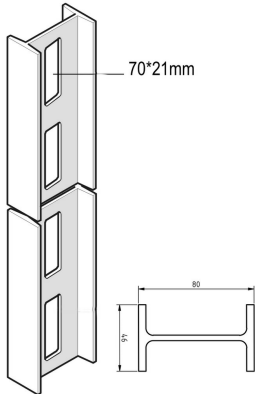


# HDPIPE80S

## Perforated I-profile



Reference	↑ mm	↔ mm	→  ← mm	↔ mm	kg/m	📦	Unit
<b>HDPIPE80S</b>	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.

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	8.70
500	7.87	3.27	2.50	7.52
550	6.95	4.67	2.75	6.46
600	6.20	6.41	3.00	5.66
650	5.64	8.50	3.25	5.11
700	5.21	10.84	3.50	4.71
750	4.88	13.53	3.75	4.42
800	4.61	16.57	4.00	4.20
850	4.38	19.97	4.25	4.02
900	4.19	23.74	4.50	3.87
950	4.03	27.89	4.75	3.74
1000	3.90	32.43	5.00	3.63
1050	3.79	37.36	5.25	3.53
1100	3.70	42.69	5.50	3.44
1150	3.62	48.42	5.75	3.36
1200	3.55	54.55	6.00	3.29
1250	3.49	61.08	6.25	3.23
1300	3.44	68.01	6.50	3.17
1350	3.39	75.34	6.75	3.12
1400	3.35	83.07	7.00	3.07
1450	3.31	91.20	7.25	3.03
1500	3.27	99.73	7.50	2.99
1550	3.24	108.66	7.75	2.95
1600	3.21	118.00	8.00	2.91
1650	3.18	127.74	8.25	2.88
1700	3.15	137.89	8.50	2.85
1750	3.13	148.45	8.75	2.82
1800	3.11	159.43	9.00	2.79
1850	3.09	170.83	9.25	2.76
1900	3.07	182.65	9.50	2.74
1950	3.05	194.89	9.75	2.72
2000	3.04	207.56	10.00	2.70
2050	3.03	220.66	10.25	2.68
2100	3.02	234.19	10.50	2.66
2150	3.01	248.15	10.75	2.65
2200	3.00	262.54	11.00	2.64
2250	3.00	277.36	11.25	2.63
2300	3.00	292.62	11.50	2.62
2350	3.00	308.33	11.75	2.61
2400	3.00	324.49	12.00	2.60
2450	3.00	341.11	12.25	2.60
2500	3.00	358.19	12.50	2.59
2550	3.00	375.74	12.75	2.58
2600	3.00	393.76	13.00	2.58
2650	3.00	412.25	13.25	2.57
2700	3.00	431.22	13.50	2.57
2750	3.00	450.67	13.75	2.56
2800	3.00	470.61	14.00	2.56
2850	3.00	491.04	14.25	2.55
2900	3.00	511.97	14.50	2.55
2950	3.00	533.40	14.75	2.54
3000	3.00	555.34	15.00	2.54
3050	3.00	577.78	15.25	2.53
3100	3.00	600.73	15.50	2.53
3150	3.00	624.19	15.75	2.52
3200	3.00	648.16	16.00	2.52
3250	3.00	672.64	16.25	2.51
3300	3.00	697.63	16.50	2.51
3350	3.00	723.14	16.75	2.50
3400	3.00	749.17	17.00	2.50
3450	3.00	775.73	17.25	2.49
3500	3.00	802.82	17.50	2.49
3550	3.00	830.44	17.75	2.48
3600	3.00	858.59	18.00	2.48
3650	3.00	887.28	18.25	2.47
3700	3.00	916.51	18.50	2.47
3750	3.00	946.28	18.75	2.46
3800	3.00	976.60	19.00	2.46
3850	3.00	1007.47	19.25	2.45
3900	3.00	1038.90	19.50	2.45
3950	3.00	1070.89	19.75	2.44
4000	3.00	1103.45	20.00	2.44
4050	3.00	1136.58	20.25	2.43
4100	3.00	1170.28	20.50	2.43
4150	3.00	1204.55	20.75	2.42
4200	3.00	1239.39	21.00	2.42
4250	3.00	1274.80	21.25	2.41
4300	3.00	1310.79	21.50	2.41
4350	3.00	1347.36	21.75	2.40
4400	3.00	1384.52	22.00	2.40
4450	3.00	1422.27	22.25	2.39
4500	3.00	1460.62	22.50	2.39
4550	3.00	1499.57	22.75	2.38
4600	3.00	1539.13	23.00	2.38
4650	3.00	1579.30	23.25	2.37
4700	3.00	1620.08	23.50	2.37
4750	3.00	1661.47	23.75	2.36
4800	3.00	1703.48	24.00	2.36
4850	3.00	1746.11	24.25	2.35
4900	3.00	1789.36	24.50	2.35
4950	3.00	1833.23	24.75	2.34
5000	3.00	1877.73	25.00	2.34
5050	3.00	1922.86	25.25	2.33
5100	3.00	1968.62	25.50	2.33
5150	3.00	2015.01	25.75	2.32
5200	3.00	2062.04	26.00	2.32
5250	3.00	2109.71	26.25	2.31
5300	3.00	2158.03	26.50	2.31
5350	3.00	2207.00	26.75	2.30
5400	3.00	2256.63	27.00	2.30
5450	3.00	2306.92	27.25	2.29
5500	3.00	2357.87	27.50	2.29
5550	3.00	2409.49	27.75	2.28
5600	3.00	2461.77	28.00	2.28
5650	3.00	2514.72	28.25	2.27
5700	3.00	2568.34	28.50	2.27
5750	3.00	2622.63	28.75	2.26
5800	3.00	2677.60	29.00	2.26
5850	3.00	2733.25	29.25	2.25
5900	3.00	2789.58	29.50	2.25
5950	3.00	2846.59	29.75	2.24
6000	3.00	2904.28	30.00	2.24

