 | 19.50 | 0.00 |
| 3950 | 314.26 | 1.69 | 19.75 | 0.00 |
| 4000 | 317.50 | 1.71 | 20.00 | 0.00 |

Atkore

Profile type IPE80S

Maximal allowable deflection L/200

| | |
|-----------------|----------------------|
| Axis | 20.7 cm ³ |
| I _{xx} | 21.2 cm ⁴ |
| I _{yy} | 92 cm ⁴ |
| I _{xy} | 8 cm ⁴ |
| Weight profile | 56.1 kg/m |
| Flange width | 52.8 mm |
| Section factor | 1.7 |

Load scenario

For questions please contact your local representative.

| Maximal distributed loads Unistrut profiles (Y-Y) | | | | |
|---|-----------|-----------------|-----------------------------------|---------------------|
| L [mm] | Fmax [kN] | Deflection [mm] | Maximal Allowable deflection [mm] | Fmax [kN] for L/200 |
| 250 | 1.08 | 0.17 | 1.25 | 1.00 |
| 300 | 4.06 | 0.50 | 1.50 | 4.00 |
| 350 | 5.06 | 1.12 | 1.75 | 3.00 |
| 400 | 7.06 | 2.88 | 2.00 | 2.00 |
| 450 | 7.07 | 4.33 | 2.25 | 1.80 |
| 500 | 7.48 | 5.74 | 2.50 | 1.66 |
| 550 | 7.84 | 7.10 | 2.75 | 1.54 |
| 600 | 8.06 | 8.50 | 3.00 | 1.45 |
| 650 | 8.27 | 9.94 | 3.25 | 1.37 |
| 700 | 8.46 | 11.41 | 3.50 | 1.29 |
| 750 | 8.63 | 12.91 | 3.75 | 1.22 |
| 800 | 8.79 | 14.44 | 4.00 | 1.16 |
| 850 | 8.94 | 16.00 | 4.25 | 1.10 |
| 900 | 9.08 | 17.59 | 4.50 | 1.05 |
| 950 | 9.21 | 19.21 | 4.75 | 1.00 |
| 1000 | 9.33 | 20.86 | 5.00 | 0.96 |
| 1050 | 9.44 | 22.54 | 5.25 | 0.92 |
| 1100 | 9.54 | 24.25 | 5.50 | 0.88 |
| 1150 | 9.63 | 26.00 | 5.75 | 0.84 |
| 1200 | 9.71 | 27.78 | 6.00 | 0.81 |
| 1250 | 9.78 | 29.60 | 6.25 | 0.77 |
| 1300 | 9.84 | 31.45 | 6.50 | 0.74 |
| 1350 | 9.89 | 33.34 | 6.75 | 0.71 |
| 1400 | 9.93 | 35.26 | 7.00 | 0.68 |
| 1450 | 9.96 | 37.21 | 7.25 | 0.65 |
| 1500 | 9.98 | 39.19 | 7.50 | 0.62 |
| 1550 | 9.99 | 41.21 | 7.75 | 0.59 |
| 1600 | 10.00 | 43.26 | 8.00 | 0.56 |
| 1650 | 10.00 | 45.34 | 8.25 | 0.53 |
| 1700 | 10.00 | 47.45 | 8.50 | 0.50 |
| 1750 | 10.00 | 49.59 | 8.75 | 0.47 |
| 1800 | 10.00 | 51.76 | 9.00 | 0.44 |
| 1850 | 10.00 | 53.96 | 9.25 | 0.41 |
| 1900 | 10.00 | 56.19 | 9.50 | 0.38 |
| 1950 | 10.00 | 58.44 | 9.75 | 0.35 |
| 2000 | 10.00 | 60.72 | 10.00 | 0.32 |
| 2050 | 10.00 | 63.03 | 10.25 | 0.29 |
| 2100 | 10.00 | 65.37 | 10.50 | 0.26 |
| 2150 | 10.00 | 67.74 | 10.75 | 0.23 |
| 2200 | 10.00 | 70.14 | 11.00 | 0.20 |
| 2250 | 10.00 | 72.57 | 11.25 | 0.17 |
| 2300 | 10.00 | 75.03 | 11.50 | 0.14 |
| 2350 | 10.00 | 77.52 | 11.75 | 0.11 |
| 2400 | 10.00 | 80.04 | 12.00 | 0.08 |
| 2450 | 10.00 | 82.59 | 12.25 | 0.05 |
| 2500 | 10.00 | 85.17 | 12.50 | 0.02 |
| 2550 | 10.00 | 87.78 | 12.75 | 0.00 |
| 2600 | 10.00 | 90.42 | 13.00 | 0.00 |
| 2650 | 10.00 | 93.09 | 13.25 | 0.00 |
| 2700 | 10.00 | 95.79 | 13.50 | 0.00 |
| 2750 | 10.00 | 98.52 | 13.75 | 0.00 |
| 2800 | 10.00 | 101.28 | 14.00 | 0.00 |
| 2850 | 10.00 | 104.07 | 14.25 | 0.00 |
| 2900 | 10.00 | 106.89 | 14.50 | 0.00 |
| 2950 | 10.00 | 109.74 | 14.75 | 0.00 |
| 3000 | 10.00 | 112.62 | 15.00 | 0.00 |
| 3050 | 10.00 | 115.53 | 15.25 | 0.00 |
| 3100 | 10.00 | 118.47 | 15.50 | 0.00 |
| 3150 | 10.00 | 121.44 | 15.75 | 0.00 |
| 3200 | 10.00 | 124.44 | 16.00 | 0.00 |
| 3250 | 10.00 | 127.47 | 16.25 | 0.00 |
| 3300 | 10.00 | 130.53 | 16.50 | 0.00 |
| 3350 | 10.00 | 133.62 | 16.75 | 0.00 |
| 3400 | 10.00 | 136.74 | 17.00 | 0.00 |
| 3450 | 10.00 | 139.89 | 17.25 | 0.00 |
| 3500 | 10.00 | 143.07 | 17.50 | 0.00 |
| 3550 | 10.00 | 146.28 | 17.75 | 0.00 |
| 3600 | 10.00 | 149.52 | 18.00 | 0.00 |
| 3650 | 10.00 | 152.79 | 18.25 | 0.00 |
| 3700 | 10.00 | 156.09 | 18.50 | 0.00 |
| 3750 | 10.00 | 159.42 | 18.75 | 0.00 |
| 3800 | 10.00 | 162.78 | 19.00 | 0.00 |
| 3850 | 10.00 | 166.17 | 19.25 | 0.00 |
| 3900 | 10.00 | 169.59 | 19.50 | 0.00 |
| 3950 | 10.00 | 173.04 | 19.75 | 0.00 |
| 4000 | 10.00 | 176.52 | 20.00 | 0.00 |

Atkore

Profile type IPE80S

Maximal allowable deflection L/200

| | |
|-----------------|----------------------|
| I _{xx} | 21.0 cm ⁴ |
| I _{yy} | 21.4 cm ⁴ |
| I _{xx} | 80 cm ⁴ |
| I _{yy} | 8 cm ⁴ |
| Weight profile | 56.1 kg/m |
| Flange width | 52.8 mm |
| Section factor | 1.7 |

Load scenario

For questions please contact your local representative.