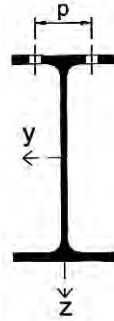
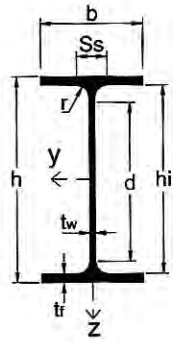


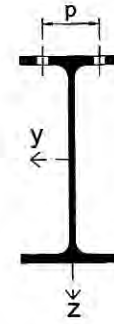
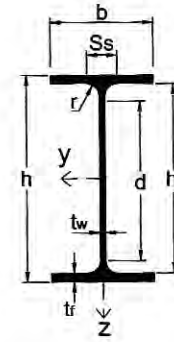
Επεξηγηματικά Σύμβολα Πινάκων

G	Βάρος ανά τρέχον μέτρο	e_{max}	Μέγιστη απόσταση οπής από το άκρο της διατομής
h	Ύψος διατομής ή σκέλος γωνιακού	y_m	Θέση κέντρου διάτμησης
b	Πλάτος πελμάτων ή σκέλος γωνιακού	t	Πάχος γωνιακού
t_w	Πάχος κορμού	z_s, y_s	Θέση κέντρου βάρους
t_f	Πάχος πελμάτων	A_{net}	Καθαρή διατομή
r	Ακτίνα συναρμογής	I_{yz}	Γινόμενο αδρανείας σε γωνιακά
A	Εμβαδόν διατομής	I_v, I_u	Ροπή αδρανείας περί τους κύριους άξονες σε γωνιακά
h_i	Καθαρό ύψος μεταξύ των πελμάτων	i_v, i_u	Αντίστοιχες ακτίνες αδρανείας
d	Ευθύγραμμο μήκος κορμού	v_1, v_2, u_1, u_2, u_3	Αποστάσεις ακραίων σημείων διατομής από τους κύριους κεντροβαρικούς άξονες
\emptyset	Διάμετρος οπής	α	Γωνία μεταξύ κυρίων αξόνων και αξόνων παράλληλων προς τα σκέλη
ρ_{min}	Ελάχιστη απόσταση μεταξύ οπών	d_1, d_2	Διάμετρος οπών σε γωνιακά
ρ_{max}	Μέγιστη απόσταση μεταξύ οπών		
A_L	Παράπλευρη επιφάνεια μέλους ανά μέτρο μήκους του		
A_G	Παράπλευρη επιφάνεια μέλους ανά τόνο βάρους		
I_y	Ροπή αδρανείας περί τον άξονα y-y		
$W_{el,y}$	Ελαστική ροπή αντίστασης περί τον άξονα y-y		
$W_{pl,y}$	Πλαστική ροπή αντίστασης περί τον άξονα y-y		
i_y	Ακτίνα αδρανείας περί τον άξονα y-y		
A_{vz}	Επιφάνεια διάτμησης		
I_z	Ροπή αδρανείας περί τον άξονα z-z		
$W_{el,z}$	Ελαστική ροπή αντίστασης περί τον άξονα z-z		
$W_{pl,z}$	Πλαστική ροπή αντίστασης περί τον άξονα z-z		
i_z	Ακτίνα αδρανείας περί τον άξονα z-z		
S_s	Άκαμπτο μήκος πέλματος		
I_t	Σταθερά στρέψης		
I_w	Σταθερά στρέβλωσης		
e_{min}	Ελάχιστη απόσταση οπής από το άκρο της διατομής		

Σειρά IPE



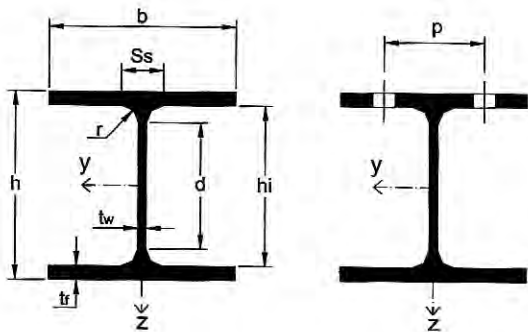
Σειρά IPE



Τύπος Διατομής	G kg/m	h mm	b mm	tw mm	tr mm	r mm	A cm ²	hi mm	d mm	∅	ρmin mm	ρmax mm	AL m ² /m	AG m ² /ft
IPE 100	8.1	100	55	4.1	5.7	7	10.32	88.6	74.6	-	-	-	0.400	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	42.70
IPE 160	15.8	160	82	5.0	7.4	9	20.09	145.2	127.2	-	-	-	0.623	39.47
IPE 180	18.8	180	91	5.3	8.0	9	23.95	164.0	146.0	M10	48	48	0.698	37.13
IPE 200	22.4	200	100	5.6	8.5	12	28.48	183.0	159.0	M10	54	58	0.768	34.36
IPE 220	26.2	220	110	5.9	9.2	12	33.37	201.6	177.6	M12	60	62	0.848	32.36
IPE 240	30.7	240	120	6.2	9.8	15	39.12	220.4	190.4	M12	66	68	0.922	30.02
IPE 270	36.1	270	135	6.6	10.2	15	45.95	249.6	219.6	M16	72	72	1.041	28.86
IPE 300	42.2	300	150	7.1	10.7	15	53.81	278.6	248.6	M16	72	86	1.160	27.46
IPE 330	49.1	330	160	7.5	11.5	18	62.61	307.0	271.0	M16	78	96	1.254	25.52
IPE 360	57.1	360	170	8.0	12.7	18	72.73	334.6	298.6	M22	88	88	1.353	23.70
IPE 400	66.3	400	180	8.6	13.5	21	84.46	373.0	331.0	M22	96	98	1.467	22.12
IPE 450	77.6	450	190	9.4	14.6	21	98.82	420.8	378.8	M24	100	102	1.605	20.69
IPE 500	90.7	500	200	10.2	16.0	21	115.5	468.0	426.0	M24	102	112	1.744	19.23
IPE 550	106	550	210	11.1	17.2	24	134.4	515.6	467.6	M24	110	122	1.877	17.78
IPE 600	122	600	220	12.0	19.0	24	156.0	562.0	514.0	M27	116	118	2.015	16.45
IPE 750 x 147	147	753	265	13.2	17.0	17	187.5	719.0	685.0	M27	104	164	2.510	17.06
IPE 750 x 173	173	762	267	14.4	21.6	17	221.3	718.8	684.8	M27	104	166	2.534	14.58
IPE 750 x 196	196	770	268	15.6	25.4	17	250.8	719.2	685.2	M27	106	166	2.552	12.96

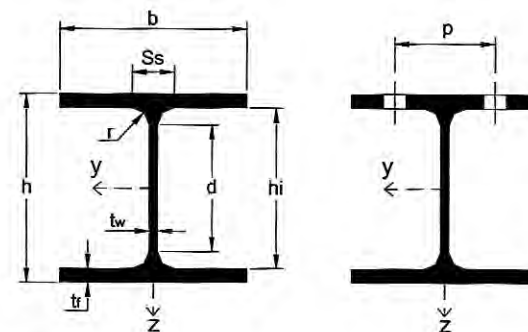
Τύπος Διατομής	Iy cm ⁴	W _{el,y} cm ³	W _{pl,y} cm ³	iy cm	Avz cm ²	Iz cm ⁴	W _{el,z} cm ³	W _{pl,z} cm ³	iz cm	Ss mm	Ii cm ⁴	Iw x 10 ⁻³ cm ⁶	Κατάταξη					
													Καθαρή Κάμψη			Καθαρή Θλίψη		
													2	3	4	2	3	4
IPE 100	171.0	34.20	39.41	4.07	5.08	15.92	5.79	9.15	1.24	23.70	1.20	0.35	1	1	-	1	1	-
IPE 120	317.8	52.96	60.73	4.90	6.31	27.67	8.65	13.58	1.45	25.20	1.74	0.89	1	1	-	1	1	-
IPE 140	541.2	77.32	88.34	5.74	7.64	44.92	12.31	19.25	1.65	26.70	2.45	1.98	1	1	-	1	1	-
IPE 160	869.3	108.7	123.9	6.58	9.66	68.31	16.66	26.10	1.84	30.34	3.60	3.96	1	1	-	1	1	-
IPE 180	1317	146.3	166.4	7.42	11.25	100.9	22.16	34.60	2.05	31.84	4.79	7.43	1	1	-	1	2	-
IPE 200	1943	194.3	220.6	8.26	14.00	142.4	28.47	44.61	2.24	36.66	6.98	12.99	1	1	-	1	2	-
IPE 220	2772	252.0	285.4	9.11	15.88	204.9	37.25	58.11	2.48	38.36	9.07	22.67	1	1	-	1	2	-
IPE 240	3892	324.3	366.6	9.97	19.14	283.6	47.27	73.92	2.69	43.37	12.88	37.39	1	1	-	1	2	-
IPE 270	5790	428.9	484.0	11.23	22.14	419.9	62.20	96.95	3.02	44.57	15.94	70.58	1	1	-	2	3	-
IPE 300	8356	557.1	628.4	12.46	25.68	603.8	80.50	125.2	3.35	46.07	20.12	125.9	1	1	-	2	4	-
IPE 330	11770	713.1	804.3	13.71	30.81	788.1	98.52	153.7	3.55	51.59	28.15	199.1	1	1	-	2	4	-
IPE 360	16270	903.6	1019	14.95	35.14	1043	122.8	191.1	3.79	54.49	37.32	313.6	1	1	-	2	4	-
IPE 400	23130	1156	1307	16.55	42.69	1318	146.4	229.0	3.95	60.20	51.08	490.0	1	1	-	3	4	-
IPE 450	33740	1500	1702	18.48	50.85	1676	176.4	276.4	4.12	63.20	66.87	791.0	1	1	-	3	4	-
IPE 500	48200	1928	2194	20.43	59.87	2142	214.2	335.9	4.31	66.80	89.29	1249	1	1	1	3	4	4
IPE 550	67120	2441	2787	22.35	72.34	2668	254.1	400.5	4.45	73.62	123.2	1884	1	1	1	4	4	4
IPE 600	92080	3069	3512	24.30	83.78	3387	307.9	485.6	4.66	78.12	165.4	2846	1	1	1	4	4	4
IPE 750 x 147	166100	4411	5110	29.76	105.40	5289	399.2	630.8	5.31	67.12	161.5	7141	1	1	-	4	4	-
IPE 750 x 173	205800	5402	6218	30.49	116.40	6873	514.9	809.9	5.57	77.52	273.6	9391	1	1	1	4	4	4
IPE 750 x 196	240300	6241	7174	30.95	127.30	8175	610.1	958.8	5.71	86.32	408.9	11290	1	1	1	4	4	4