**Atkore**

**Profile type IPE80S**

Maximal allowable deflection: **L/200**

Max. span: 20.7 m

Sp. c: 2.5 cm

W. c: 90 cm

W. r: 8 cm

Weight profile: 56.1 kg/m

Prod. weight: 528.2 kg/m

Self-weight: 1.7

**Load scenario**

For questions please contact your local representative.

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	5.36	1.12	1.75	3.60
400	7.05	2.08	2.00	3.20
450	9.07	3.33	2.25	2.80
500	11.45	4.94	2.50	2.40
550	14.11	6.90	2.75	2.20
600	17.06	9.22	3.00	2.00
650	20.31	11.90	3.25	1.80
700	23.86	14.94	3.50	1.60
750	27.71	18.35	3.75	1.40
800	31.86	22.14	4.00	1.20
850	36.31	26.31	4.25	1.00
900	41.06	30.87	4.50	0.80
950	46.11	35.82	4.75	0.60
1000	51.46	41.17	5.00	0.40
1050	57.11	46.92	5.25	0.30
1100	63.06	53.07	5.50	0.20
1150	69.31	59.62	5.75	0.15
1200	75.86	66.57	6.00	0.10
1250	82.71	73.92	6.25	0.05
1300	89.86	81.67	6.50	0.00
1350	97.31	89.82	6.75	0.00
1400	105.06	98.37	7.00	0.00
1450	113.11	107.32	7.25	0.00
1500	121.46	116.67	7.50	0.00
1550	130.11	126.42	7.75	0.00
1600	139.06	136.57	8.00	0.00
1650	148.31	147.12	8.25	0.00
1700	157.86	158.07	8.50	0.00
1750	167.71	169.42	8.75	0.00
1800	177.86	181.17	9.00	0.00
1850	188.31	193.32	9.25	0.00
1900	199.06	205.87	9.50	0.00
1950	210.11	218.82	9.75	0.00
2000	221.46	232.17	10.00	0.00
2050	233.11	245.92	10.25	0.00
2100	245.06	260.07	10.50	0.00
2150	257.31	274.62	10.75	0.00
2200	270.06	289.57	11.00	0.00
2250	283.21	304.92	11.25	0.00
2300	296.86	320.67	11.50	0.00
2350	310.91	336.82	11.75	0.00
2400	325.46	353.37	12.00	0.00
2450	340.51	370.32	12.25	0.00
2500	356.06	387.67	12.50	0.00
2550	372.11	405.42	12.75	0.00
2600	388.76	423.57	13.00	0.00
2650	406.01	442.12	13.25	0.00
2700	423.86	461.07	13.50	0.00
2750	442.31	480.42	13.75	0.00
2800	461.46	500.17	14.00	0.00
2850	481.21	520.32	14.25	0.00
2900	501.66	540.87	14.50	0.00
2950	522.81	561.82	14.75	0.00
3000	544.66	583.17	15.00	0.00

**Atkore**

**Profile type IPE80S**

Maximal allowable deflection: **L/200**

Sp. c: 22.0 cm

Sp. v: 2.1 cm

W. c: 90 cm

W. r: 8 cm

Weight profile: 56.1 kg/m

Prod. weight: 528.2 kg/m

Self-weight: 1.7

**Load scenario**

For questions please contact your local representative.