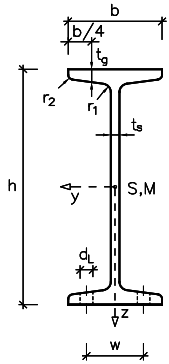


I-Profile nach DIN 1025-1

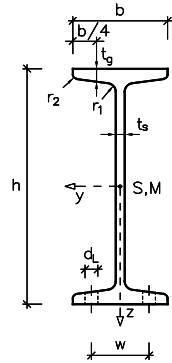
Profil	Abmessungen						Flächen		Gewicht G	Biegung um die y-Achse			Biegung um die z-Achse			Löcher		
	h	b	ts	tg	r	r1	A	Asteg		Iy	iy	Wy	Iz	iz	Wz	dL	w	w1
I	mm	mm	mm	mm	mm	mm	cm ²	cm ²	kg/m	cm ⁴	mm	cm ³	cm ⁴	mm	cm ³	mm	mm	mm
80	80.00	42.00	3.90	5.90	3.90	2.30	7.57	2.66	5.94	77.80	32.00	19.50	6.29	9.10	3.00	-	-	22.00
100	100.00	50.00	4.50	6.80	4.50	2.70	10.60	3.89	8.32	171.00	40.10	34.20	12.20	10.70	4.88	-	-	28.00
120	120.00	58.00	5.10	7.70	5.10	3.10	14.20	5.33	11.15	328.00	48.10	54.70	21.50	12.30	7.41	-	-	32.00
140	140.00	66.00	5.70	8.60	5.70	3.40	18.20	7.00	14.29	573.00	56.10	81.90	35.20	14.00	10.70	-	-	34.00
160	160.00	74.00	6.30	9.50	6.30	3.80	22.80	8.88	17.90	935.00	64.00	117.00	54.70	15.50	14.80	-	-	40.00
180	180.00	82.00	6.90	10.40	6.90	4.10	27.90	11.00	21.90	1450.00	72.00	161.00	81.30	17.10	19.80	-	-	44.00
200	200.00	90.00	7.50	11.30	7.50	4.50	33.40	13.30	26.22	2140.00	80.00	214.00	117.00	18.70	26.00	-	-	48.00
220	220.00	98.00	8.10	12.20	8.10	4.90	39.50	15.80	31.01	3060.00	88.00	278.00	162.00	20.20	33.10	11.00	68.00	52.00
240	240.00	106.00	8.70	13.10	8.70	5.20	46.10	18.60	36.19	4250.00	95.90	354.00	221.00	22.00	41.70	13.00	69.00	56.00
260	260.00	113.00	9.40	14.10	9.40	5.60	53.30	21.80	41.84	5740.00	104.00	442.00	288.00	23.20	51.00	13.00	69.00	60.00
280	280.00	119.00	10.10	15.20	10.10	6.10	61.00	25.20	47.89	7590.00	111.00	542.00	364.00	24.50	61.20	13.00	70.00	62.00
300	300.00	125.00	10.80	16.20	10.80	6.50	69.00	28.90	54.17	9800.00	119.00	653.00	451.00	25.60	72.20	17.00	81.00	64.00
320	320.00	131.00	11.50	17.30	11.50	6.90	77.70	32.80	60.99	12510.00	127.00	782.00	555.00	26.70	84.70	17.00	82.00	70.00
340	340.00	137.00	12.20	18.30	12.20	7.30	86.70	37.00	68.06	15700.00	135.00	923.00	674.00	28.00	98.40	17.00	82.00	74.00
360	360.00	143.00	13.00	19.50	13.00	7.80	97.00	41.70	76.15	19610.00	142.00	1090.00	818.00	29.00	114.00	21.00	90.00	76.00
380	380.00	149.00	13.70	20.50	13.70	8.20	107.00	46.40	84.00	24010.00	150.00	1260.00	975.00	30.20	131.00	21.00	92.00	82.00
400	400.00	155.00	14.40	21.60	14.40	8.60	118.00	51.40	92.63	29210.00	157.00	1460.00	1160.00	31.30	149.00	21.00	94.00	86.00
425	425.00	163.00	15.30	23.00	15.30	9.20	132.00	58.00	103.62	36970.00	167.00	1740.00	1440.00	33.00	176.00	-	-	88.00
450	450.00	170.00	16.20	24.30	16.20	9.70	147.00	65.00	115.40	45850.00	177.00	2040.00	1730.00	34.30	203.00	21.00	100.00	94.00
475	475.00	178.00	17.10	25.60	17.10	10.30	163.00	72.50	127.96	56480.00	186.00	2380.00	2090.00	36.00	235.00	-	-	96.00
500	500.00	185.00	18.00	27.00	18.00	10.80	179.00	80.30	140.52	68740.00	196.00	2750.00	2480.00	37.20	268.00	25.00	117.00	100.00
550	550.00	200.00	19.00	30.00	19.00	11.90	212.00	93.10	166.42	99180.00	216.00	3610.00	3490.00	40.20	349.00	28.00	127.00	110.00
600	600.00	215.00	21.60	32.40	21.60	13.00	254.00	116.00	199.39	139000.00	234.00	4630.00	4670.00	43.00	434.00	-	-	120.00

