

## PROFIL "U"

### PROFIL "U" LAMINAT LA CALD

Simbol profil	DIMENSIUNI				Aria secțiunii cm <sup>2</sup>	Masa liniară kg/m
	h	b	d	t		
U-50	50	38	5	7.0	7.12	5.59
U-65	65	42	5.5	7.5	9.03	7.09
U-80	80	45	6	8.0	11.0	8.64
U-100	100	50	6	8.5	13.5	10.6
U-120	120	55	7	9.0	17.0	13.4
U-140	140	60	7	10	20.4	16.4
U-160	160	65	7.5	10.5	24.0	18.4
U-180	180	70	8	11.0	28.0	22.0
U-200	200	75	8.5	11.5	32.2	25.3
U-220	220	80	9	12.5	37.4	29.4
U-240	240	85	9.5	13.0	42.3	33.2
U-260	260	90	10	13.6	48.3	37.9
U-280	280	95	10	15.0	53.3	41.8
U-300	300	100	10	16.0	58.8	46.2

### PROFIL "U" FORMAT LA RECE

DIMENSIUNI		
h	b	q
40	20-45	2 - 4
55	25-55	2
60	25-60	2 - 6
70	25	2
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320	120	7

### PROFIL "T" cu muchii rotunjite

Simbol profil	DIMENSIUNI		Aria secțiunii S (cm <sup>2</sup> )	Masa liniară (kg/m)
	b = h	a		
T 3	30	4	2.26	1.77
T 4	40	5	3.77	2.96
T 5	50	6	5.66	4.44

Normă de execuție EN 10055  
 Lungimi: până la 6 m ±100 mm.

## PROFIL "INP"

Normă de execuție EN 10034

Greutatile precizate in acest tabel sunt determinate prin calcul tehnic.

Simbol profil	DIMENSIUNI				Aria secțiunii cm <sup>2</sup>	Masa liniară kg/m
	h	b	d	t		
I-8	80	42	3.9	5.9	7.58	5.95
I-10	100	50	4.5	6.9	10.6	8.32
I-12	120	58	5.1	7.7	14.2	11.2
I-14	140	66	5.7	8.6	18.2	14.3
I-16	160	74	6.3	9.5	22.8	17.9
I-18	180	82	6.9	10.4	27.9	21.9
I-20	200	90	7.5	11.3	33.5	26.3
I-22	220	98	8.1	12.2	39.6	31.1
I-24	240	106	8.9	13.1	46.1	36.2
I-26	260	113	9.4	14.1	53.3	41.9
I-28	280	119	10.1	15.2	61.0	47.9
I-30	300	125	10.8	16.2	69.0	54.2

## PROFIL "IPE"

Norma de execuție: EN 10034

Greutatile precizate in acest tabel sunt determinate prin calcul tehnic.

Simbol	Dimensiuni									Suprafață	
	G kg/m	h mm	b mm	a mm	e mm	r mm	A cm <sup>2</sup>	hi mm	h1 mm	AL m <sup>2</sup> /m	AG m <sup>2</sup> /t
IPE 80	6	80	46	3.8	5.2	5	7.64	69.6	59.6	0.328	54.64
IPE 100	8.1	100	55	4.1	5.7	7	10.32	88.6	74.6	0.4	49.33
IPE 120	10.4	120	64	4.4	6.3	7	13.21	107.4	93.4	0.475	45.82
IPE 140	12.9	140	73	4.7	6.9	7	16.43	126.2	112.2	0.551	42.7
IPE 160	15.8	160	82	5	7.4	9	20.09	145.2	127.2	0.623	39.47
IPE 180	18.8	180	91	5.3	8	9	23.95	164	146	0.698	37.13
IPE 200	22.4	200	100	5.6	8.5	12	28.48	183	159	0.768	34.36
IPE 220	26.2	220	110	5.9	9.2	12	33.37	201.6	177.6	0.848	32.36
IPE 240	30.7	240	120	6.2	9.8	15	39.12	220.4	190.4	0.922	30.02
IPE 270	36.1	270	135	6.6	10.2	15	45.95	249.6	219.6	1.041	28.86
IPE 300	42.2	300	150	7.1	10.7	15	53.81	278.6	248.6	1.16	27.46
IPE 330	49.1	330	160	7.5	11.5	18	62.61	307	271	1.254	25.52
IPE 360	57.1	360	170	8	12.7	18	72.73	334.6	298.6	1.353	23.7
IPE 400	66.3	400	180	8.6	13.5	21	84.46	373	331	1.467	22.12
IPE 450	77.6	450	190	9.4	14.6	21	98.82	420.8	378.8	1.605	20.69
IPE 500	90.7	500	200	10.2	16	21	115.52	468	426	1.744	19.23
IPE 550	105.5	550	210	11.1	17.2	24	134.42	515.6	467.6	1.877	17.78
IPE 600	122.4	600	220	12	19	24	155.98	562	514	2.015	16.45