Σειρά HEA



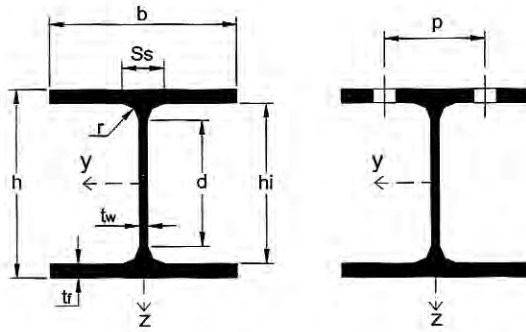
Τύπος Διατομής	G kg/m	h mm	b mm	tw mm	tr mm	r mm	A cm ²	hi mm	d mm	Ø	ρmin mm	ρmax mm	AL m ² /m	Ac m ²	Κατάση	
															Καθαρή Κάμψη	Καθαρή Θλίψη
HE 100 A	16.7	96	100	5.0	8.0	12	21.24	80	56	M10	54	58	0.561	33.680	2	3
HE 120 A	19.9	114	120	5.0	8.0	12	25.34	98	74	M12	58	68	0.677	34.060	3	4
HE 140 A	24.7	133	140	5.5	8.5	12	31.42	116	92	M16	64	76	0.794	32.210	5	6
HE 160 A	30.4	152	160	6.0	9.0	15	38.77	134	104	M20	78	84	0.906	29.780	5	5
HE 180 A	35.5	171	180	6.0	9.5	15	45.25	152	122	M24	86	92	1.024	28.830	5	5
HE 200 A	42.3	190	200	6.5	10.0	18	53.83	170	134	M27	98	100	1.136	26.890	5	5
HE 220 A	50.5	210	220	7.0	11.0	18	64.34	188	152	M27	98	118	1.255	24.850	5	5
HE 240 A	60.3	230	240	7.5	12.0	21	76.84	206	164	M27	104	138	1.369	22.700	5	5
HE 260 A	68.2	250	260	7.5	12.5	24	86.82	225	177	M27	110	158	1.484	21.770	5	5
HE 280 A	76.4	270	280	8.0	13.0	24	97.26	244	196	M27	112	178	1.603	20.990	5	5
HE 300 A	88	290	300	8.5	14.0	27	112.50	262	208	M27	118	198	1.717	19.430	5	5
HE 320 A	97.6	310	300	9.0	15.5	27	124.40	279	225	M27	118	198	1.756	17.980	5	5
HE 340 A	105.0	330	300	9.5	16.5	27	133.50	297	243	M27	118	198	1.795	17.130	5	5
HE 360 A	112	350	300	10.0	17.5	27	142.80	315	261	M27	120	198	1.834	16.360	5	5
HE 400 A	125	390	300	11.0	19.0	27	159.00	352	298	M27	120	198	1.912	15.320	5	5
HE 450 A	140.0	440	300	11.5	21.0	27	178.00	398	344	M27	122	198	2.011	14.390	5	5
HE 500 A	155	490	300	12.0	23.0	27	197.50	444	390	M27	122	198	2.110	13.600	5	5
HE 550 A	166	540	300	12.5	24.0	27	211.80	492	438	M27	122	198	2.209	13.290	5	5
HE 600 A	178	590	300	13.0	25.0	27	226.50	540	486	M27	122	198	2.308	12.980	5	5
HE 650 A	190	640	300	13.5	26.0	27	241.60	588	534	M27	124	198	2.407	12.690	5	5
HE 700 A	204	690	300	14.5	27.0	27	260.50	636	582	M27	124	198	2.505	12.250	5	5
HE 800 A	224	790	300	15.0	28.0	30	285.80	734	674	M27	130	198	2.698	12.030	5	5
HE 900 A	252	890	300	16.0	30.0	30	320.50	830	770	M27	132	198	2.896	11.510	5	5
HE 1000 A	272	990	300	16.5	31.0	30	346.80	928	868	M27	132	198	3.095	11.370	5	5

Σειρά HEA

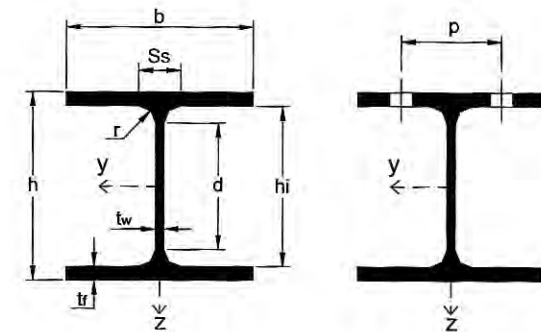


Τύπος Διατομής	Iy cm ⁴	Wely cm ³	Wply cm ³	iy cm	Avz cm ²	Iz cm ⁴	Welz cm ³	Wplz cm ³	iz cm	Ss mm	It cm ⁴	Iwx10 ⁻³ cm ⁶	Κατάση	
													Καθαρή Κάμψη	Καθαρή Θλίψη
HE 100 A	349.2	72.76	83.01	4.06	7.56	133.8	26.76	41.14	2.51	35.06	5.24	2.58	1	1
HE 120 A	606.2	106.3	119.5	4.89	8.46	230.9	38.48	58.85	3.02	35.06	5.99	6.47	1	1
HE 140 A	1033.0	155.4	173.5	5.73	10.12	389.3	55.62	84.85	3.52	36.56	8.13	15.06	1	2
HE 160 A	1673.0	220.1	245.1	6.57	13.21	615.6	76.95	117.6	3.98	41.57	12.19	31.41	1	2
HE 180 A	2510.0	293.6	324.9	7.45	14.47	924.6	102.7	156.5	4.52	42.57	14.80	60.21	1	3
HE 200 A	3692.0	388.6	429.5	8.28	18.08	1336.0	133.6	203.8	4.98	47.59	20.98	108.0	1	3
HE 220 A	5410.0	515.2	568.5	9.17	20.67	1955	177.7	270.6	5.51	50.09	28.46	193.3	1	3
HE 240 A	7763.0	675.1	744.6	10.05	25.18	2769	230.7	351.7	6.00	56.10	41.55	328.5	1	3
HE 260 A	10450.0	836.4	919.8	10.97	28.76	3668	282.1	430.2	6.50	60.62	52.37	516.4	2	3
HE 280 A	13670.0	1013.0	1112	11.86	31.74	4763	340.2	518.1	7.00	62.12	62.10	785.4	2	3
HE 300 A	18260.0	1260	1383	12.74	37.28	6310	420.6	641.2	7.49	68.13	85.17	1200	2	3
HE 320 A	22930.0	1479.0	1628	13.58	41.13	6985	465.7	709.7	7.49	71.63	108.00	1512	1	3
HE 340 A	27690.0	1678	1850	14.40	44.95	7436	495.7	755.9	7.46	74.13	127.20	1824	1	3
HE 360 A	33090.0	1891	2088	15.22	48.96	7887	525.8	802.3	7.43	76.63	148.80	2177	1	2
HE 400 A	45070.0	2311	2562	16.84	57.33	8564	570.9	872.9	7.34	80.63	189.00	2942	1	2
HE 450 A	63720.0	2896	3216	18.92	65.78	9465	631.0	965.5	7.29	85.13	243.80	4148	1	2
HE 500 A	86970.0	3550	3949	20.98	74.72	10370	691.1	1059.0	7.24	89.63	309.30	5643	1	3
HE 550 A	111900.0	4146	4622	22.99	83.72	10820	721.3	1107.0	7.15	92.13	351.50	7189	1	4
HE 600 A	141200.0	4787	5350	24.97	93.21	11270	751.4	1156.0	7.05	94.63	397.80	8978	1	4
HE 650 A	175200.0	5474	6136	26.93	103.20	11720	781.6	1205.0	6.97	97.13	448.30	11030	1	4
HE 700 A	215300.0	6241	7032	28.75	117.00	12180	811.9	1257.0	6.84	100.10	513.90	13350	1	4
HE 800 A	303400.0	7682	8699	32.58	138.80	12640	842.6	1312.0	6.65	106.10	596.90	18290	1	4
HE 900 A	422100.0	9485	10810	36.29	163.30	13550	903.2	1414.0	6.50	111.10	736.80	24960	1	4
HE 1000 A	553800.0	11190	12820	39.96	184.60	14000	933.6	1470.0	6.35	113.60	822.40	32070	1	4

