



## EUROPEAN I BEAMS: Dimensions and Properties (IPE)

Designation	G	h	b	t <sub>w</sub>	t <sub>f</sub>	r	A	h <sub>1</sub>	d	I <sub>y</sub>	I <sub>z</sub>	i <sub>y</sub>	i <sub>z</sub>	W <sub>y</sub>	W <sub>z</sub>	W <sub>ply</sub>	W <sub>plz</sub>	I <sub>w</sub>	I <sub>T</sub>
	kg/m	mm	mm	mm	mm	mm	cm <sup>2</sup>	mm	mm	cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>3</sup>	dm <sup>6</sup>	cm <sup>4</sup>
IPE 100 A	6.89	98	55	3.6	4.7	7	8.78	88.6	74.6	141	13.1	4.01	1.22	28.8	4.77	33.0	7.54	0.000	0.727
IPE 100	8.10	100	55	4.1	5.7	7	10.3	88.6	74.6	171	15.9	4.07	1.24	34.2	5.79	39.4	9.15	0.000	1.16
IPE 120 A	8.66	118	64	3.8	5.1	7	11.0	107.4	93.4	257	22.4	4.83	1.42	43.8	7.00	49.9	11.0	0.001	0.996
IPE 120	10.4	120	64	4.4	6.3	7	13.2	107.4	93.4	318	27.7	4.90	1.45	53.0	8.65	60.7	13.6	0.001	1.69
IPE 140 A	10.5	138	73	3.8	5.6	7	13.4	126.2	112.2	435	36.4	5.70	1.65	63.3	9.98	71.6	15.5	0.002	1.34
IPE 140	12.9	140	73	4.7	6.9	7	16.4	126.2	112.2	541	44.9	5.74	1.65	77.3	12.3	88.3	19.2	0.002	2.40
IPE 140 R	14.4	142	72	5.3	7.8	7	18.4	126.4	112.4	611	48.8	5.77	1.63	86.1	13.5	99.1	21.3	0.002	3.36
IPE 160 A	12.7	157	82	4.0	5.9	9	16.2	145.2	127.2	689	54.4	6.53	1.83	87.8	13.3	99.1	20.7	0.003	1.93
IPE 160	15.8	160	82	5.0	7.4	9	20.1	145.2	127.2	869	68.3	6.58	1.84	109	16.7	124	26.1	0.004	3.54
IPE 160 R	17.7	162	81	5.6	8.5	9	22.6	145.0	127.0	989	75.7	6.62	1.83	122	18.7	140	29.4	0.004	5.05
IPE 180 A	15.4	177	91	4.3	6.5	9	19.6	164.0	146.0	1063	81.9	7.37	2.05	120	18.0	135	28.0	0.006	2.67
IPE 180	18.8	180	91	5.3	8.0	9	23.9	164.0	146.0	1317	101	7.42	2.05	146	22.2	166	34.6	0.007	4.73
IPE 180 O	21.3	182	92	6.0	9.0	9	27.1	164.0	146.0	1505	117	7.45	2.08	165	25.5	189	39.9	0.009	6.65
IPE 180 R	22.1	183	89	6.4	9.5	9	28.1	164.0	146.0	1554	112	7.44	2.00	170	25.2	195	39.7	0.008	7.63
IPE 200 A	18.4	197	100	4.5	7.0	12	23.5	183.0	159.0	1591	117	8.23	2.23	162	23.4	182	36.5	0.011	4.14
IPE 200	22.4	200	100	5.6	8.5	12	28.5	183.0	159.0	1943	142	8.26	2.24	194	28.5	221	44.6	0.013	6.92
IPE 200 O	25.1	202	102	6.2	9.5	12	32.0	183.0	159.0	2211	169	8.32	2.30	219	33.1	249	51.9	0.016	9.36
IPE 200 R	26.6	204	98	6.6	10.5	12	33.9	183.0	159.0	2363	166	8.35	2.21	232	33.8	265	53.2	0.016	11.7
IPE 220 A	22.2	217	110	5.0	7.7	12	28.3	201.6	177.6	2317	171	9.05	2.46	214	31.2	240	48.5	0.019	5.68
IPE 220	26.2	220	110	5.9	9.2	12	33.4	201.6	177.6	2772	205	9.11	2.48	252	37.3	285	58.1	0.023	9.03
IPE 220 O	29.4	222	112	6.6	10.2	12	37.4	201.6	177.6	3134	240	9.16	2.53	282	42.8	321	66.9	0.027	12.2
IPE 220 R	31.6	225	108	6.7	11.8	12	40.2	201.4	177.4	3474	249	9.29	2.49	309	46.1	352	71.8	0.028	16.4
IPE 240 A	26.2	237	120	5.2	8.3	15	33.3	220.4	190.4	3290	240	9.94	2.68	278	40.0	312	62.4	0.031	8.50
IPE 240	30.7	240	120	6.2	9.8	15	39.1	220.4	190.4	3892	284	9.97	2.69	324	47.3	367	73.9	0.038	13.0
IPE 240 O	34.3	242	122	7.0	10.8	15	43.7	220.4	190.4	4369	329	10.0	2.74	361	53.9	410	84.4	0.044	17.1
IPE 240 R	37.3	245	118	7.5	12.3	15	47.5	220.4	190.4	4823	339	10.1	2.67	394	57.4	450	90.1	0.046	22.8