

Poutrelles I européennes

Dimensions: IPE 80 - 600 conformes à la norme antérieure EU 19-57

Tolérances: EN 10034: 1993

Etat de surface: conforme à EN 10163-3: 2004, classe C, sous-classe 1

European I beams

Dimensions: IPE 80 - 600 in accordance with former standard EU 19-57

Tolerances: EN 10034: 1993

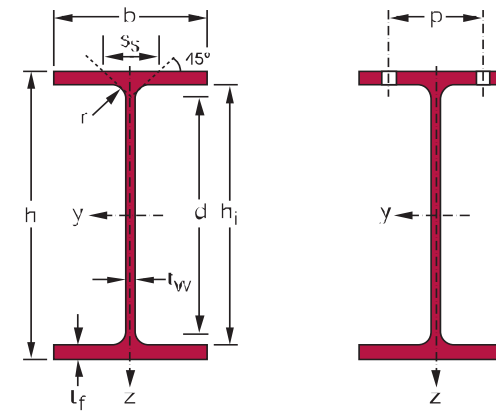
Surface condition: according to EN 10163-3: 2004, class C, subclass 1

Europäische I-Profile

Abmessungen: IPE 80 - 600 gemäß früherer Norm EU 19-57

Toleranzen: EN 10034: 1993

Oberflächenbeschaffenheit: Gemäß EN 10163-3: 2004, Klasse C, Untergruppe 1



IPE

Désignation Designation Bezeichnung	Dimensions Abmessungen						Dimensions de construction Dimensions for detailing Konstruktionsmaße					
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	h <sub>i</sub> mm	d mm	Ø	p <sub>min</sub> mm	p <sub>max</sub> mm

IPE 80	6.0	80	46	3.8	5.2	5.0	7.64	69.6	59.6	-	-	-
IPE 100	8.1	100	55	4.1	5.7	7.0	10.3	88.6	74.6	-	-	-
IPE 120	10.4	120	64	4.4	6.3	7.0	13.2	107.4	93.4	-	-	-
IPE 140	12.9	140	73	4.7	6.9	7.0	16.4	126.2	112.2	-	-	-
IPE 160	15.8	160	82	5.0	7.4	9.0	20.1	145.2	127.2	-	-	-
IPE 180	18.8	180	91	5.3	8.0	9.0	23.9	164.0	146.0	M 10	48	48
IPE 200	22.4	200	100	5.6	8.5	12.0	28.5	183.0	159.0	M 10	54	58
IPE 220	26.2	220	110	5.9	9.2	12.0	33.4	201.6	177.6	M 12	60	62
IPE 240	30.7	240	120	6.2	9.8	15.0	39.1	220.4	190.4	M 12	66	68
IPE 270	36.1	270	135	6.6	10.2	15.0	45.9	249.6	219.6	M 16	72	72
IPE 300	42.2	300	150	7.1	10.7	15.0	53.8	278.6	248.6	M 16	72	86
IPE 330	49.1	330	160	7.5	11.5	18.0	62.6	307.0	271.0	M 16	78	96
IPE 360	57.1	360	170	8.0	12.7	18.0	72.7	334.6	298.6	M 22	88	88
IPE 400	66.3	400	180	8.6	13.5	21.0	84.5	373.0	331.0	M 22	96	98
IPE 450	77.6	450	190	9.4	14.6	21.0	98.8	420.8	378.8	M 24	100	102
IPE 500	90.7	500	200	10.2	16.0	21.0	116	468.0	426.0	M 24	102	112
IPE 550	106	550	210	11.1	17.2	24.0	134	515.6	467.6	M 24	110	122
IPE 600	122	600	220	12.0	19.0	24.0	156	562.0	514.0	M 27	116	118

Désignation Designation Bezeichnung	Valeurs statiques / Section properties / Statische Kennwerte										
	axe fort y-y strong axis y-y starke Achse y-y					axe faible z-z weak axis z-z schwache Achse z-z					
G kg/m	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mm x10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mm x10	s <sub>s</sub> mm	I <sub>t</sub> mm <sup>4</sup> x10 <sup>4</sup>	I <sub>w</sub> mm <sup>6</sup> x10 <sup>9</sup>	