Σειρά HEB



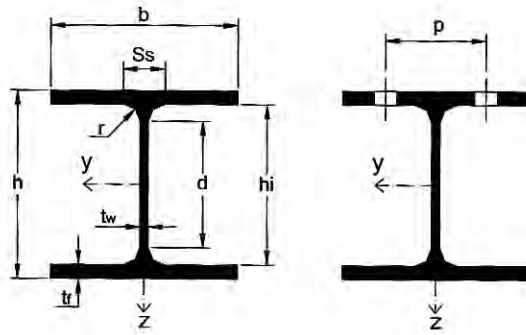
Σειρά HEB



Τύπος Διατομής	G kg/m	h mm	b mm	t _w mm	t _f mm	r mm	A cm ²	h _i mm	d mm	∅	ρ _{min} mm	ρ _{max} mm	A _L m ² /m	A _G m ² /t
HE 100 B	20.4	100	100	6.0	10.0	12	26.04	80	56	M10	56	58	0.567	27.760
HE 120 B	26.7	120	120	6.5	11.0	12	34.01	98	74	M12	60	68	0.686	25.710
HE 140 B	33.7	140	140	7.0	12.0	12	42.96	116	92	M16	66	76	0.805	23.880
HE 160 B	42.6	160	160	8.0	13.0	15	54.25	134	104	M20	80	84	0.918	21.560
HE 180 B	51.2	180	180	8.5	14.0	15	65.25	152	122	M24	88	92	1.037	20.250
HE 200 B	61.3	200	200	9.0	15.0	18	78.08	170	134	M27	100	100	1.151	18.780
HE 220 B	71.5	220	220	9.5	16.0	18	91.04	188	152	M27	100	118	1.270	17.770
HE 240 B	83.2	240	240	10.0	17.0	21	106.00	206	164	M27	108	138	1.384	16.630
HE 260 B	93.0	260	260	10.0	17.5	24	118.40	225	177	M27	114	158	1.499	16.120
HE 280 B	103	280	280	10.5	18.0	24	131.40	244	196	M27	114	178	1.618	15.690
HE 300 B	117.0	300	300	11.0	19.0	27	149.10	262	208	M27	120	198	1.732	14.800
HE 320 B	127.0	320	300	11.5	20.5	27	161.30	279	225	M27	122	198	1.771	13.980
HE 340 B	134	340	300	12.0	21.5	27	170.90	297	243	M27	122	198	1.810	13.490
HE 360 B	142	360	300	12.5	22.5	27	180.60	315	261	M27	122	198	1.849	13.040
HE 400 B	155.0	400	300	13.5	24.0	27	197.80	352	298	M27	124	198	1.927	12.410
HE 450 B	171	450	300	14.0	26.0	27	218.00	398	344	M27	124	198	2.026	11.840
HE 500 B	187	500	300	14.5	28.0	27	238.60	444	390	M27	124	198	2.125	11.340
HE 550 B	199	550	300	15.0	29.0	27	254.10	492	438	M27	124	198	2.224	11.150
HE 600 B	212	600	300	15.5	30.0	27	270.00	540	486	M27	126	198	2.323	10.960
HE 650 B	225	650	300	16.0	31.0	27	286.30	588	534	M27	126	198	2.422	10.770
HE 700 B	241	700	300	17.0	32.0	27	306.40	636	582	M27	126	198	2.520	10.480
HE 800 B	262	800	300	17.5	33.0	30	334.20	734	674	M27	134	198	2.713	10.340
HE 900 B	291	900	300	18.5	35.0	30	371.30	830	770	M27	134	198	2.911	9.990
HE 1000 B	314	1000	300	19.0	36.0	30	400.00	928	868	M27	134	198	3.110	9.905

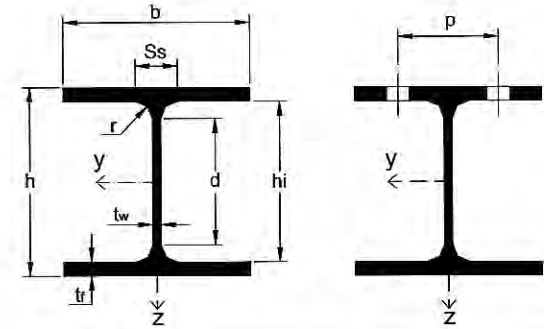
Τύπος Διατομής	I _y cm ⁴	W _{el,y} cm ³	W _{pl,y} cm ³	i _y cm	A _{wz} cm ²	I _z cm ⁴	W _{el,z} cm ³	W _{pl,z} cm ³	i _z cm	S _s mm	I _t cm ⁴	I _w × 10 ⁻³ cm ⁶	Κατάραξη					
													Καθαρή Κάμψη			Καθαρή Θλίψη		
													2	3	4	2	3	4
HE 100 B	449.5	89.91	104.20	4.16	9.04	167.3	33.45	51.42	2.53	40.06	9.25	3.38	1	1	-	1	1	-
HE 120 B	864.4	144.1	165.2	5.04	10.96	317.5	52.92	80.97	3.06	42.56	13.84	9.41	1	1	-	1	1	-
HE 140 B	1509.0	215.6	245.4	5.93	13.08	549.7	78.52	119.80	3.58	45.06	20.06	22.48	1	1	-	1	1	-
HE 160 B	2492.0	311.5	354.0	6.78	17.59	889.2	111.2	170.0	4.05	51.57	31.24	47.94	1	1	-	1	1	-
HE 180 B	3831.0	425.7	481.4	7.66	20.24	1363.0	151.4	231.0	4.57	54.07	42.16	93.75	1	1	-	1	1	-
HE 200 B	5696.0	569.6	642.5	8.54	24.83	2003.0	200.3	305.8	5.07	60.09	59.28	171.1	1	1	-	1	1	-
HE 220 B	8091.0	735.5	827.0	9.43	27.92	2843.0	258.5	393.9	5.59	62.59	76.57	295.4	1	1	-	1	1	-
HE 240 B	11260.0	938.3	1053.0	10.31	33.23	3923	326.9	498.4	6.08	68.60	102.70	486.9	1	1	-	1	1	-
HE 260 B	14920.0	1148.0	1283.0	11.22	37.59	5135	395.0	602.2	6.58	73.12	123.80	753.7	1	1	2	1	1	2
HE 280 B	19270.0	1376.0	1534	12.11	41.09	6595	471.0	717.6	7.09	74.62	143.70	1130.0	1	1	2	1	1	2
HE 300 B	25170.0	1678.0	1869.0	12.99	47.43	8563	570.9	870.1	7.58	80.63	185.00	1688	1	1	3	1	1	3
HE 320 B	30820.0	1926	2149	13.82	51.77	9239	615.9	939.1	7.57	84.13	225.10	2069	1	1	2	1	1	2
HE 340 B	36660.0	2156	2408	14.65	56.09	9690	646.0	985.7	7.53	86.63	257.20	2454	1	1	1	1	1	1
HE 360 B	43190.0	2400	2683	15.46	60.60	10140	676.1	1032.0	7.49	89.13	292.50	2883	1	1	1	1	1	1
HE 400 B	57680.0	2884	3232	17.08	69.98	10820	721.3	1104.0	7.40	93.13	355.70	3817	1	1	1	1	1	1
HE 450 B	79890.0	3551	3982	19.14	79.66	11720	781.4	1198.0	7.33	97.63	440.50	5258	1	1	1	1	1	2
HE 500 B	107200.0	4287	4815	21.19	89.82	12620	841.6	1292.0	7.27	102.10	538.40	7018	1	1	1	1	2	2
HE 550 B	136700.0	4971	5591	23.20	100.10	13080	871.8	1341.0	7.17	104.60	600.30	8856	1	1	1	1	2	3
HE 600 B	171000.0	5701	6425	25.17	110.80	13530	902.0	1391.0	7.08	107.10	667.20	10970	1	1	1	1	3	4
HE 650 B	210600.0	6480	7320	27.12	122.00	13980	932.3	1441.0	6.99	109.60	739.20	13360	1	1	1	2	3	4
HE 700 B	256900.0	7340	8327	28.96	137.10	14440	962.7	1495.0	6.87	112.60	830.90	16060	1	1	1	2	4	4
HE 800 B	359100.0	8977	10230	32.78	161.80	14900	993.6	1553.0	6.68	118.60	946.00	21840	1	1	1	3	4	4
HE 900 B	494100.0	10980	12580	36.48	188.80	15820	1054.0	1658.0	6.53	123.60	1137.00	29460	1	1	1	3	4	4
HE 1000 B	644700.0	12890	14860	40.15	212.50	16280	1085.0	1716.0	6.38	126.10	1254.00	37640	1	1	1	4	4	4

Σειρά HEM



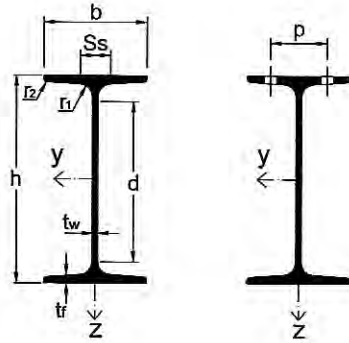
Τύπος Διατομής	G kg/m	h mm	b mm	tw mm	tr mm	r mm	A cm ²	hi mm	d mm	Ø	p _{min} mm	p _{max} mm	A _L m ² /m	A _G m ² /t
HE 100 M	41.8	120	106	12.0	20.0	12	53.24	80	56	M10	62	64	0.619	14.820
HE 120 M	52.1	140	126	12.5	21.0	12	66.41	98	74	M12	66	74	0.738	14.160
HE 140 M	63.2	160	146	13.0	22.0	12	80.56	116	92	M16	72	82	0.857	13.560
HE 160 M	76.2	180	166	14.0	23.0	15	97.05	134	104	M20	86	90	0.970	12.740
HE 180 M	88.9	200	186	14.5	24.0	15	113.30	152	122	M24	94	98	1.089	12.250
HE 200 M	103.0	220	206	15.0	25.0	18	131.30	170	134	M27	106	106	1.203	11.670
HE 220 M	117.0	240	226	15.5	26.0	18	149.40	188	152	M27	108	124	1.322	11.270
HE 240 M	157.0	270	248	18.0	32.0	21	199.60	206	164	M27	116	146	1.460	9.318
HE 260 M	172	290	268	18.0	32.5	24	219.60	225	177	M27	122	166	1.575	9.133
HE 280 M	189.0	310	288	18.5	33.0	24	240.20	244	196	M27	122	186	1.694	8.984
HE 300 M	238.0	340	310	21.0	39.0	27	303.10	262	208	M27	132	208	1.832	7.699
HE 320 M	245	359	309	21.0	40.0	27	312.00	279	225	M27	132	204	1.866	7.616
HE 340 M	248	377	309	21.0	40.0	27	315.80	297	243	M27	132	204	1.902	7.670
HE 360 M	250.0	395	308	21.0	40.0	27	318.80	315	261	M27	132	204	1.934	7.730
HE 400 M	256	432	307	21.0	40.0	27	325.80	352	298	M27	132	202	2.004	7.835
HE 450 M	263	478	307	21.0	40.0	27	335.40	398	344	M27	132	202	2.096	7.959
HE 500 M	270	524	306	21.0	40.0	27	344.30	444	390	M27	132	202	2.184	8.079
HE 550 M	278	572	306	21.0	40.0	27	354.40	492	438	M27	132	202	2.280	8.195
HE 600 M	285	620	305	21.0	40.0	27	363.70	540	486	M27	132	200	2.372	8.308
HE 650 M	293	668	305	21.0	40.0	27	373.70	588	534	M27	132	200	2.468	8.411
HE 700 M	301	716	304	21.0	40.0	27	383.00	636	582	M27	132	200	2.560	8.513
HE 800 M	317	814	303	21.0	40.0	30	404.30	734	674	M27	138	198	2.746	8.655
HE 900 M	333	910	302	21.0	40.0	30	423.60	830	770	M27	138	198	2.934	8.824
HE 1000 M	349	1008	302	21.0	40.0	30	444.20	928	868	M27	138	198	3.130	8.978

