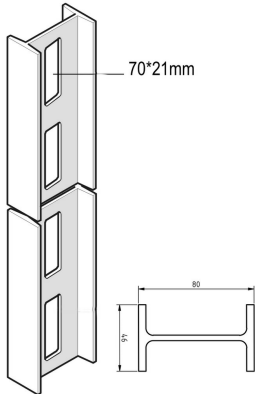


HDPIPE80S

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	14.00	0.27	1.75	14.72
400	11.24	1.27	2.00	11.61
450	8.75	2.13	2.25	8.79
500	7.87	3.27	2.50	7.52
550	6.95	4.67	2.75	6.46
600	6.25	6.41	3.00	5.66
650	5.64	8.50	3.25	5.04
700	5.11	10.7	3.50	4.51
750	4.64	13.1	3.75	4.04
800	4.23	15.6	4.00	3.63
850	3.87	18.3	4.25	3.27
900	3.55	21.1	4.50	2.95
950	3.27	24.0	4.75	2.67
1000	3.02	27.0	5.00	2.42
1050	2.79	30.1	5.25	2.20
1100	2.59	33.3	5.50	2.00
1150	2.41	36.6	5.75	1.82
1200	2.25	40.0	6.00	1.66
1250	2.11	43.5	6.25	1.52
1300	1.98	47.1	6.50	1.40
1350	1.87	50.8	6.75	1.29
1400	1.77	54.6	7.00	1.20
1450	1.67	58.5	7.25	1.11
1500	1.57	62.5	7.50	1.03
1550	1.47	66.6	7.75	0.95
1600	1.37	70.8	8.00	0.88
1650	1.27	75.1	8.25	0.81
1700	1.17	79.5	8.50	0.75
1750	1.07	84.0	8.75	0.69
1800	1.00	88.6	9.00	0.64
1850	0.93	93.3	9.25	0.59
1900	0.87	98.1	9.50	0.55
1950	0.81	103.0	9.75	0.51
2000	0.76	108.0	10.00	0.47
2050	0.71	113.1	10.25	0.44
2100	0.66	118.3	10.50	0.41
2150	0.62	123.6	10.75	0.38
2200	0.58	129.0	11.00	0.35
2250	0.54	134.5	11.25	0.33
2300	0.50	140.1	11.50	0.31
2350	0.47	145.8	11.75	0.29
2400	0.44	151.6	12.00	0.27
2450	0.41	157.5	12.25	0.25
2500	0.38	163.5	12.50	0.24
2550	0.36	169.6	12.75	0.23
2600	0.34	175.8	13.00	0.22
2650	0.32	182.1	13.25	0.21
2700	0.30	188.5	13.50	0.20
2750	0.28	195.0	13.75	0.19
2800	0.27	201.6	14.00	0.18
2850	0.26	208.3	14.25	0.18
2900	0.25	215.1	14.50	0.17
2950	0.24	222.0	14.75	0.17
3000	0.23	229.0	15.00	0.16
3050	0.22	236.1	15.25	0.16
3100	0.21	243.3	15.50	0.15
3150	0.20	250.6	15.75	0.15
3200	0.19	258.0	16.00	0.14
3250	0.18	265.5	16.25	0.14
3300	0.17	273.1	16.50	0.14
3350	0.16	280.8	16.75	0.13
3400	0.16	288.6	17.00	0.13
3450	0.15	296.5	17.25	0.13
3500	0.14	304.5	17.50	0.12
3550	0.14	312.6	17.75	0.12
3600	0.13	320.8	18.00	0.12
3650	0.13	329.1	18.25	0.11
3700	0.12	337.5	18.50	0.11
3750	0.12	346.0	18.75	0.11
3800	0.11	354.6	19.00	0.10
3850	0.11	363.3	19.25	0.10
3900	0.10	372.1	19.50	0.10
3950	0.10	381.0	19.75	0.10
4000	0.09	390.0	20.00	0.09
4050	0.09	399.1	20.25	0.09
4100	0.09	408.3	20.50	0.09
4150	0.08	417.6	20.75	0.08
4200	0.08	427.0	21.00	0.08
4250	0.08	436.5	21.25	0.08
4300	0.07	446.1	21.50	0.08
4350	0.07	455.8	21.75	0.07
4400	0.07	465.6	22.00	0.07
4450	0.07	475.5	22.25	0.07
4500	0.06	485.5	22.50	0.07
4550	0.06	495.6	22.75	0.06
4600	0.06	505.8	23.00	0.06
4650	0.06	516.1	23.25	0.06
4700	0.05	526.5	23.50	0.06
4750	0.05	537.0	23.75	0.05
4800	0.05	547.6	24.00	0.05
4850	0.05	558.3	24.25	0.05
4900	0.04	569.1	24.50	0.05
4950	0.04	580.0	24.75	0.04
5000	0.04	591.0	25.00	0.04
5050	0.04	602.1	25.25	0.04
5100	0.04	613.3	25.50	0.04
5150	0.03	624.6	25.75	0.04
5200	0.03	636.0	26.00	0.03
5250	0.03	647.5	26.25	0.03
5300	0.03	659.1	26.50	0.03
5350	0.03	670.8	26.75	0.03
5400	0.02	682.6	27.00	0.03
5450	0.02	694.5	27.25	0.02
5500	0.02	706.5	27.50	0.02
5550	0.02	718.6	27.75	0.02
5600	0.02	730.8	28.00	0.02
5650	0.02	743.1	28.25	0.02
5700	0.01	755.5	28.50	0.02
5750	0.01	768.0	28.75	0.01
5800	0.01	780.6	29.00	0.01
5850	0.01	793.3	29.25	0.01
5900	0.01	806.1	29.50	0.01
5950	0.01	819.0	29.75	0.01
6000	0.01	832.0	30.00	0.01