IPE 80	6.0	80.1	20.0	3.24	3.58	8.49	3.69	1.05	20.1	0.70	0.12
IPE 100	8.1	171	34.2	4.07	5.08	15.9	5.79	1.24	23.7	1.20	0.35
IPE 120	10.4	318	53.0	4.90	6.31	27.7	8.65	1.45	25.2	1.74	0.89
IPE 140	12.9	541	77.3	5.74	7.64	44.9	12.3	1.65	26.7	2.45	1.98
IPE 160	15.8	869	109	6.58	9.66	68.3	16.7	1.84	30.3	3.60	3.96
IPE 180	18.8	1317	146	7.42	11.3	101	22.2	2.05	31.8	4.79	7.43
IPE 200	22.4	1943	194	8.26	14.0	142	28.5	2.24	36.7	6.98	13.0
IPE 220	26.2	2772	252	9.11	15.9	205	37.3	2.48	38.4	9.07	22.7
IPE 240	30.7	3892	324	9.97	19.1	284	47.3	2.69	43.4	12.9	37.4
IPE 270	36.1	5790	429	11.2	22.1	420	62.2	3.02	44.6	15.9	70.6
IPE 300	42.2	8356	557	12.5	25.7	604	80.5	3.35	46.1	20.1	126
IPE 330	49.1	11770	713	13.7	30.8	788	98.5	3.55	51.6	28.2	199
IPE 360	57.1	16270	904	15.0	35.1	1043	123	3.79	54.5	37.3	314
IPE 400	66.3	23130	1160	16.6	42.7	1318	146	3.95	60.2	51.1	490
IPE 450	77.6	33740	1500	18.5	50.9	1676	176	4.12	63.2	66.9	791
IPE 500	90.7	48200	1930	20.4	59.9	2142	214	4.31	66.8	89.3	1249
IPE 550	106	67120	2440	22.4	72.3	2668	254	4.45	73.6	123	1884
IPE 600	122	92080	3070	24.3	83.8	3387	308	4.66	78.1	165	2846

Poutrelles européennes à larges ailes

Dim.: HE A, HE B et HE M 100-1000 conformes à la norme antérieure EU 53-62; HE 1000 avec  $G_{HE} > G_{HEM}$  conformes à ASTM A 6/A 6M - 07

HE C conforme à PN-H-93452: 2005; HE AA 100-1000 suivant norme AM

Tolérances: EN 10034: 1993 HE 100 - 900; HE 1000 AA-M  
ASTM A 6/A 6M - 07 HE 1000 avec  $G_{HE} > G_{HEM}$

European wide flange beams

Dim.: HE A, HE B and HE M 100-1000 in accordance with former standard EU 53-62; HE 1000 with  $G_{HE} > G_{HEM}$  in accordance with ASTM A 6/A 6M - 07

Tolerances: EN 10034: 1993 HE 100 - 900; HE 1000 AA-M  
ASTM A 6/A 6M - 07 HE 1000 with  $G_{HE} > G_{HEM}$

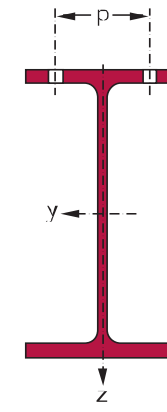
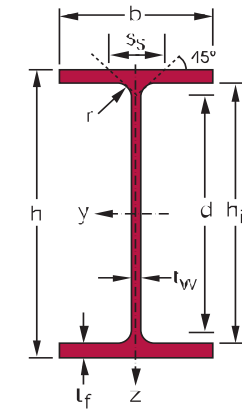
Surface condition: according to EN 10163-3: 2004, class C, subclass 1

Europäische Breitflanschträger

Abmessungen: HE A, HE B und HE M 100 - 1000 gemäß früherer Norm EU 53-62; HE 1000 mit  $G_{HE} > G_{HEM}$  gemäß ASTM A 6/A 6M - 07

Toleranzen: EN 10034: 1993 HE 100 - 900; HE 1000 AA-M  
ASTM A 6/A 6M - 07 HE 1000 mit  $G_{HE} > G_{HEM}$