Σειρά HEM

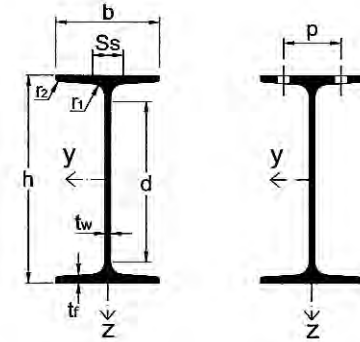


Τύπος Διατομής	I _y cm ⁴	W _{el,y} cm ³	W _{pl,y} cm ³	I _y cm	A _{wz} cm ²	I _z cm ⁴	W _{el,z} cm ³	W _{pl,z} cm ³	I _z cm	S _s mm	I _t cm ⁴	I _w × 10 ⁻³ cm ⁶	Κατάταξη							
													Καθαρή Κάμψη				Καθαρή Θλίψη			
													2	3	4	5	2	3	4	5
HE 100 M	1143.0	190.4	235.80	4.63	18.04	399.2	75.31	116.30	2.74	66.06	68.21	9.93	1	1	-	1	1	-		
HE 120 M	2018.0	288.2	350.6	5.51	21.15	702.8	111.60	171.60	3.25	68.56	91.66	24.79	1	1	-	1	1	-		
HE 140 M	3291.0	411.4	493.8	6.39	24.46	1144.0	156.80	240.50	3.77	71.06	120.00	54.33	1	1	-	1	1	-		
HE 160 M	5098.0	566.5	674.6	7.25	30.81	1759.0	211.9	325.5	4.26	77.57	162.40	108.10	1	1	-	1	1	-		
HE 180 M	7483.0	748.3	883.4	8.13	34.65	2580	277.4	425.2	4.77	80.07	203.30	199.30	1	1	-	1	1	-		
HE 200 M	10640.0	967.4	1135.0	9.00	41.03	3651.0	354.5	543.2	5.27	86.09	259.40	346.3	1	1	-	1	1	-		
HE 220 M	14600.0	1217.0	1419.0	9.89	45.31	5012.0	443.5	678.6	5.79	88.59	315.30	572.7	1	1	-	1	1	-		
HE 240 M	24290.0	1799.0	2117.0	11.03	60.07	8153	657.5	1006.0	6.39	106.60	627.90	1152.0	1	1	-	1	1	-		
HE 260 M	31310.0	2159.0	2524.0	11.94	66.89	10450	779.7	1192.0	6.90	111.10	719.00	1728.0	1	1	1	1	1	1		
HE 280 M	39550.0	2551.0	2966.0	12.83	72.03	13160	914.1	1397.0	7.40	112.60	807.30	2520.0	1	1	1	1	1	1		
HE 300 M	59200.0	3482	4078	13.98	90.53	19400	1252.0	1913.0	8.00	130.60	1408.00	4386	1	1	1	1	1	1		
HE 320 M	68130.0	3796	4435	14.78	94.85	19710	1276.0	1951.0	7.95	132.60	1501.00	5004	1	1	1	1	1	1		
HE 340 M	76370.0	4052	4718	15.55	98.63	19710	1276.0	1953.0	7.90	132.60	1506.00	5584	1	1	1	1	1	1		
HE 360 M	84870.0	4297	4989	16.32	102.40	19520	1268.0	1942.0	7.83	132.60	1507.00	6137	1	1	1	1	1	1		
HE 400 M	104100.0	4820	5571	17.88	110.20	19340	1260.0	1934.0	7.70	132.60	1515.00	7410	1	1	1	1	1	1		
HE 450 M	131500.0	5501	6331	19.80	119.80	19340	1260.0	1939.0	7.59	132.60	1529.00	9251	1	1	1	1	1	1		
HE 500 M	161900.0	6180	7094	21.69	129.50	19150	1252.0	1932.0	7.46	132.60	1539.00	11190	1	1	1	1	1	1		
HE 550 M	198000.0	6923	7933	23.64	139.60	19160	1252.0	1937.0	7.35	132.60	1554.00	13520	1	1	1	1	1	1		
HE 600 M	237400.0	7660	8772	25.55	149.70	18980	1244.0	1930.0	7.22	132.60	1564.00	15910	1	1	1	1	1	1		
HE 650 M	281700.0	8433	9657	27.45	159.70	18980	1245.0	1936.0	7.13	132.60	1579.00	18650	1	1	1	1	1	2		
HE 700 M	329300.0	9198	10540	29.32	169.80	18800	1237.0	1929.0	7.01	132.60	1589.00	21400	1	1	1	1	2	3		
HE 800 M	442600.0	10870	12490	33.09	194.30	18630	1230.0	1930.0	6.79	136.10	1646.00	27780	1	1	1	1	3	4		
HE 900 M	570400.0	12540	14440	36.70	214.40	18450	1222.0	1929.0	6.60	136.10	1671.00	34750	1	1	1	2	4	4		
HE 1000 M	722300.0	14330	16570	40.32	235.00	18460	1222.0	1940.0	6.45	136.10	1701.00	43020	1	1	1	3	4	4		

Σειρά IPN



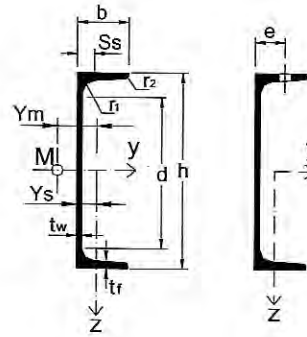
Σειρά IPN



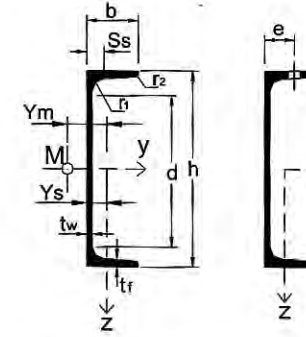
Τύπος Διατομής	G kg/m	h mm	b mm	tw mm	tr mm	r1 mm	r2 mm	A cm ²	d mm	∅	ρmin mm	ρmax mm	AL m ² /m	AG m ² /t
IPN 120	11.1	120	58	5.1	7.7	5.1	3.1	14.2	92.4	-	-	-	0.439	39.38
IPN 140	14.3	140	66	5.7	8.6	5.7	3.4	18.3	109.1	-	-	-	0.502	34.94
IPN 160	17.9	160	74	6.3	9.5	6.3	3.8	22.8	125.8	-	-	-	0.575	32.13
IPN 180	21.9	180	82	6.9	10.4	6.9	4.1	27.9	142.4	-	-	-	0.640	29.22
IPN 200	26.2	200	90	7.5	11.3	7.5	4.5	33.4	159.1	-	-	-	0.709	27.04
IPN 220	31.1	220	98	8.1	12.2	8.1	4.9	39.5	175.8	M10	50	56	0.775	24.99
IPN 240	36.2	240	106	8.7	13.1	8.7	5.2	46.1	192.5	M10	54	60	0.844	23.32
IPN 260	41.9	260	113	9.4	14.1	9.4	5.6	53.3	208.9	M12	62	62	0.906	21.65
IPN 280	47.9	280	119	10.1	15.2	10.1	6.1	61.0	225.1	M12	68	68	0.966	20.17
IPN 300	54.2	300	125	10.8	16.2	10.8	6.5	69.0	241.6	M12	70	74	1.03	19.02
IPN 320	61.0	320	131	11.5	17.3	11.5	6.9	77.7	257.9	M12	70	80	1.09	17.87
IPN 340	68.0	340	137	12.2	18.3	12.2	7.3	86.7	274.3	M12	78	86	1.15	16.90
IPN 360	76.1	360	143	13	19.5	13	7.8	97.0	290.2	M12	78	92	1.21	15.89
IPN 380	84.0	380	149	13.7	20.5	13.7	8.2	107	306.7	M16	84	86	1.27	15.12
IPN 400	92.4	400	155	14.4	21.6	14.4	8.6	118	322.9	M16	86	92	1.33	14.36
IPN 450	115	450	170	16.2	24.3	16.2	9.7	147	363.6	M16	92	106	1.48	12.83
IPN 500	141	500	185	18	27	18	10.8	179	404.3	M20	102	110	1.63	11.60
IPN 550	166	550	200	19	30	19	11.9	212	445.6	M22	112	118	1.80	10.80

Τύπος Διατομής	Iy cm ⁴	Wel,y cm ³	Wpl,y cm ³	iy cm	Avz cm ²	Iz cm ⁴	Wel,z cm ³	Wpl,z cm ³	iz cm	Ss mm	It cm ⁴	Iw x 10 ⁻³ cm ⁶	Κατάξη			
													Καθαρή Κάμψη		Καθαρή Θλίψη	
													235	355	235	355
IPN 120	328	54.7	63.6	4.81	6.63	21.5	7.41	12.4	1.23	28.4	2.71	0.69	1	1	1	1
IPN 140	573	81.9	95.4	5.61	8.65	35.2	10.7	17.9	1.40	31.8	4.32	1.54	1	1	1	1
IPN 160	935	117	136	6.4	10.83	54.7	14.8	24.9	1.55	35.2	6.57	3.14	1	1	1	1
IPN 180	1450	161	187	7.2	13.35	81.3	19.8	33.2	1.71	38.6	9.58	5.92	1	1	1	1
IPN 200	2140	214	250	8.0	16.03	117	26.0	43.5	1.87	42.0	13.5	10.5	1	1	1	1
IPN 220	3060	278	324	8.8	19.06	162	33.1	55.7	2.02	45.4	18.6	17.8	1	1	1	1
IPN 240	4250	354	412	9.59	22.33	221	41.7	70.0	2.20	48.9	25.0	28.7	1	1	1	1
IPN 260	5740	442	514	10.4	26.08	288	51.0	85.9	2.32	52.6	33.5	44.1	1	1	1	1
IPN 280	7590	542	632	11.1	30.18	364	61.2	103	2.45	56.4	44.2	64.6	1	1	1	1
IPN 300	9800	653	762	11.9	34.58	451	72.2	121	2.56	60.1	56.8	91.8	1	1	1	1
IPN 320	12510	782	914	12.7	39.26	555	84.7	143	2.67	63.9	72.5	129	1	1	1	1
IPN 340	15700	923	1080	13.5	44.27	674	98.4	166	2.80	67.6	90.4	176	1	1	1	1
IPN 360	19610	1090	1276	14.2	49.95	818	114.0	194	2.90	71.8	115	240	1	1	1	1
IPN 380	24010	1260	1482	15.0	55.55	975	131.0	221	3.02	75.4	141	319	1	1	1	1
IPN 400	29210	1460	1714	15.7	61.69	1160	149	253	3.13	79.3	170	420	1	1	1	1
IPN 450	45850	2040	2400	17.7	77.79	1730	203	345	3.43	88.9	267	791	1	1	1	1
IPN 500	68740	2750	3240	19.6	95.6	2480	268	456	3.72	98.5	402	1400	1	1	1	1
IPN 550	99180	3610	4240	21.6	111.30	3490	349	592	4.02	107.3	544	2390	1	1	1	1