Hinweis: w1 = Flanschenlöcher nach DIN 997 Ausg. Okt. 1970



I-Profile nach DIN 1025-1

Profil	Flächen				Querschnittsgewicht		Mantel	Biegung								Torsion
	A _y	A _z	A _{v,y}	A _{v,z}	V	Am/V	U	S _{y,max}	W _{pl,y}	apl,y	izg	S _{z,max}	W _{pl,z}	apl,z	ip	It
I	cm ²	cm ²	cm ²	cm ²	cm ³ /m	1/m	m ² /m	cm ³	cm ³		mm	cm ³	cm ³		mm	cm ⁴
80	4.12	2.77	5.26	3.30	757.00	401.59	0.30	11.40	22.80	1.17	10.20	1.30	5.50	1.83	33.30	0.87
100	5.65	4.02	7.21	4.72	1060.00	349.06	0.37	19.90	39.80	1.16	12.10	2.13	8.99	1.84	41.50	1.60
120	7.41	5.50	9.45	6.45	1420.00	309.16	0.44	31.80	63.60	1.16	13.50	3.24	13.71	1.85	49.60	2.71
140	9.42	7.20	12.00	8.32	1820.00	275.82	0.50	47.70	95.40	1.17	15.80	4.68	19.84	1.86	57.80	4.32
160	11.66	9.12	14.85	10.54	2280.00	252.19	0.57	68.00	136.00	1.16	17.60	6.50	27.57	1.86	65.90	6.57
180	14.15	11.26	18.01	13.00	2790.00	229.39	0.64	93.40	186.80	1.16	19.50	8.74	37.06	1.87	74.00	9.58
200	16.86	13.62	21.47	15.60	3340.00	212.28	0.71	125.00	250.00	1.17	21.40	11.44	48.52	1.87	82.20	13.50
220	19.82	16.20	25.22	18.55	3950.00	196.20	0.77	162.00	324.00	1.17	23.10	14.65	62.12	1.88	90.30	18.60
240	23.02	19.01	29.29	21.75	4610.00	183.08	0.84	206.00	412.00	1.16	25.10	18.40	78.05	1.87	98.40	25.00
260	26.44	22.30	33.63	25.41	5330.00	169.98	0.91	257.00	514.00	1.16	26.60	22.51	95.66	1.88	106.60	33.50
280	30.04	25.77	38.22	29.43	6100.00	158.36	0.97	316.00	632.00	1.17	28.10	26.91	114.63	1.87	113.70	44.20
300	33.67	29.60	42.83	33.75	6900.00	149.28	1.03	381.00	762.00	1.17	29.40	31.64	135.15	1.87	121.70	56.80
320	37.71	33.57	47.97	38.34	7770.00	140.28	1.09	457.00	914.00	1.17	30.80	37.11	158.82	1.88	129.80	72.50
340	41.77	37.92	53.12	43.26	8670.00	132.64	1.15	540.00	1080.00	1.17	32.20	42.93	184.15	1.87	137.90	90.40
360	46.52	42.79	59.15	48.84	9700.00	124.74	1.21	638.00	1276.00	1.17	33.60	49.84	214.30	1.88	144.90	115.00
380	50.98	47.65	64.84	54.34	10700.00	118.69	1.27	741.00	1482.00	1.18	35.00	56.89	245.06	1.87	153.00	141.00
400	55.91	52.65	71.11	60.37	11800.00	112.71	1.33	857.00	1714.00	1.17	36.40	64.87	279.82	1.88	160.10	170.00
425	62.61	59.30	79.66	67.58	13200.00	106.82	1.41	1020.00	2040.00	1.17	38.30	76.39	329.95	1.88	170.20	216.00
450	69.07	66.60	87.87	76.19	14700.00	100.68	1.48	1200.00	2400.00	1.18	39.90	87.78	380.11	1.87	180.30	267.00
475	76.25	74.37	96.98	85.00	16300.00	95.09	1.55	1400.00	2800.00	1.18	41.70	101.39	439.64	1.87	189.50	329.00
500	83.64	82.25	106.38	93.68	17900.00	91.06	1.63	1620.00	3240.00	1.18	43.30	115.51	501.78	1.87	199.50	402.00
550	100.36	95.52	127.22	109.10	21200.00	84.91	1.80	2120.00	4240.00	1.18	47.10	150.00	648.48	1.86	219.70	544.00
600	116.92	118.47	148.65	135.68	25400.00	75.59	1.92	2730.00	5460.00	1.18	50.10	187.21	817.53	1.88	237.90	813.00