Oberflächenbeschaffenheit: Gemäß EN 10163-3: 2004, Klasse C, Untergruppe 1



HE

Désignation Designation Bezeichnung	Dimensions Abmessungen						Dimensions de construction Dimensions for detailing Konstruktionsmaße					
	G	h	b	t <sub>w</sub>	t <sub>f</sub>	r	A	h <sub>i</sub>	d	Ø	P <sub>min</sub>	P <sub>max</sub>
	kg/m	mm	mm	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm	mm		mm	mm

HE 100 A	16,7	96	100	5	8	12	21.2	80	56	M 10	54	58
HE 100 B	20,4	100	100	6	10	12	26.0	80	56	M 10	56	58
HE 100 M	41,8	120	106	12	20	12	53.2	80	56	M 10	62	64
HE 120 A	19,9	114	120	5	8	12	25.3	98	74	M 12	58	68
HE 120 B	26,7	120	120	6.5	11	12	34.0	98	74	M 12	60	68
HE 120 M	52,1	140	126	12.5	21	12	66.4	98	74	M 12	66	74
HE 140 A	24,7	133	140	5.5	8.5	12	31.4	116	92	M 16	64	76
HE 140 B	33,7	140	140	7	12	12	43.0	116	92	M 16	66	76
HE 140 M	63,2	160	146	13	22	12	80.6	116	92	M 16	72	82
HE 160 A	30,4	152	160	6	9	15	38.8	134	104	M 20	78	84
HE 160 B	42,6	160	160	8	13	15	54.3	134	104	M 20	80	84
HE 160 M	76,2	180	166	14	23	15	97.1	134	104	M 20	86	90
HE 180 A	35,5	171	180	6	9.5	15	45.3	152	122	M 24	86	92
HE 180 B	51,2	180	180	8.5	14	15	65.3	152	122	M 24	88	92
HE 180 M	88,9	200	186	14.5	24	15	113.3	152	122	M 24	94	98
HE 200 A	42,3	190	200	6.5	10	18	53.8	170	134	M 27	98	100
HE 200 B	61,3	200	200	9	15	18	78.1	170	134	M 27	100	100
HE 200 M	103	220	206	15	25	18	131.3	170	134	M 27	106	106
HE 220 A	50,5	210	220	7	11	18	64.3	188	152	M 27	98	118
HE 220 B	71,5	220	220	9.5	16	18	91.0	188	152	M 27	100	118
HE 220 M	117	240	226	15.5	26	18	149.4	188	152	M 27	108	124
HE 240 A	60,3	230	240	7.5	12	21	76.8	206	164	M 27	104	138
HE 240 B	83,2	240	240	10	17	21	106.0	206	164	M 27	108	138
HE 240 M	157	270	248	18	32	21	199.6	206	164	M 27	116	146

Désignation Designation Bezeichnung	Valeurs statiques / Section properties / Statische Kennwerte												
	axe fort y-y strong axis y-y starke Achse y-y						axe faible z-z weak axis z-z schwache Achse z-z						
	G	I <sub>y</sub>	W <sub>el,y</sub>	W <sub>pl,y</sub> *	I <sub>y</sub>	A <sub>vz</sub>	I <sub>z</sub>	W <sub>el,z</sub>	W <sub>pl,z</sub> *	I <sub>z</sub>	s <sub>s</sub>	t <sub>t</sub>	t <sub>w</sub>
	kg/m	mm <sup>4</sup> x10 <sup>8</sup>	mm <sup>3</sup> x10 <sup>5</sup>	mm <sup>3</sup> x10 <sup>5</sup>	mm x10	mm <sup>2</sup> x10 <sup>2</sup>	mm <sup>4</sup> x10 <sup>8</sup>	mm <sup>3</sup> x10 <sup>5</sup>	mm <sup>3</sup> x10 <sup>5</sup>	mm x10	mm	mm <sup>4</sup> x10 <sup>8</sup>	mm <sup>6</sup> x10 <sup>9</sup>