## PROFIL "IPE/A"

Norma de execuție: EN 10034

Greutatile precizate in acest tabel sunt determinate prin calcul tehnic.

Simbol	Dimensiuni									Suprafață	
	G kg/m	h mm	b mm	a mm	e mm	r mm	A cm <sup>2</sup>	hi mm	h1 mm	AL m <sup>2</sup> /m	AG m <sup>2</sup> /t
IPE A 80	5	78	46	3.3	4.2	5	6.38	69.6	59.6	0.325	64.9
IPE A 100	6.9	98	55	3.6	4.7	7	8.78	88.6	74.6	0.397	57.57
IPE A 120	8.7	117.6	64	3.8	5.1	7	11.03	107.4	93.4	0.472	54.47
IPE A 140	10.5	137.4	73	3.8	5.6	7	13.39	126.2	112.2	0.547	52.05
IPE A 160	12.7	157	82	4	5.9	9	16.18	145.2	127.2	0.619	48.7

IPE A 180	15.4	177	91	4.3	6.5	9	19.58	164	146	0.694	45.15
IPE A 200	18.4	197	100	4.5	7	12	23.47	183	159	0.764	41.49
IPE A 220	22.2	217	110	5	7.7	12	28.26	201.6	177.6	0.843	38.02
IPE A 240	26.2	237	120	5.2	8.3	15	33.31	220.4	190.4	0.918	35.1
IPE A 270	30.7	267	135	5.5	8.7	15	39.15	249.6	219.6	1.037	33.75
IPE A 300	36.5	297	150	6.1	9.2	15	46.53	278.6	248.6	1.156	31.65
IPE A 330	43	327	160	6.5	10	18	54.74	307	271	1.25	29.09
IPE A 360	50.2	357.6	170	6.6	11.5	18	63.96	334.6	298.6	1.351	26.91
IPE A 400	57.4	397	180	7	12	21	73.1	373	331	1.464	25.51
IPE A 450	67.2	447	190	7.6	13.1	21	85.55	420.8	378.8	1.603	23.87
IPE A 500	79.4	497	200	8.4	14.5	21	101.1	468	426	1.741	21.94
IPE A 550	92.1	547	210	9	15.7	24	117.29	515.6	467.6	1.875	20.36
IPE A 600	107.6	597	220	9.8	17.5	24	137.02	562	514	2.013	18.72

### EUROPROFIL "HEA"

Norma de executie: EN 10034  
 Greutatile precizate in acest tabel sunt determinate prin calcul tehnic.