Profile type IPE80S

Maximal allowable deflection: $L/200$

Properties:

- Area: 20.7 cm^2
- I_{xx} : 211 cm^4
- I_{yy} : 92 cm^4
- Weight profile: 56.1 N/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	1.02
300	4.06	0.59	1.50	4.69
350	3.36	1.12	1.75	3.69
400	2.95	1.68	2.00	2.99
450	2.67	2.33	2.25	2.41
500	2.48	3.04	2.50	1.96
550	2.34	3.79	2.75	1.61
600	2.23	4.57	3.00	1.34
650	2.14	5.38	3.25	1.13
700	2.07	6.21	3.50	0.96
750	2.00	7.06	3.75	0.82
800	1.94	7.93	4.00	0.70
850	1.89	8.81	4.25	0.60
900	1.84	9.71	4.50	0.52
950	1.80	10.62	4.75	0.45
1000	1.76	11.55	5.00	0.39
1050	1.72	12.49	5.25	0.34
1100	1.68	13.45	5.50	0.30
1150	1.65	14.42	5.75	0.26
1200	1.62	15.41	6.00	0.23
1250	1.59	16.41	6.25	0.20
1300	1.56	17.43	6.50	0.17
1350	1.53	18.46	6.75	0.15
1400	1.50	19.51	7.00	0.13
1450	1.47	20.57	7.25	0.11
1500	1.44	21.64	7.50	0.09
1550	1.41	22.72	7.75	0.08
1600	1.38	23.81	8.00	0.07
1650	1.35	24.91	8.25	0.06
1700	1.32	26.02	8.50	0.05
1750	1.29	27.14	8.75	0.04
1800	1.26	28.27	9.00	0.03
1850	1.23	29.41	9.25	0.02
1900	1.20	30.56	9.50	0.02
1950	1.17	31.72	9.75	0.01
2000	1.14	32.89	10.00	0.01
2050	1.11	34.07	10.25	0.01
2100	1.08	35.26	10.50	0.01
2150	1.05	36.46	10.75	0.00
2200	1.02	37.67	11.00	0.00
2250	1.00	38.89	11.25	0.00
2300	0.97	40.12	11.50	0.00
2350	0.94	41.36	11.75	0.00
2400	0.91	42.61	12.00	0.00
2450	0.88	43.87	12.25	0.00
2500	0.85	45.14	12.50	0.00
2550	0.82	46.42	12.75	0.00
2600	0.79	47.71	13.00	0.00
2650	0.76	49.01	13.25	0.00
2700	0.73	50.32	13.50	0.00
2750	0.70	51.64	13.75	0.00
2800	0.67	52.97	14.00	0.00
2850	0.64	54.31	14.25	0.00
2900	0.61	55.66	14.50	0.00
2950	0.58	57.02	14.75	0.00
3000	0.55	58.39	15.00	0.00
3050	0.52	59.77	15.25	0.00
3100	0.49	61.16	15.50	0.00
3150	0.46	62.56	15.75	0.00
3200	0.43	63.97	16.00	0.00
3250	0.40	65.39	16.25	0.00
3300	0.37	66.82	16.50	0.00
3350	0.34	68.26	16.75	0.00
3400	0.31	69.71	17.00	0.00
3450	0.28	71.17	17.25	0.00
3500	0.25	72.64	17.50	0.00
3550	0.22	74.12	17.75	0.00
3600	0.19	75.61	18.00	0.00
3650	0.16	77.11	18.25	0.00
3700	0.13	78.62	18.50	0.00
3750	0.10	80.14	18.75	0.00
3800	0.07	81.67	19.00	0.00
3850	0.04	83.21	19.25	0.00
3900	0.01	84.76	19.50	0.00
3950	0.00	86.32	19.75	0.00
4000	0.00	87.89	20.00	0.00

Profile type IPE80S

Maximal allowable deflection: $L/200$

Properties:

- I_{xx} : 211 cm^4
- I_{yy} : 92 cm^4
- Weight profile: 56.1 N/m
- Flange width: 52.8 mm
- Section factor: 1.7

Load scenario

For questions please contact your local representative.