HE 100 A	16.7	349.2	72.76	83.01	4.06	7.56	133.8	26.76	41.14	2.51	35.06	5.24	2.58
HE 100 B	20.4	449.5	89.91	104.2	4.16	9.04	167.3	33.45	51.42	2.53	40.06	9.25	3.38
HE 100 M	41.8	1143	190.4	235.8	4.63	18.04	399.2	75.31	116.3	2.74	66.06	68.21	9.93
HE 120 A	19.9	606.2	106.3	119.5	4.89	8.46	230.9	38.48	58.85	3.02	35.06	5.99	6.47
HE 120 B	26.7	864.4	144.1	165.2	5.04	10.96	317.5	52.92	80.97	3.06	42.56	13.84	9.41
HE 120 M	52.1	2018	288.2	350.6	5.51	21.15	702.8	111.6	171.6	3.25	68.56	91.66	24.79
HE 140 A	24.7	1033	155.4	173.5	5.73	10.12	389.3	55.62	84.85	3.52	36.56	8.13	15.06
HE 140 B	33.7	1509	215.6	245.4	5.93	13.08	549.7	78.52	119.8	3.58	45.06	20.06	22.48
HE 140 M	63.2	3291	411.4	493.8	6.39	24.46	1144	156.8	240.5	3.77	71.06	120.0	54.33
HE 160 A	30.4	1673	220.1	245.1	6.57	13.21	615.6	76.95	117.6	3.98	41.57	12.19	31.41
HE 160 B	42.6	2492	311.5	354.0	6.78	17.59	889.2	111.2	170.0	4.05	51.57	31.24	47.94
HE 160 M	76.2	5098	566.5	674.6	7.25	30.81	1759	211.9	325.5	4.26	77.57	162.4	108.1
HE 180 A	35.5	2510	293.6	324.9	7.45	14.47	924.6	102.7	156.5	4.52	42.57	14.80	60.21
HE 180 B	51.2	3831	425.7	481.4	7.66	20.24	1363	151.4	231.0	4.57	54.07	42.16	93.75
HE 180 M	88.9	7483	748.3	883.4	8.13	34.65	2580	277.4	425.2	4.77	80.07	203.3	199.3
HE 200 A	42.3	3692	388.6	429.5	8.28	18.08	1336	133.6	203.8	4.98	47.59	20.98	108.0
HE 200 B	61.3	5696	569.6	642.5	8.54	24.83	2003	200.3	305.8	5.07	60.09	59.28	171.1
HE 200 M	103	10640	967.4	1135	9.00	41.03	3651	354.5	543.2	5.27	86.09	259.4	346.3
HE 220 A	50.5	5410	515.2	568.5	9.17	20.67	1955	177.7	270.6	5.51	50.09	28.46	193.3
HE 220 B	71.5	8091	735.5	827.0	9.43	27.92	2843	258.5	393.9	5.59	62.59	76.57	295.4
HE 220 M	117	14600	1217	1419	9.89	45.31	5012	443.5	678.6	5.79	88.59	315.3	572.7
HE 240 A	60.3	7763	675.1	744.6	10.05	25.18	2769	230.7	351.7	6.00	56.10	41.55	328.5
HE 240 B	83.2	11260	938.3	1053	10.31	33.23	3923	326.9	498.4	6.08	68.60	102.7	486.9
HE 240 M	157	24290	1799	2117	11.03	60.07	8153	657.5	1006	6.39	106.6	627.9	1152