Simbol	Dimensiuni								Valori statice axa y-y		Valori statice axa z-z	
	G kg/m	h mm	b mm	a mm	e mm	r mm	A cm <sup>2</sup>	h1 mm	I <sub>y</sub> cm <sup>4</sup>	W <sub>y</sub> cm <sup>3</sup>	I <sub>z</sub> cm <sup>4</sup>	W <sub>z</sub> cm <sup>3</sup>
HEA 100	16.7	96	100	5	8	12	21.24	56	349.2	73	133.8	26.8
HEA 120	19.9	114	120	5	8	12	25.34	74	606.2	106.3	230.9	38.5
HEA 140	24.7	133	140	5.5	8.5	12	31.42	92	1033	155.4	389.3	55.6
HEA 160	30.4	152	160	6	9	15	38.77	104	1673	220.1	615.6	76.9
HEA 180	35.5	171	180	6	9.5	15	45.25	122	2510	293.6	924.6	102.7
HEA 200	42.3	190	200	6.5	10	18	53.83	134	3692	388.6	1336	133.6
HEA 220	50.5	210	220	7	11	18	64.34	152	5410	515.2	1955	177.7
HEA 240	60.3	230	240	7.5	12	21	76.84	164	7763	675.1	2769	230.7
HEA 260	68.2	250	260	7.5	12.5	24	86.82	177	10450	836.4	3668	282.1
HEA 280	76.4	270	280	8	13	24	97.26	196	13670	1013	4763	340.2
HEA 300	88.3	290	300	8.5	14	27	112.5	208	18260	1260	6310	420.6
HEA 320	97.6	310	300	9	15.5	27	124.4	225	22930	1479	6985	465.7
HEA 340	104.8	330	300	9.5	16.5	27	133.5	243	27690	1678	7436	495.7
HEA 360	112.1	350	300	10	17.5	27	142.8	261	33090	1891	7887	525.8
HEA 400	124.8	390	300	11	19	27	159	298	45070	2311	8564	570.9
HEA 450	139.8	440	300	11.5	21	27	178	344	63720	2896	9465	631
HEA 500	155.1	490	300	12	23	27	197.5	390	86970	3550	10370	691.1
HEA 550	166.2	540	300	12.5	24	27	211.8	438	111900	4146	10820	721.3
HEA 600	177.8	590	300	13	25	27	226.5	486	141200	4787	11270	751.4
HEA 650	189.7	640	300	13.5	26	27	241.6	534	175200	5474	11720	781.6
HEA 700	204.5	690	300	14.5	27	27	260.5	582	215300	6241	12180	811.9
HEA 800	224.4	790	300	15	28	30	285.8	674	303400	7682	12640	842.6
HEA 900	251.6	890	300	16	30	30	320.5	770	422100	9485	13550	903.2
HEA 1000	272.3	990	300	16.5	31	30	346.8	868	553800	11190	14000	933.6

### EUROPROFIL "HEB"

Norma de executie: EN 10034  
 Greutatile precizate in acest tabel sunt determinate prin calcul tehnic.

Simbol	Dimensiuni								Valori statice axa y-y		Valori statice axa z-z	
	G kg/m	h mm	b mm	a mm	e mm	r mm	A cm <sup>2</sup>	h1 mm	I <sub>y</sub> cm <sup>4</sup>	W <sub>y</sub> cm <sup>3</sup>	I <sub>z</sub> cm <sup>4</sup>	W <sub>z</sub> cm <sup>3</sup>
HEB 100	20.4	100	100	6	10	12	26.04	56	449.5	90	167.3	33.5
HEB 120	26.7	120	120	6.5	11	12	34.01	74	864.4	144.1	317.5	52.9
HEB 140	33.7	140	140	7	12	12	42.96	92	1509	215.6	549.7	78.5