Σειρά UPN



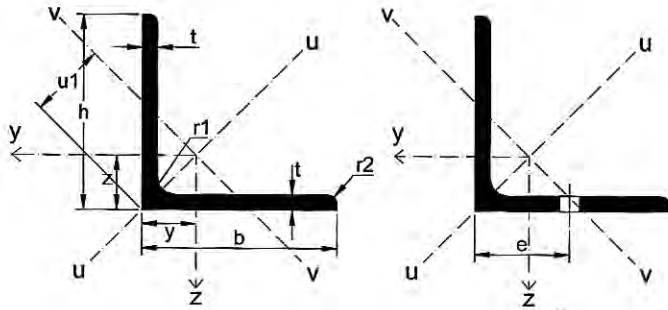
Σειρά UPN



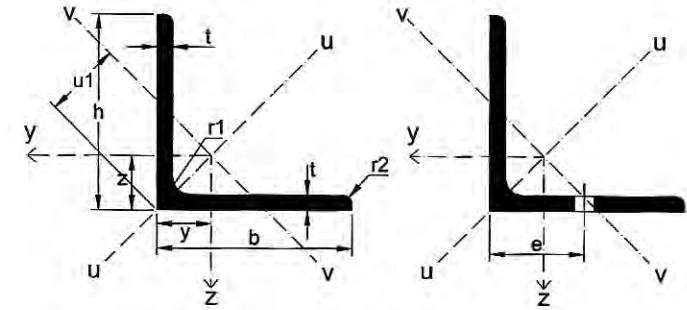
Τύπος Διατομής	G kg/m	h mm	b mm	tw mm	lr mm	r1 mm	r2 mm	A cm ²	d mm	∅	θ _{min} mm	θ _{max} mm	A _L m ² /m	A _G m ² /t
UPN 100	10.6	100	50	6	8.5	8.5	4.5	13.5	64	-	-	-	0.372	35.1
UPN 120	13.4	120	55	7	9	9	4.5	17.0	82	-	-	-	0.434	32.52
UPN 140	16.0	140	60	7	10	10	5	20.4	98	M12	33	37	0.489	30.54
UPN 160	18.8	160	65	7.5	10.5	10.5	5.5	24.0	115	M12	34	42	0.546	28.98
UPN 180	22.0	180	70	8	11	11	5.5	28.0	133	M16	38	41	0.611	27.8
UPN 200	25.3	200	75	8.5	11.5	11.5	6	32.2	151	M16	39	46	0.661	26.15
UPN 220	29.4	220	80	9	12.5	12.5	6.5	37.4	167	M16	40	51	0.718	24.46
UPN 240	33.2	240	85	9.5	13	13	6.5	42.3	184	M20	46	50	0.775	23.34
UPN 260	37.9	260	90	10	14	14	7	48.3	200	M22	50	52	0.834	22
UPN 280	41.8	280	95	10	15	15	7.5	53.3	216	M22	52	57	0.89	21.27
UPN 300	46.2	300	100	10	16	16	8	58.8	232	M24	55	59	0.95	20.58
UPN 320	59.5	320	100	14	17.5	17.5	8.75	75.8	246	M22	58	62	0.982	16.5
UPN 350	60.6	350	100	14	16	16	8	77.3	282	M22	56	62	1.047	17.25
UPN 380	63.1	380	102	13.5	16	16	8	80.4	313	M24	59	60	1.11	17.59
UPN 400	71.8	400	110	14	18	18	9	91.5	324	M27	61	62	1.182	16.46

Τύπος Διατομής	I _y cm ⁴	W _{el,y} cm ³	W _{pl,y} cm ³	I _y cm	A _{vz} cm ²	I _z cm ⁴	W _{el,z} cm ³	W _{pl,z} cm ³	I _z cm	S _s mm	I _t cm ⁴	I _w × 10 ⁻³ cm ⁶	Y _s cm	Y _m cm	Κατάταξη			
															Καθαρή Κάμψη		Καθαρή Θλίψη	
															235	355	235	355
UPN 100	206	41.2	49	3.91	6.46	29.3	8.49	16.2	1.47	20.3	2.81	0.41	1.55	2.93	1	1	1	1
UPN 120	364	60.7	72.6	4.62	8.8	43.2	11.1	21.2	1.59	22.2	4.15	0.9	1.6	3.03	1	1	1	1
UPN 140	605	86.4	103	5.45	10.41	62.7	14.8	28.3	1.75	23.9	5.68	1.8	1.75	3.37	1	1	1	1
UPN 160	925	116	138	6.21	12.6	85.3	18.3	35.2	1.89	25.3	7.39	3.26	1.84	3.56	1	1	1	1
UPN 180	1350	150	179	6.95	15.09	114	22.4	42.9	2.02	26.7	9.55	5.57	1.92	3.75	1	1	1	1
UPN 200	1910	191	228	7.7	17.71	148	27	51.8	2.14	28.1	11.9	9.07	2.01	3.94	1	1	1	1
UPN 220	2690	245	292	8.48	20.62	197	33.6	64.1	2.3	30.3	16	14.6	2.14	4.2	1	1	1	1
UPN 240	3600	300	358	9.22	23.71	248	39.6	75.7	2.42	31.7	19.7	22.1	2.23	4.39	1	1	1	1
UPN 260	4820	371	442	9.99	27.12	317	47.7	91.6	2.56	33.9	25.5	33.3	2.36	4.66	1	1	1	1
UPN 280	6280	448	532	10.9	29.28	399	57.2	109	2.74	35.6	31	48.5	2.53	5.02	1	1	1	1
UPN 300	8030	535	632	11.7	31.77	495	67.8	130	2.9	37.3	37.4	69.1	2.7	5.41	1	1	1	1
UPN 320	10870	679	826	12.1	47.11	597	80.6	152	2.81	43	66.7	96.1	2.6	4.82	1	1	1	1
UPN 350	12840	734	918	12.9	50.84	570	75	143	2.72	40.7	61.2	114	2.4	4.45	1	1	1	1
UPN 380	15760	829	1014	14	53.23	615	78.7	148	2.77	40.3	59.1	146	2.38	4.58	1	1	1	1
UPN 400	20350	1020	1240	14.9	58.55	846	102	190	3.04	44	81.6	221	2.65	5.11	1	1	1	1

Σειρά L



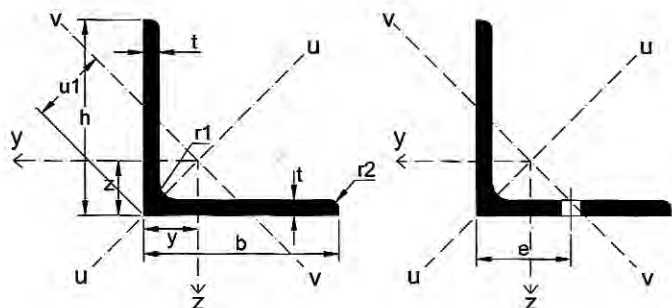
Σειρά L



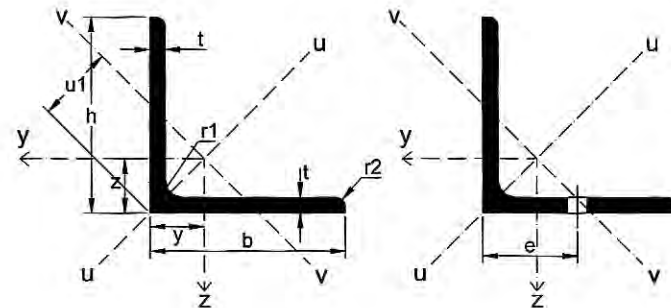
Τύπος Διατομής	G kg/m	h = b mm	t mm	r ₁ mm	r ₂ mm	A cm ²	z = y cm	v cm	u ₁ cm	u ₂ cm	A _L m ² /m	A _G m ² /t	∅	e _{min} mm	e _{max} mm	A _{net} cm ²
L 100 x 100 x 8	12.2	100	8	12	6	15.51	2.74	7.07	3.87	3.52	0.390	32.00	M27	48	53	13.11
L 100 x 100 x 10	15.0	100	10	12	6	19.20	2.82	7.07	3.99	3.54	0.390	25.92	M27	50	53	16.15
L 100 x 100 x 12	17.8	100	12	12	6	22.71	2.90	7.07	4.11	3.57	0.390	21.86	M27	52	53	19.11
L 110 x 110 x 10	16.6	110	10	13	6.5	21.18	3.06	7.78	4.33	3.88	0.429	25.79	M27	50	62	18.18
L 110 x 110 x 12	19.7	110	12	13	6.5	25.14	3.15	7.78	4.45	3.91	0.429	21.73	M27	52	62	21.54
L 120 x 120 x 10	18.2	120	10	13	6.5	23.18	3.31	8.49	4.69	4.24	0.469	25.76	M27	50	72	20.18
L 120 x 120 x 11	19.9	120	11	13	6.5	25.37	3.36	8.49	4.75	4.25	0.469	23.54	M27	51	72	22.07
L 120 x 120 x 12	21.6	120	12	13	6.5	27.54	3.40	8.49	4.80	4.26	0.469	21.69	M27	52	72	23.94
L 120 x 120 x 13	23.3	120	13	13	6.5	29.69	3.44	8.49	4.86	4.28	0.469	20.12	M27	53	72	25.79
L 120 x 120 x 15	26.6	120	15	13	6.5	33.93	3.51	8.49	4.97	4.31	0.469	17.60	M27	55	72	29.43
L 130 x 130 x 12	23.5	130	12	14	7	30.00	3.64	9.19	5.15	4.60	0.508	21.59	M27	52	82	26.37
L 140 x 140 x 10	21.4	140	10	15	7.5	27.24	3.79	9.90	5.37	4.93	0.547	25.59	M27	51	92	24.24
L 140 x 140 x 13	27.4	140	13	15	7.5	34.95	3.92	9.90	5.55	4.96	0.547	19.94	M27	54	92	31.05
L 150 x 150 x 10	23.0	150	10	16	8	29.27	4.03	10.61	5.71	5.28	0.586	25.51	M27	52	102	26.27
L 150 x 150 x 12	27.3	150	12	16	8	34.83	4.12	10.61	5.83	5.29	0.586	21.44	M27	54	102	31.23
L 150 x 150 x 14	31.6	150	14	16	8	40.31	4.21	10.61	5.95	5.32	0.586	18.53	M27	56	102	36.11
L 150 x 150 x 15	33.8	150	15	16	8	43.02	4.25	10.61	6.01	5.33	0.586	17.36	M27	57	102	38.52
L 150 x 150 x 18	40.1	150	18	16	8	51.03	4.37	10.61	6.17	5.37	0.586	14.63	M27	61	102	45.63
L 160 x 160 x 14	33.9	160	14	17	8.5	43.15	4.45	11.31	6.29	5.66	0.625	18.46	M27	57	111	38.95
L 160 x 160 x 15	36.2	160	15	17	8.5	46.06	4.49	11.31	6.35	5.67	0.625	17.30	M27	58	111	41.56
L 160 x 160 x 16	38.4	160	16	17	8.5	48.95	4.53	11.31	6.41	5.69	0.625	16.28	M27	60	111	44.15
L 160 x 160 x 17	40.7	160	17	17	8.5	51.82	4.57	11.31	6.46	5.70	0.625	15.37	M27	61	111	46.72
L 180 x 180 x 13	35.7	180	13	18	9	45.46	4.90	12.73	6.93	6.35	0.705	19.74	M27	57	131	41.56
L 180 x 180 x 14	38.3	180	14	18	9	48.79	4.94	12.73	6.99	6.36	0.705	18.40	M27	58	131	44.59
L 180 x 180 x 15	40.9	180	15	18	9	52.10	4.98	12.73	7.05	6.37	0.705	17.23	M27	59	131	47.60
L 180 x 180 x 16	43.5	180	16	18	9	55.39	5.02	12.73	7.10	6.38	0.705	16.20	M27	61	131	50.59
L 180 x 180 x 17	46.0	180	17	18	9	58.66	5.06	12.73	7.16	6.40	0.705	15.30	M27	62	131	53.56

