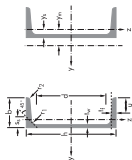


EUROPEAN STANDARD CHANNELS (UPN)
DIMENSIONS: DIN 10261 - 1:2000, NF A 45202 (1983)
TOLERANCES: EN 10279 : 2000

Designation	G kg/m	Dimensions						A mm	Dimensions for Detailing				Surface	
		h mm	b mm	t _w mm	t _f mm	r ₁ mm	r ₂ mm		d mm	Ø	e _{min} mm	e _{max} mm	A _L mm	A _g m/t
UPN 80	08.64	80	45	6.0	8.0	8.0	4.00	11.0	46	-	-	-	0.312	36.13
UPN 100	10.60	100	50	6.0	8.5	8.5	4.50	13.5	64	M10	31	34	0.372	35.1
UPN 120	13.40	120	55	7.0	9.0	9.0	4.50	17.0	82	M10	32	39	0.434	32.52
UPN 140	16.00	140	60	7.0	10.0	10.0	5.00	20.4	98	M12	37	41	0.489	30.54
UPN 160	18.80	160	65	7.5	10.5	10.5	5.50	24.0	115	M16	38	38	0.546	28.98
UPN 180	22.00	180	70	8.0	11.0	11.0	5.50	28.0	133	M16	38	43	0.611	27.8
UPN 200	25.30	200	75	8.5	11.5	11.5	6.00	32.2	151	M16	39	48	0.661	26.15
UPN 220	29.40	220	80	9.0	12.5	12.5	6.50	37.4	167	M20	44	47	0.718	24.46
UPN 240	33.20	240	85	9.5	13.0	13.0	6.50	42.3	184	M20	45	52	0.775	23.34
UPN 260	37.90	260	90	10.0	14.0	14.0	7.00	48.3	200	M24	51	51	0.834	22
UPN 280	41.80	280	95	10.0	15.0	15.0	7.50	53.3	216	M24	52	56	0.890	21.27
UPN 300	46.20	300	100	10.0	16.0	16.0	8.00	58.8	232	M24	53	61	0.950	20.58
UPN 320	59.50	320	100	14.0	17.5	17.5	8.75	75.8	246	M24	59	61	0.982	16.5
UPN 350	60.60	350	100	14.0	16.0	16.0	8.00	77.3	282	M24	57	61	1.047	17.25
UPN 380	63.10	380	102	13.5	16.0	16.0	8.00	80.4	313	M24	57	63	1.110	17.59
UPN 400	71.80	400	110	14.0	18.0	18.0	9.00	91.5	324	M27	59	65	1.182	16.46

EUROPEAN STANDARD CHANNELS (UPN)
DIMENSIONS: DIN 10261 - 1:2000, NF A 45202 (1983)
TOLERANCES: EN 10279 : 2000



Designation	G kg/m	Section Properties												Classification ENV 1993 -1-1			
		Strong axis y-y						Weak axis z-z									
		I _w cm ⁴	W _y cm ³	W _{pl,y} cm ³	I _y cm ⁴	A _{vz} cm ²	I _z cm ⁴	W _z cm ³	W _{pl,z} cm ³	I _{yz} cm ⁴	I _z cm ⁴	S _S cm	I _T cm ⁴	I _w × 10 ³ cm ⁴	Y _S cm	Y _m cm	
UPN 80	8.64	106	26.5	31.8	3.1	5.1	19.4	6.36	12.1	1.33	19.4	2.16	0.17	1.45	2.67		FE 235
UPN 100	10.6	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		FE 235
UPN 120	13.4	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		FE 235
UPN 140	16.0	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		FE 235
UPN 160	18.8	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		FE 235
UPN 180	22.0	1350	150	179	6.95	15.09	114	22.4	42.9	2.02	26.7	9.55	5.57	1.92	3.75		FE 235
UPN 200	25.3	1910	191	228	7.7	17.71	148	27	51.8	2.14	28.1	11.9	9.07	2.01	3.94		FE 235
UPN 220	29.4	2690	245	292	8.48	20.62	197	33.6	64.1	2.3	30.3	16	14.6	2.14	4.2		FE 235
UPN 240	33.2	3600	300	358	9.22	23.71	248	39.6	75.7	2.42	31.7	19.7	22.1	2.23	4.39		FE 235
UPN 260	37.9	4820	371	442	9.99	27.12	317	47.7	91.6	2.56	33.9	25.5	33.3	2.36	4.66		FE 235
UPN 280	41.8	6280	448	532	10.9	29.28	399	57.2	109	2.74	35.6	31	48.5	2.53	5.02		FE 235
UPN 300	46.2	8030	535	632	11.7	31.77	495	67.8	130	2.9	37.3	37.4	69.1	2.7	5.41		FE 235
UPN 320	59.5	10870	679	826	12.1	47.11	597	80.6	152	2.81	43	66.7	96.1	2.6	4.82		FE 235
UPN 350	60.6	12840	734	918	12.9	50.84	570	75	143	2.72	40.7	61.2	114	2.4	4.45		FE 235
UPN 380	63.1	15760	829	1014	14	53.23	615	78.7	148	2.77	40.3	59.1	146	2.38	4.58		FE 235
UPN 400	71.8	20350	1020	1240	14.9	58.55	846	102	190	3.04	44	81.6	221	2.65	5.11		FE 235