HEB 160	42.6	160	160	8	13	15	54.25	104	2492	311.5	889.2	111.2
HEB 180	51.2	180	180	8.5	14	15	65.25	122	3831	425.7	1363	151.4
HEB 200	61.3	200	200	9	15	18	78.08	134	5696	569.6	2003	200.3
HEB 220	71.5	220	220	9.5	16	18	91.04	152	8091	735.5	2843	258.5
HEB 240	83.2	240	240	10	17	21	106	164	11260	938.3	3923	326.9
HEB 260	93	260	260	10	17.5	24	118.4	177	14920	1148	5135	395
HEB 280	103.1	280	280	10.5	18	24	131.4	196	19270	1376	6595	471
HEB 300	117	300	300	11	19	27	149.1	208	25170	1678	8563	570.9
HEB 320	126.7	320	300	11.5	20.5	27	161.3	225	30820	1926	9239	615.9
HEB 340	134.2	340	300	12	21.5	27	170.9	243	36660	2156	9690	646
HEB 360	141.8	360	300	12.5	22.5	27	180.6	261	43190	2400	10140	676.1
HEB 400	155.3	400	300	13.5	24	27	197.8	298	57680	2884	10820	721.3
HEB 450	171.1	450	300	14	26	27	218	344	79890	3551	11720	781.4
HEB 500	187.3	500	300	14.5	28	27	238.6	390	107200	4287	12620	841.6
HEB 550	199.4	550	300	15	29	27	254.1	438	136700	4971	13080	871.8
HEB 600	211.9	600	300	15.5	30	27	270	486	171000	5701	13530	902
HEB 650	224.8	650	300	16	31	27	286.3	534	210600	6480	13980	932.3
HEB 700	240.5	700	300	17	32	27	306.4	582	256900	7340	14440	962.7
HEB 800	262.3	800	300	17.5	33	30	334.2	674	359100	8977	14900	993.6
HEB 900	291.5	900	300	18.5	35	30	371.3	770	494100	10980	15820	1054
HEB 1000	314	1000	300	19	36	30	400	868	644700	12890	16280	1085

### EUROPROFIL "HEM"

Norma de executie: 10034

Greutatile precizate in acest tabel sunt determinate prin calcul tehnic.

Simbol	Dimensiuni								Valori statice axa y-y		Valori statice axa z-z	
	G kg/m	h mm	b mm	a mm	e mm	r mm	A cm <sup>2</sup>	h1 mm	Iy cm <sup>4</sup>	Wy cm <sup>3</sup>	Iz cm <sup>4</sup>	Wz cm <sup>3</sup>
HEM 100	41.8	120	106	12	20	12	53.24	56	1142.6	190.4	399.2	75.3
HEM 120	52.1	140	126	12.5	21	12	66.41	74	2018	288.2	702.8	111.6
HEM 140	63.2	160	146	13	22	12	80.56	92	3291	411.4	1144.3	156.8
HEM 160	76.2	180	166	14	23	15	97.05	104	5098	566.5	1759	211.9
HEM 180	88.9	200	186	14.5	24	15	113.3	122	7483	748.3	2580	277.4
HEM 200	103.1	220	206	15	25	18	131.3	134	10640	967.4	3651	354.5
HEM 220	117.3	240	226	15.5	26	18	149.4	152	14600	1217	5012	443.5
HEM 240	156.7	270	248	18	32	21	199.6	164	24290	1799	8153	657.5
HEM 260	172.4	290	268	18	32.5	24	219.6	177	31310	2159	10450	779.7
HEM 280	188.5	310	288	18.5	33	24	240.2	196	39550	2551	13160	914.1
HEM 300	237.9	340	310	21	39	27	303.1	208	59200	3482	19400	1252
HEM 320	245	359	309	21	40	27	312	225	68130	3796	19710	1276
HEM 340	247.9	377	309	21	40	27	315.8	243	76370	4052	19710	1276
HEM 360	250.3	395	308	21	40	27	318.8	261	84870	4297	19520	1268
HEM 400	255.7	432	307	21	40	27	325.8	298	104100	4820	19340	1260
HEM 450	263.3	478	307	21	40	27	335.4	344	131500	5501	19340	1260
HEM 500	270.3	524	306	21	40	27	344.3	390	161900	6180	19150	1252
HEM 550	278.2	572	306	21	40	27	354.4	438	198000	6923	19160	1252
HEM 600	285.5	620	305	21	40	27	363.7	486	237400	7660	18980	1244
HEM 650	293.4	668	305	21	40	27	373.7	534	281700	8433	18980	1245
HEM 700	300.7	716	304	21	40	27	383	582	329300	9198	18800	1237
HEM 800	317.3	814	303	21	40	30	404.3	674	442600	10870	18630	1230
HEM 900	332.5	910	302	21	40	30	423.6	770	570400	12540	18450	1222
HEM 1000	348.7	1008	302	21	40	30	444.2	868	722300	14330	18460	1222