Τύπος Διατομής	I _y = I _z cm ⁴	W _{el,y} = W _{el,z} cm ³	i _y = i _z cm	I _u cm ⁴	I _v cm ⁴	I _w cm ⁴	i _w cm	I _{yz} cm ⁴	Κατάξη	
									235	355
L 100 x 100 x 8	144.8	19.94	3.06	230.2	3.85	59.47	1.96	-85.37	4	4
L 100 x 100 x 10	176.7	24.62	3.04	280.7	3.83	72.65	1.95	-104	1	4
L 100 x 100 x 12	206.7	29.12	3.02	328.0	3.80	85.42	1.94	-121.3	1	2
L 110 x 110 x 10	238.0	29.99	3.35	378.2	4.23	97.72	2.15	-140.3	2	4
L 110 x 110 x 12	279.1	35.54	3.33	443.3	4.20	115.0	2.14	-164.1	1	3
L 120 x 120 x 10	312.9	36.03	3.67	497.6	4.63	128.3	2.35	-184.6	4	4
L 120 x 120 x 11	340.6	39.41	3.66	541.5	4.62	139.8	2.35	-200.9	2	4
L 120 x 120 x 12	367.7	42.73	3.65	584.3	4.61	151.0	2.34	-216.6	1	4
L 120 x 120 x 13	394.0	46.01	3.64	625.9	4.59	162.2	2.34	-231.8	1	3
L 120 x 120 x 15	444.9	52.43	3.62	705.6	4.56	184.2	2.33	-260.7	1	1
L 130 x 130 x 12	472.2	50.44	3.97	750.6	5.00	193.7	2.54	-278.5	2	4
L 140 x 140 x 10	504.4	49.43	4.30	802	5.43	206.8	2.76	-297.6	4	4
L 140 x 140 x 13	638.5	63.37	4.27	1015	5.39	262.0	2.74	-376.6	2	4
L 150 x 150 x 10	624.0	56.91	4.62	992	5.82	256.0	2.96	-368	4	4
L 150 x 150 x 12	736.9	67.75	4.60	1172	5.80	302.0	2.94	-434.9	4	4
L 150 x 150 x 14	845.4	78.33	4.58	1344	5.77	346.9	2.93	-498.5	2	4
L 150 x 150 x 15	898.1	83.52	4.57	1427	5.76	368.9	2.93	-529.1	1	4
L 150 x 150 x 18	1050	98.74	4.54	1666	5.71	433.8	2.92	-616.2	1	2
L 160 x 160 x 14	1034	89.50	4.89	1644	6.17	423.8	3.13	-610	3	4
L 160 x 160 x 15	1099	95.5	4.88	1747	6.16	450.8	3.13	-648	2	4
L 160 x 160 x 16	1163	101.4	4.87	1848	6.14	477.6	3.12	-685.1	1	4
L 160 x 160 x 17	1225	107.2	4.86	1947	6.13	504.1	3.12	-721.3	1	4
L 180 x 180 x 13	1396	106.5	5.54	2221	6.99	571.6	3.55	-824.5	4	4
L 180 x 180 x 14	1493	114.3	5.53	2375	6.98	611.3	3.54	-882	4	4
L 180 x 180 x 15	1589	122.0	5.52	2527	6.96	650.5	3.53	-938	4	4
L 180 x 180 x 16	1682	129.7	5.51	2675	6.95	689.4	3.53	-993	3	4
L 180 x 180 x 17	1775	137.2	5.50	2822	6.94	727.8	3.52	-1047	2	4

Σειρά L



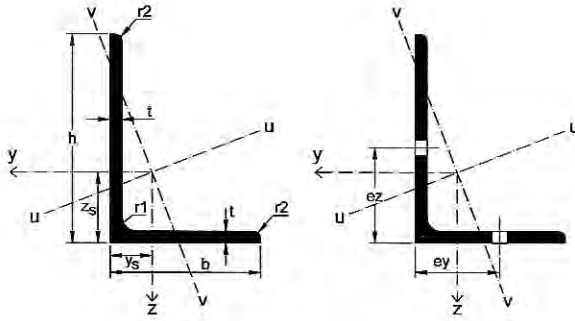
Σειρά L



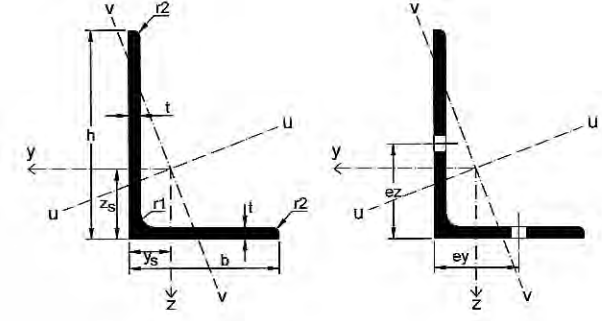
Τύπος Διατομής	G kg/m	h = b mm	t mm	r ₁ mm	r ₂ mm	A cm ²	z = y cm	v cm	u ₁ cm	u ₂ cm	A _L m ² /m	A _G m ² /t	∅	e _{min} mm	e _{max} mm	A _{net} cm ²
L 180 x 180 x 18	48.6	180	18	18	9	61.91	5.10	12.73	7.22	6.41	0.705	14.50	M27	63	131	56.51
L 180 x 180 x 19	51.1	180	19	18	9	65.14	5.14	12.73	7.27	6.42	0.705	13.78	M27	64	131	59.44
L 180 x 180 x 20	53.7	180	20	18	9	68.35	5.18	12.73	7.33	6.44	0.705	13.13	M27	65	131	62.35
L 200 x 200 x 15	45.6	200	15	18	9	58.10	5.48	14.14	7.75	7.08	0.785	17.20	M27	59	151	53.60
L 200 x 200 x 16	48.5	200	16	18	9	61.79	5.52	14.14	7.81	7.09	0.785	16.18	M27	61	151	56.99
L 200 x 200 x 17	51.4	200	17	18	9	65.46	5.56	14.14	7.87	7.10	0.785	15.27	M27	62	151	60.36
L 200 x 200 x 18	54.3	200	18	18	9	69.11	5.60	14.14	7.93	7.12	0.785	14.46	M27	63	151	63.71
L 200 x 200 x 19	57.1	200	19	18	9	72.74	5.64	14.14	7.98	7.13	0.785	13.74	M27	64	151	67.04
L 200 x 200 x 20	59.9	200	20	18	9	76.35	5.68	14.14	8.04	7.15	0.785	13.09	M27	65	151	70.35
L 200 x 200 x 21	62.8	200	21	18	9	79.94	5.72	14.14	8.09	7.16	0.785	12.50	M27	66	151	73.64
L 200 x 200 x 22	65.6	200	22	18	9	83.51	5.76	14.14	8.15	7.18	0.785	11.97	M27	67	151	76.91
L 200 x 200 x 23	68.3	200	23	18	9	87.06	5.80	14.14	8.20	7.19	0.785	11.48	M27	68	151	80.16
L 200 x 200 x 24	71.1	200	24	18	9	90.59	5.84	14.14	8.26	7.21	0.785	11.03	M27	69	151	83.39
L 200 x 200 x 25	73.9	200	25	18	9	94.10	5.88	14.14	8.31	7.23	0.785	10.62	M27	70	151	86.60
L 200 x 200 x 26	76.6	200	26	18	9	97.59	5.91	14.14	8.36	7.25	0.785	10.24	M27	71	151	89.79
L 250 x 250 x 20	75.6	250	20	18	9	96.35	6.93	17.68	9.81	8.91	0.985	13.02	M27	40	240	96.35
L 250 x 250 x 21	79.2	250	21	18	9	100.94	6.97	17.68	9.86	8.93	0.985	12.43	M27	41	246	100.94
L 250 x 250 x 22	82.8	250	22	18	9	105.51	7.01	17.68	9.92	8.94	0.985	11.89	M27	42	246	105.51
L 250 x 250 x 23	86.4	250	23	18	9	110.06	7.05	17.68	9.97	8.96	0.985	11.40	M27	43	246	110.06
L 250 x 250 x 24	90.0	250	24	18	9	114.59	7.09	17.68	10.03	8.98	0.985	10.95	M27	44	246	114.59
L 250 x 250 x 25	93.5	250	25	18	9	119.10	7.13	17.68	10.08	8.99	0.985	10.53	M27	45	246	119.10
L 250 x 250 x 26	97.0	250	26	18	9	123.59	7.17	17.68	10.13	9.01	0.985	10.15	M27	46	246	123.59
L 250 x 250 x 27	100.5	250	27	18	9	128.06	7.20	17.68	10.19	9.03	0.985	9.79	M27	47	246	128.06
L 250 x 250 x 28	104.0	250	28	18	9	132.51	7.24	17.68	10.24	9.04	0.985	9.47	M27	48	246	132.51