	G	h	b	t <sub>w</sub>	t <sub>f</sub>	r	A	h <sub>i</sub>	d	Ø	P <sub>min</sub>	P <sub>max</sub>
	kg/m	mm	mm	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm	mm	mm	mm	mm
HE 260 A	68,2	250	260	7.5	12.5	24	86.8	225	177	M 27	110	158
HE 260 B	93.0	260	260	10	17.5	24	118.4	225	177	M 27	114	158
HE 260 M	172	290	268	18	32.5	24	219.6	225	177	M 27	122	166
HE 280 A	76,4	270	280	8	13	24	97.3	244	196	M 27	112	178
HE 280 B	103	280	280	10.5	18	24	131.4	244	196	M 27	114	178
HE 280 M	189	310	288	18.5	33	24	240.2	244	196	M 27	122	186
HE 300 A	88,3	290	300	8.5	14	27	112.5	262	208	M 27	118	198
HE 300 B	117	300	300	11	19	27	149.1	262	208	M 27	120	198
HE 300 M	238	340	310	21	39	27	303.1	262	208	M 27	132	208
HE 320 A	97,6	310	300	9	15.5	27	124.4	279	225	M 27	118	198
HE 320 B	127	320	300	11.5	20.5	27	161.3	279	225	M 27	122	198
HE 320 M	245	359	309	21	40	27	312.0	279	225	M 27	132	204
HE 340 A	105	330	300	9.5	16.5	27	133.5	297	243	M 27	118	198
HE 340 B	134	340	300	12	21.5	27	170.9	297	243	M 27	122	198
HE 340 M	248	377	309	21	40	27	315.8	297	243	M 27	132	204
HE 360 A	112	350	300	10	17.5	27	142.8	315	261	M 27	120	198
HE 360 B	142	360	300	12.5	22.5	27	180.6	315	261	M 27	122	198
HE 360 M	250	395	308	21	40	27	318.8	315	261	M 27	132	204
HE 400 A	125	390	300	11	19	27	159.0	352	298	M 27	120	198
HE 400 B	155	400	300	13.5	24	27	197.8	352	298	M 27	124	198
HE 400 M	256	432	307	21	40	27	325.8	352	298	M 27	132	202
HE 450 A	140	440	300	11.5	21	27	178.0	398	344	M 27	122	198
HE 450 B	171	450	300	14	26	27	218.0	398	344	M 27	124	198
HE 450 M	263	478	307	21	40	27	335.4	398	344	M 27	132	202
HE 500 A	155	490	300	12	23	27	197.5	444	390	M 27	122	198
HE 500 B	187	500	300	14.5	28	27	238.6	444	390	M 27	124	198
HE 500 M	270	524	306	21	40	27	344.3	444	390	M 27	132	202
HE 550 A	166	540	300	12.5	24	27	211.8	492	438	M 27	122	198
HE 550 B	199	550	300	15	29	27	254.1	492	438	M 27	124	198
HE 550 M	278	572	306	21	40	27	354.4	492	438	M 27	132	202
HE 600 A	178	590	300	13	25	27	226.5	540	486	M 27	122	198
HE 600 B	212	600	300	15.5	30	27	270.0	540	486	M 27	126	198
HE 650 A	190	640	300	13.5	26	27	241.6	588	534	M 27	124	198
HE 650 B	225	650	300	16	31	27	286.3	588	534	M 27	126	198
HE 650 M	293	668	305	21	40	27	373.7	588	534	M 27	132	200
HE 700 A	204	690	300	14.5	27	27	260.5	636	582	M 27	124	198
HE 700 B	241	700	300	17	32	27	306.4	636	582	M 27	126	198
HE 700 M	301	716	304	21	40	27	383.0	636	582	M 27	132	200
HE 800 A	224	790	300	15	28	30	285.8	734	674	M 27	130	198
HE 800 B	262	800	300	17.5	33	30	334.2	734	674	M 27	134	198
HE 800 M	317	814	303	21	40	30	404.3	734	674	M 27	138	198
HE 900 A	252	890	300	16	30	30	320.5	830	770	M 27	132	198
HE 900 B	291	900	300	18.5	35	30	371.3	830	770	M 27	134	198
HE 900 M	333	910	302	21	40	30	423.6	830	770	M 27	138	198
HE 1000 A	272	990	300	16.5	31	30	346.8	928	868	M 27	132	198
HE 1000 B	314	1000	300	19	36	30	400.0	928	868	M 27	134	198
HE 1000 M	349	1008	302	21	40	30	444.2	928	868	M 27	138	198