I-Profile nach DIN 1025-1

Profil	Wölb torsion						Grenzschnittgrößen für $f_{y,d} = 218,2 \text{ N/mm}^2$		
	I_{ω} cm ⁶	W_{ω} cm ⁴	ω_{\max} cm ²	$S_{\omega, \max}$ cm ⁴	$W_{pl, \omega}$ cm ⁴	$\alpha_{pl, \omega}$	$N_{pl, d}$ kN	$V_{pl, z, d}$ kN	$M_{pl, y, d}$ kNm
80	87.50	11.25	7.78	4.82	17.40	1.55	165.20	36.40	4.95
100	268.00	23.00	11.65	9.90	35.70	1.55	231.80	52.83	8.67
120	685.00	42.07	16.28	18.18	65.30	1.55	309.40	72.15	13.86
140	1540.00	71.03	21.68	30.77	110.00	1.55	398.00	94.35	20.77
160	3138.00	112.71	27.84	48.93	175.00	1.55	497.50	119.40	29.64
180	5924.00	170.39	34.77	74.13	265.00	1.56	608.00	147.40	40.73
200	10520.00	247.78	42.46	107.95	386.00	1.56	729.50	178.30	54.24
220	17760.00	348.84	50.91	152.17	544.00	1.56	861.90	212.00	70.45
240	28730.00	477.81	60.13	208.74	745.00	1.56	1005.00	248.70	89.61
260	44070.00	634.40	69.47	276.70	989.00	1.56	1163.00	291.20	112.00
280	64580.00	819.77	78.78	356.23	1280.00	1.56	1331.00	336.90	137.60
300	91850.00	1035.66	88.69	448.98	1610.00	1.56	1505.00	386.10	166.10
320	128800.00	1299.25	99.13	561.67	2020.00	1.56	1695.00	438.50	199.10
340	176300.00	1600.08	110.18	690.59	2480.00	1.55	1891.00	494.40	235.30
360	240100.00	1972.42	121.73	848.60	3060.00	1.55	2116.00	557.60	278.00
380	318700.00	2379.89	133.91	1022.60	3690.00	1.55	2334.00	620.40	323.00
400	419600.00	2861.62	146.63	1227.29	4430.00	1.55	2569.00	686.40	373.60
425	587500.00	3586.36	163.82	1535.36	5550.00	1.55	2880.00	774.80	448.70
450	791100.00	4372.59	180.92	1868.48	6760.00	1.55	3206.00	868.70	522.30
475	1067000.00	5335.45	199.98	2278.21	8250.00	1.55	3557.00	968.10	614.40
500	1403000.00	6413.35	218.76	2731.80	9900.00	1.54	3913.00	1072.00	705.80
550	2389000.00	9188.46	260.00	3900.00	14200.00	1.55	4626.00	1245.00	922.80
600	3821000.00	12524.40	305.09	5313.06	19300.00	1.54	5542.00	1545.00	1200.00