Τύπος Διατομής	I _y = I _z cm ⁴	W _{el,y} = W _{el,z} cm ³	I _y = I _z cm	I _u cm ⁴	I _v cm	I _v cm ⁴	I _v cm	I _z cm ⁴	Κατάση	
									235	355
L 180 x 180 x 18	1866	144.7	5.49	2965	6.92	766.0	3.52	-1100	1	4
L 180 x 180 x 19	1955	152.1	5.48	3106	6.91	803.8	3.51	-1151	1	4
L 180 x 180 x 20	2043	159.4	5.47	3244	6.89	841.3	3.51	-1202	1	3
L 200 x 200 x 15	2209	152.2	6.17	3516	7.78	903	3.94	-1306	4	4
L 200 x 200 x 16	2341	161.7	6.16	3726	7.77	957	3.94	-1384	4	4
L 200 x 200 x 17	2472	171.2	6.14	3932	7.75	1011	3.93	-1461	4	4
L 200 x 200 x 18	2600	180.6	6.13	4135	7.74	1064	3.92	-1536	3	4
L 200 x 200 x 19	2726	189.9	6.12	4335	7.72	1117	3.92	-1609	2	4
L 200 x 200 x 20	2851	199.1	6.11	4532	7.70	1169	3.91	-1681	1	4
L 200 x 200 x 21	2973	208.2	6.10	4725	7.69	1221	3.91	-1752	1	4
L 200 x 200 x 22	3094	217.3	6.09	4915	7.67	1273	3.90	-1821	1	3
L 200 x 200 x 23	3213	226.3	6.08	5102	7.66	1324	3.90	-1889	1	2
L 200 x 200 x 24	3331	235.2	6.06	5286	7.64	1375	3.90	-1955	1	2
L 200 x 200 x 25	3446	244.0	6.05	5467	7.62	1426	3.89	-2020	1	1
L 200 x 200 x 26	3560	252.7	6.04	5645	7.61	1476	3.89	-2084	1	1
L 250 x 250 x 20	5743.0	317.90	7.72	9144	9.74	2341	4.93	-3401	4	4
L 250 x 250 x 21	5997.0	332.70	7.71	9548	9.73	2447	4.92	-3550	4	4
L 250 x 250 x 22	6249.0	347.40	7.70	9946	9.71	2551	4.92	-3697	3	4
L 250 x 250 x 23	6497.0	362.00	7.68	10339	9.69	2655	4.91	-3842	2	4
L 250 x 250 x 24	6743	376.50	7.67	10727	9.68	2759	4.91	-3984	2	4
L 250 x 250 x 25	6986	390.90	7.66	11110	9.66	2861	4.90	-4124	1	4
L 250 x 250 x 26	7226	405.2	7.65	11488	9.64	2963	4.90	-4262	1	4
L 250 x 250 x 27	7463	419.3	7.63	11861	9.62	3065	4.89	-4398	1	4
L 250 x 250 x 28	7697	433.4	7.62	12229	9.61	3166	4.89	-4532	1	4

Σειρά Li



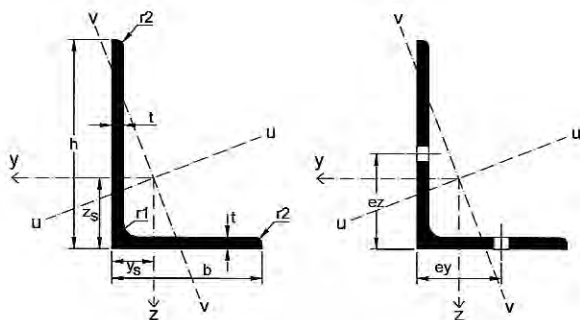
Σειρά Li



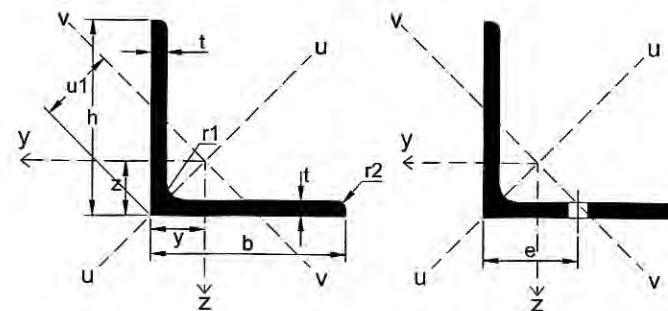
Τύπος Διατομής	G kg/m	h mm	b mm	t mm	r ₁ mm	r ₂ mm	A cm ²	Z _s cm	y _s cm	v ₁ cm	v ₂ cm	u ₁ cm	u ₂ cm	u ₃ cm	A _L m ² /m	A _G m ² /t
L 120 x 80 x 8	12.2	120	80	8	11	5.5	15.49	3.83	1.87	8.23	5.97	3.25	4.19	2.09	0.391	32.12
L 120 x 80 x 10	15.0	120	80	10	11	5.5	19.13	3.92	1.95	8.19	6.01	3.35	4.17	2.15	0.391	26.01
L 120 x 80 x 12	17.8	120	80	12	11	5.5	22.69	4.00	2.03	8.14	6.04	3.45	4.16	2.20	0.391	21.93
L 130 x 65 x 8	11.8	130	65	8	11	5.5	15.09	4.56	1.37	8.51	5.71	2.48	3.82	1.39	0.381	32.13
L 130 x 65 x 10	14.6	130	65	10	11	5.5	18.63	4.65	1.45	8.44	5.77	2.57	3.78	1.46	0.381	26.02
L 150 x 90 x 10	18.2	150	90	10	12	6	23.15	5.00	2.04	10.10	7.07	3.61	4.97	2.20	0.470	25.84
L 150 x 90 x 11	19.9	150	90	11	12	6	25.34	5.04	2.08	10.07	7.09	3.66	4.95	2.23	0.470	23.61
L 150 x 100 x 10	19.0	150	100	10	12	6	24.15	4.81	2.34	10.27	7.48	4.08	5.25	2.64	0.490	25.83
L 150 x 100 x 12	22.5	150	100	12	12	6	28.71	4.90	2.42	10.23	7.52	4.18	5.23	2.70	0.490	21.72
L 150 x 100 x 14	26.1	150	100	14	12	6	33.19	4.98	2.50	10.19	7.55	4.28	5.22	2.75	0.490	18.79
L 160 x 80 x 10	18.2	160	80	10	13	6.5	23.18	5.63	1.69	10.46	7.04	3.06	4.70	1.73	0.469	25.76
L 160 x 80 x 12	21.6	160	80	12	13	6.5	27.54	5.72	1.77	10.40	7.10	3.15	4.66	1.80	0.469	21.69
L 200 x 100 x 10	23.0	200	100	10	15	7.5	29.24	6.93	2.01	13.15	8.74	3.72	5.94	2.09	0.587	25.58
L 200 x 100 x 12	27.3	200	100	12	15	7.5	34.80	7.03	2.10	13.08	8.81	3.82	5.89	2.17	0.587	21.49
L 200 x 100 x 14	31.6	200	100	14	15	7.5	40.28	7.12	2.18	13.01	8.86	3.91	5.85	2.24	0.587	18.57

Τύπος Διατομής	I _y cm ⁴	W _{el,y} cm ³	i _y cm	I _z cm ⁴	W _{el,z} cm ³	i _z cm	I _u cm ⁴	i _u cm	I _v cm ⁴	i _v cm	I _{yz} cm ⁴	α °	Κατάραξη	
													235	355
L 120 x 80 x 8	225.7	27.63	3.82	80.76	13.17	2.28	260.0	4.10	46.39	1.73	-78.5	23.65	4	4
L 120 x 80 x 10	275.5	34.10	3.80	98.11	16.21	2.26	317.0	4.07	56.60	1.72	-95.34	23.53	3	4
L 120 x 80 x 12	322.8	40.37	3.77	114.33	19.14	2.24	370.7	4.04	66.46	1.71	-110.8	23.37	1	4
L 130 x 65 x 8	262.5	31.10	4.17	44.77	8.72	1.72	278.6	4.30	28.72	1.38	-61.25	14.68	4	4
L 130 x 65 x 10	320.5	38.39	4.15	54.2	10.73	1.71	339.6	4.27	35.02	1.37	-73.99	14.53	3	4
L 150 x 90 x 10	533.1	53.29	4.80	146.1	20.98	2.51	591.3	5.05	87.9	1.95	-160.9	19.87	4	4
L 150 x 90 x 11	580.7	58.30	4.79	158.7	22.91	2.50	643.7	5.04	95.7	1.94	-174.7	19.81	3	4
L 150 x 100 x 10	552.6	54.23	4.78	198.5	25.92	2.87	637.3	5.14	113.8	2.17	-192.8	23.72	4	4
L 150 x 100 x 12	650.5	64.38	4.76	232.6	30.69	2.85	749.3	5.11	133.90	2.16	-225.8	23.61	3	4
L 150 x 100 x 14	744.4	74.27	4.74	264.9	35.32	2.82	855.9	5.08	153.40	2.15	-256.8	23.48	2	4
L 160 x 80 x 10	611.3	58.94	5.14	104.4	16.55	2.12	648.7	5.29	67.01	1.70	-142.7	14.69	4	4
L 160 x 80 x 12	719.5	69.98	5.11	122.0	19.59	2.10	762.8	5.26	78.77	1.69	-166.5	14.57	3	4
L 200 x 100 x 10	1219	93.24	6.46	210.3	26.33	2.68	1294	6.65	134.5	2.14	-286.8	14.82	4	4
L 200 x 100 x 12	1440	111.0	6.43	247.2	31.28	2.67	1529	6.63	158.5	2.13	-337.3	14.74	4	4
L 200 x 100 x 14	1654	128.4	6.41	282.2	36.08	2.65	1755	6.60	181.7	2.12	-384.8	14.65	3	4