	G	I <sub>y</sub>	W <sub>el,y</sub>	W <sub>pl,y</sub> *	I <sub>y</sub>	A <sub>vz</sub>	I <sub>z</sub>	W <sub>el,z</sub>	W <sub>pl,z</sub> *	I <sub>z</sub>	s <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>
	kg/m	mm <sup>4</sup> x10 <sup>8</sup>	mm <sup>3</sup> x10 <sup>5</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm x10	mm <sup>2</sup> x10 <sup>2</sup>	mm <sup>4</sup> x10 <sup>8</sup>	mm <sup>3</sup> x10 <sup>5</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm x10	mm	mm <sup>4</sup> x10 <sup>8</sup>	mm <sup>6</sup> x10 <sup>9</sup>
HE 260 A	68.2	10450	836.4	919.8	10.97	28.76	3668	282.1	430.2	6.50	60.62	52.37	516.4
HE 260 B	93.0	14920	1148	1283	11.22	37.59	5135	395.0	602.2	6.58	73.12	123.8	753.7
HE 260 M	172	31310	2159	2524	11.94	66.89	10450	779.7	1192	6.90	111.1	719.0	1728
HE 280 A	76.4	13670	1013	1112	11.86	31.74	4763	340.2	518.1	7.00	62.12	62.10	785.4
HE 280 B	103	19270	1376	1534	12.11	41.09	6595	471.0	717.6	7.09	74.62	143.7	1130
HE 280 M	189	39550	2551	2966	12.83	72.03	13160	914.1	1397	7.40	112.6	807.3	2520
HE 300 A	88.3	18260	1260	1383	12.74	37.28	6310	420.6	641.2	7.49	68.13	85.17	1200
HE 300 B	117	25170	1678	1869	12.99	47.43	8563	570.9	870.1	7.58	80.63	185.0	1688
HE 300 M	238	59200	3482	4078	13.98	90.53	19400	1252	1913	8.00	130.6	1408	4386
HE 320 A	97.6	22930	1479	1628	13.58	41.13	6985	465.7	709.7	7.49	71.63	108.0	1512
HE 320 B	127	30820	1926	2149	13.82	51.77	9239	615.9	939.1	7.57	84.13	225.1	2069
HE 320 M	245	68130	3796	4435	14.78	94.85	19710	1276	1951	7.95	132.6	1501	5004
HE 340 A	105	27690	1678	1850	14.40	44.95	7436	495.7	755.9	7.46	74.13	127.2	1824
HE 340 B	134	36660	2156	2408	14.65	56.09	9690	646.0	985.7	7.53	86.63	257.2	2454
HE 340 M	248	76370	4052	4718	15.55	98.63	19710	1276	1953	7.90	132.6	1506	5584
HE 360 A	112	33090	1891	2088	15.22	48.96	7887	525.8	802.3	7.43	76.63	148.8	2177
HE 360 B	142	43190	2400	2683	15.46	60.60	10140	676.1	1032	7.49	89.13	292.5	2883
HE 360 M	250	84870	4297	4989	16.32	102.4	19520	1268	1942	7.83	132.6	1507	6137
HE 400 A	125	45070	2311	2562	16.84	57.33	8564	570.9	872.9	7.34	80.63	189.0	2942
HE 400 B	155	57680	2884	3232	17.08	69.98	10820	721.3	1104	7.40	93.13	355.7	3817
HE 400 M	256	104100	4820	5571	17.88	110.2	19340	1260	1934	7.70	132.6	1515	7410
HE 450 A	140	63720	2896	3216	18.92	65.78	9465	631.0	965.5	7.29	85.13	243.8	4148
HE 450 B	171	79890	3551	3982	19.14	79.66	11720	781.4	1198	7.33	97.63	440.5	5258
HE 450 M	263	131500	5501	6331	19.80	119.8	19340	1260	1939	7.59	132.6	1529	9251
HE 500 A	155	86970	3550	3949	20.98	74.72	10370	691.1	1059	7.24	89.63	309.3	5643
HE 500 B	187	107200	4287	4815	21.19	89.82	12620	841.6	1292	7.27	102.1	538.4	7018
HE 500 M	270	161900	6180	7094	21.69	129.5	19150	1252	1932	7.46	132.6	1539	11190
HE 550 A	166	111900	4146	4622	22.99	83.72	10820	721.3	1107	7.15	92.13	351.5	7189
HE 550 B	199	136700	4971	5591	23.20	100.1	13080	871.8	1341	7.17	104.6	600.3	8856
HE 550 M	278	198000	6923	7933	23.64	139.6	19160	1252	1937	7.35	132.6	1554	13520
HE 600 A	178	141200	4787	5350	24.97	93.21	11270	751.4	1156	7.05	94.63	397.8	8978
HE 600 B	212	171000	5701	6425	25.17	110.8	13530	902.0	1391	7.08	107.1	667.2	10970
HE 650 A	190	175200	5474	6136	26.93	103.2	11720	781.6	1205	6.97	97.13	448.3	11030
HE 650 B	225	210600	6480	7320	27.12	122.0	13980	932.3	1441	6.99	109.6	739.2	13360
HE 650 M	293	281700	8433	9657	27.45	159.7	18980	1245	1936	7.13	132.6	1579	18650
HE 700 A	204	215300	6241	7032	28.75	117.0	12180	811.9	1257	6.84	100.1	513.9	13350
HE 700 B	241	256900	7340	8327	28.96	137.1	14440	962.7	1495	6.87	112.6	830.9	16060
HE 700 M	301	329300	9198	10540	29.32	169.8	18800	1240	1929	7.01	132.6	1589	21400
HE 800 A	224	303400	7682	8699	32.58	138.8	12640	842.6	1312	6.65	106.1	596.9	18290
HE 800 B	262	359100	8977	10230	32.78	161.8	14900	993.6	1553	6.68	118.6	946.0	21840
HE 800 M	317	442600	10870	12490	33.09	194.3	18630	1230	1930	6.79	136.1	1646	27780
HE 900 A	252	422100	9485	10810	36.29	163.3	13550	903.2	1414	6.50	111.1	736.8	24960
HE 900 B	291	494100	10980	12580	36.48	188.8	15820	1050	1658	6.53	123.6	1137	29460
HE 900 M	333	570400	12540	14440	36.70	214.4	18450	1220	1929	6.60	136.1	1671	34750
HE 1000 A	272	553800	11190	12820	39.96	184.6	14000	933.6	1470	6.35	113.6	822.4	32070
HE 1000 B	314	644700	12890	14860									

Fers U à ailes parallèles

Dimensions: DIN 1026-2: 2002-10

Tolérances: EN 10279: 2000

Etat de surface: conforme à EN 10163-3: 2004, classe C, sous-classe 1

Channels with parallel flanges

Dimensions: DIN 1026-2: 2002-10

Tolerances: EN 10279: 2000

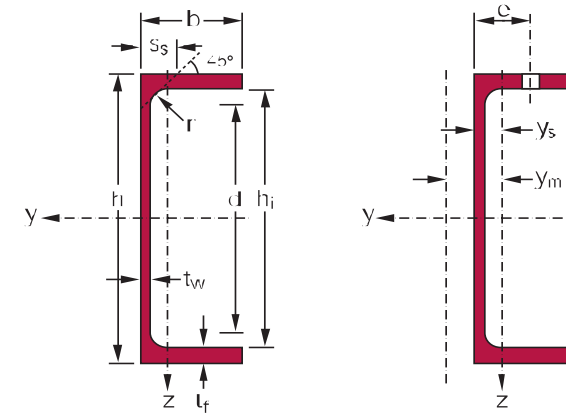
Surface condition: according to EN 10163-3: 2004, class C, subclass 1

U-Profil mit parallelen Flanschen

Abmessungen: DIN 1026-2: 2002-10

Toleranzen: EN 10279: 2000

Oberflächenbeschaffenheit: Gemäß EN 10163-3: 2004, Klasse C, Untergruppe 1



# UPE

Désignation Designation Bezeichnung	Dimensions Abmessungen						Dimensions de construction Dimensions for detailing Konstruktionsmaße					
	G	h	b	t <sub>w</sub>	t <sub>f</sub>	r	A	h <sub>i</sub>	d	Ø	e <sub>min</sub>	e <sub>max</sub>
	kg/m	mm	mm	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm	mm		mm	mm