Σειρά Li



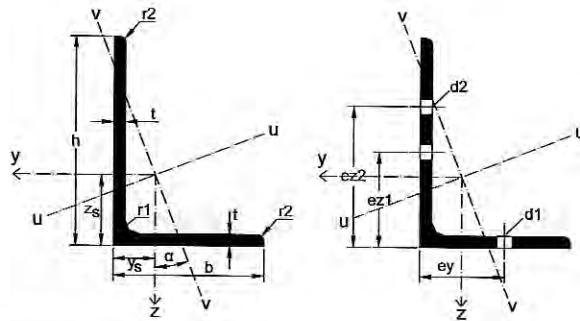
Σειρά Li



Τύπος Διατομής	\emptyset_z	$\emptyset_{z,min}$ mm	$\emptyset_{z,max}$ mm	$A_{z,net}$ cm ²	\emptyset_y	$\emptyset_{y,min}$ mm	$\emptyset_{y,max}$ mm	$A_{y,net}$ cm ²
L 120 x 80 x 8	M27	48	72	13.09	M16	38	51	14.05
L 120 x 80 x 10	M27	50	72	16.13	M16	40	51	17.33
L 120 x 80 x 12	M27	52	72	19.09	M16	42	51	20.53
L 130 x 65 x 8	M27	48	82	12.69	M12	35	42	13.97
L 130 x 65 x 10	M27	50	82	15.63	M12	37	42	17.23
L 150 x 90 x 10	M27	50	102	20.15	M24	47	49	20.55
L 150 x 90 x 11	M27	51	102	22.04	M24	48	49	22.48
L 150 x 100 x 10	M27	50	102	21.15	M27	50	53	21.15
L 150 x 100 x 12	M27	52	102	25.11	M27	52	53	25.11
L 150 x 100 x 14	M27	54	102	28.99	M24	51	59	29.55
L 160 x 80 x 10	M27	50	111	20.18	M16	40	51	21.38
L 160 x 80 x 12	M27	52	111	23.94	M16	42	51	25.38
L 200 x 100 x 10	M27	54	150	26.24	M27	51	53	26.24
L 200 x 100 x 12	M27	54	150	31.20	M27	53	53	31.20
L 200 x 100 x 14	M27	55	151	36.08	M24	52	59	36.64

Τύπος Διατομής	G kg/m	h = b mm	t mm	r1 mm	r2 mm	A cm ²	z = y cm	v cm	u1 cm	\emptyset	\emptyset_{min} mm	\emptyset_{max} mm	W _{el,y} = W _{el,z} cm ⁴	I _{y=Iz} cm ⁴	I _u cm ⁴	I _v cm ⁴	I _v cm ⁴	I _v cm ⁴	
																			W _{el,y} cm ³
L 35 X 35 X 4	2.10	35	4	5	2.50	2.67	1.00	2.47	1.41	11	18	18	2.96	1.18	1.05	4.68	1.33	1.24	0.68
L 40 X 40 X 4	2.42	40	4	6	3	3.08	1.12	2.83	1.58	11	22	22	4.48	1.56	1.21	5.45	1.52	1.44	0.78
L 45 X 45 X 4	2.74	45	4	7	3.50	3.49	1.23	3.18	1.75	13	25	25	6.43	1.97	1.36	10.2	1.71	2.68	0.88
L 45 X 45 X 5	3.38	45	5	7	3.50	4.30	1.28	3.18	1.81	13	25	25	7.83	2.43	1.35	12.4	1.70	3.25	0.87
L 50 X 50 X 4	3.06	50	4	7	3.50	3.89	1.36	3.54	1.92	13	30	30	8.97	2.46	1.52	14.2	1.91	3.73	0.98
L 50 X 50 X 5	3.77	50	5	7	3.50	4.80	1.40	3.54	1.98	13	30	30	11.0	3.05	1.51	17.4	1.90	4.59	0.98
L 50 X 50 X 6	4.47	50	6	7	3.50	5.69	1.45	3.54	2.04	13	30	30	12.8	3.61	1.50	20.4	1.89	5.24	0.96
L 55 X 55 X 6	4.95	55	6	8	4	6.31	1.56	3.89	2.21	17	30	30	17.3	4.40	1.66	27.4	2.08	7.24	1.07
L 60 X 60 X 5	4.57	60	5	8	4	5.82	1.64	4.24	2.32	17	35	35	19.4	4.45	1.82	30.7	2.30	8.03	1.17
L 60 X 60 X 6	5.42	60	6	8	4	6.91	1.69	4.24	2.39	17	35	35	22.8	5.29	1.82	36.1	2.29	9.43	1.17
L 60 X 60 X 8	7.09	60	8	8	4	9.03	1.77	4.24	2.50	17	35	35	29.1	6.88	1.80	46.1	2.26	12.1	1.16
L 65 X 65 X 7	6.83	65	7	9	4.50	8.70	1.85	4.60	2.62	21	35	35	33.4	7.18	1.96	53.0	2.47	13.8	1.26
L 70 X 70 X 6	6.38	70	6	9	4.50	8.13	1.93	4.95	2.73	21	40	40	36.9	7.27	2.13	58.5	2.68	15.3	1.37
L 70 X 70 X 7	7.38	70	7	9	4.50	9.40	1.97	4.95	2.79	21	40	40	42.4	8.43	2.12	67.1	2.67	17.6	1.37
L 70 X 70 X 9	9.34	70	9	9	4.50	11.9	2.05	4.95	2.90	21	40	40	52.6	10.6	2.10	83.1	2.64	22.0	1.36
L 75 X 75 X 7	7.94	75	7	10	5	10.1	2.09	5.30	2.95	23	40	40	52.4	9.67	2.28	83.6	2.88	21.1	1.45
L 75 X 75 X 8	9.03	75	8	10	5	11.5	2.13	5.30	3.01	23	40	40	58.9	11.0	2.26	93.3	2.85	24.4	1.46
L 80 X 80 X 7	8.49	80	7	10	5	10.8	2.21	5.66	3.13	23	45	45	64.2	11.1	2.44	102	3.07	26.5	1.57
L 80 X 80 X 8	9.66	80	8	10	5	12.3	2.26	5.66	3.20	23	45	45	72.3	12.6	2.42	115	3.06	29.6	1.55
L 80 X 80 X 10	11.9	80	10	10	5	15.1	2.34	5.66	3.31	23	45	45	87.5	15.5	2.41	139	3.03	35.9	1.54
L 90 X 90 X 8	10.9	90	8	11	5.5	13.9	2.50	6.36	3.53	25	50	50	104	16.1	2.74	165	3.45	43.5	1.77
L 90 X 90 X 9	12.2	90	9	11	5.5	15.5	2.54	6.36	3.59	25	50	50	116	18.0	2.74	184	3.45	47.8	1.76
L 90 X 90 X 11	14.7	90	11	11	5.5	18.7	2.62	6.36	3.70	25	50	50	138	21.6	2.72	218	3.41	57.1	1.75

Σειρά Li



Τύπος Διατομής	G	h	b	t	r ₁	r ₂	A	z _s	y _s	tanα	d1	d2	e _{z1}	e _{z2}	e _y	I _y	W _{ely}	i _y	I _z	W _{etz}	i _z	I _u	i _u	I _v	i _v
L50X30X5	2.96	50	30	5	4.5	2	3.78	1.73	0.74	0.353	8.4	13	30	-	17	9.41	2.88	1.58	2.54	1.12	0.82	10.4	1.66	1.56	0.64
L50X40X4	2.71	50	40	4	4	2	3.46	1.52	1.03	0.629	11	13	30	-	22	8.54	2.47	1.57	4.86	1.64	1.19	10.9	1.78	2.46	0.84
L50X40X5	3.35	50	40	5	4	2	4.27	1.56	1.07	0.625	11	13	30	-	22	10.4	3.02	1.56	5.89	2.01	1.18	13.3	1.76	3.02	0.84
L60X30X5	3.37	60	30	5	6	3	4.29	2.15	0.68	0.256	8.4	17	35	-	17	15.6	4.04	1.90	2.60	1.12	0.78	16.5	1.96	1.69	0.63
L60X40X5	3.76	60	40	5	6	3	4.79	1.96	0.97	0.437	11	17	35	-	22	17.2	4.25	1.89	6.11	2.02	1.13	19.8	2.03	3.50	0.86
L60X40X6	4.46	60	40	6	6	3	5.68	2.00	1.01	0.433	11	17	35	-	22	20.1	5.03	1.88	7.12	2.38	1.12	23.1	2.02	4.12	0.85
L65X50X5	4.35	65	50	5	6.5	3.5	5.54	1.99	1.25	0.583	13	21	35	-	30	23.1	5.11	2.04	11.9	3.18	1.47	28.8	2.28	6.21	1.06
L75X50X5	4.74	75	50	5	6.5	3.5	6.04	2.40	1.17	0.437	13	23	40	-	30	34.4	6.74	2.39	12.3	3.21	1.43	39.6	2.56	7.10	1.08
L75X50X7	6.51	75	50	7	6.5	3.5	8.30	2.48	1.25	0.433	13	23	40	-	30	46.4	9.24	2.36	16.3	4.39	1.41	53.3	2.53	9.56	1.07
L75X55X5	4.95	75	55	5	7	3.5	6.30	2.31	1.33	0.530	17	23	40	-	30	35.5	6.84	2.37	16.2	3.89	1.60	43.1	2.61	8.68	1.17
L80X40X6	5.41	80	40	6	7	3.5	6.89	2.85	0.88	0.259	11	23	45	-	22	44.9	8.73	2.55	7.59	2.44	1.05	47.6	2.63	4.90	0.84
L80X65X6	6.60	80	65	6	8	4	8.41	2.39	1.65	0.649	21	23	45	-	35	52.8	9.41	2.51	31.2	6.44	1.93	68.5	2.85	15.6	1.36
L80X65X8	8.66	80	65	8	8	4	11.0	2.47	1.73	0.645	21	23	45	-	35	68.1	12.3	2.49	40.1	8.41	1.91	88.0	2.82	20.3	1.36
L90X60X6	6.82	90	60	6	7	3.5	8.69	2.89	1.41	0.442	17	25	50	-	35	71.7	11.7	2.87	25.8	5.61	1.72	82.8	3.09	14.6	1.30
L100X50X6	6.85	100	50	6	9	4.5	8.73	3.49	1.04	0.263	13	25	45	60	30	89.7	13.8	3.20	15.3	3.86	1.32	95.2	3.30	9.78	1.06
L100X50X8	8.99	100	50	8	9	4.5	11.5	3.59	1.13	0.258	13	25	45	60	30	116	18.0	3.18	19.5	5.04	1.31	123	3.28	12.6	1.05
L100X65X7	8.77	100	65	7	10	5	11.2	3.23	1.51	0.419	21	25	45	60	35	113	16.6	3.17	37.6	7.54	1.84	128	3.39	21.6	1.39
L100X75X7	9.32	100	75	7	10	5	11.9	3.06	1.83	0.553	23	25	45	60	40	118	17.0	3.15	56.9	10.0	2.19	145	3.49	30.1	1.59
L100X75X9	11.8	100	75	9	10	5	15.1	3.15	1.91	0.549	23	25	45	60	40	148	21.5	3.13	71.0	12.7	2.17	181	3.47	37.8	1.59