UPE 80	7.90	80	50	4.0	7.0	10	10.1	66	46	-	-	-
UPE 100	9.82	100	55	4.5	7.5	10	12.5	85	65	M 12	35	36
UPE 120	12.1	120	60	5.0	8.0	12	15.4	104	80	M 12	35	41
UPE 140	14.5	140	65	5.0	9.0	12	18.4	122	98	M 16	35	38
UPE 160	17.0	160	70	5.5	9.5	12	21.7	141	117	M 16	36	43
UPE 180	19.7	180	75	5.5	10.5	12	25.1	159	135	M 16	36	48
UPE 200	22.8	200	80	6.0	11.0	13	29.0	178	152	M 20	46	47
UPE 220	26.6	220	85	6.5	12.0	13	33.9	196	170	M 22	47	49
UPE 240	30.2	240	90	7.0	12.5	15	38.5	215	185	M 24	47	51
UPE 270	35.2	270	95	7.5	13.5	15	44.8	243	213	M 27	48	50
UPE 300	44.4	300	100	9.5	15.0	15	56.6	270	240	M 27	50	55
UPE 330	53.2	330	105	11.0	16.0	18	67.8	298	262	M 27	54	60
UPE 360	61.2	360	110	12.0	17.0	18	77.9	326	290	M 27	55	65
UPE 400	72.2	400	115	13.5	18.0	18	91.9	364	328	M 27	57	70

Désignation Designation Bezeichnung	Valeurs statiques / Section properties / Statische Kennwerte														
	axe fort y-y strong axis y-y starke Achse y-y							axe faible z-z weak axis z-z schwache Achse z-z							
	G	I <sub>y</sub>	W <sub>el,y</sub>	W <sub>pl,y</sub>	I <sub>y</sub>	A <sub>vz</sub>	I <sub>z</sub>	W <sub>el,z</sub>	W <sub>pl,z'</sub>	I <sub>z</sub>	s <sub>s</sub>	t	l <sub>w</sub>	y <sub>s</sub>	y <sub>m</sub>
	kg/m	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm x10	mm <sup>2</sup> x10 <sup>2</sup>	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm x10	mm	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>6</sup> x10 <sup>9</sup>	mm x10	mm x10

UPE 80	7.90	107	26.8	31.2	3.26	4.05	25.5	8.0	14.3	1.59	16.9	1.47	0.22	1.82	3.71
UPE 100	9.82	207	41.4	48.0	4.07	5.34	38.3	10.6	19.3	1.75	17.9	2.01	0.53	1.91	3.93
UPE 120	12.1	364	60.6	70.3	4.86	7.18	55.5	13.8	25.3	1.90	20.0	2.90	1.12	1.98	4.12
UPE 140	14.5	600	85.6	98.8	5.71	8.25	78.8	18.2	33.2	2.07	21.0	4.05	2.20	2.17	4.54
UPE 160	17.0	911	114	132	6.48	10.0	107	22.6	41.5	2.22	22.0	5.20	3.96	2.27	4.76
UPE 180	19.7	1350	150	173	7.34	11.2	144	28.6	52.3	2.39	23.0	6.99	6.81	2.47	5.19
UPE 200	22.8	1910	191	220	8.11	13.5	187	34.5	63.3	2.54	24.6	8.89	11.0	2.56	5.41
UPE 220	26.6	2680	244	281	8.90	15.8	247	42.5	78.2	2.70	26.1	12.1	17.6	2.70	5.70
UPE 240	30.2	3600	300	347	9.67	18.8	311	50.1	92.2	2.84	28.3	15.1	26.4	2.79	5.91
UPE 270	35.2	5250	389	451	10.8	22.2	401	60.7	112	2.99	29.8	19.9	43.6	2.89	6.14
UPE 300	44.4	7820	522	613	11.8	30.3	538	75.6	137	3.08	33.3	31.5	72.7	2.89	6.03
UPE 330	53.2	11010	667	792	12.7	38.8	681	89.7	156	3.17	37.5	45.2	112	2.90	6.00
UPE 360	61.2	14830	824	982	13.8	45.6	844	105	178	3.29	39.5	58.5	166	2.97	6.12
UPE 400	72.2	20980	1050	1260	15.1	56.2	1045	123	191	3.37	42.0	79.1	259	2.98	6.06