



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

Designation	G kg/m	Dimensions						Dimensions of Detailing					Surface	
		h mm	b mm	tw mm	tf mm	r1 mm	r2 mm	A mm	d mm	o	emin mm	emax mm	AL mm	Ag m/t
UPN 80	8.64	80	45	6	8	8	4	11	46	-	-	-	0.312	36.13
UPN 100	10.6	100	50	6	8.5	8.5	4.5	13.5	64	M10	31	34	0.372	35.1
UPN 120	13.4	120	55	7	9	9	4.5	17	82	M10	32	39	0.434	32.52
UPN 140	16	140	60	7	10	10	5	20.4	98	M12	37	41	0.489	30.54
UPN 160	18.8	160	65	7.5	10.5	10.5	5.5	24	115	M16	38	38	0.546	28.98
UPN 180	22	180	70	8	11	11	5.5	28	133	M16	38	43	0.611	27.8
UPN 200	25.3	200	75	8.5	11.5	11.5	6	32.2	151	M16	39	48	0.661	26.15
UPN 220	29.4	220	80	9	12.5	12.5	6.5	37.4	167	M20	44	47	0.718	24.46
UPN 240	33.2	240	85	9.5	13	13	6.5	42.3	184	M20	45	52	0.775	23.34
UPN 260	37.9	260	90	10	14	14	7	48.3	200	M24	51	51	0.834	22
UPN 280	41.8	280	95	10	15	15	7.5	53.3	216	M24	52	56	0.89	21.27
UPN 300	46.2	300	100	10	16	16	8	58.8	232	M24	53	61	0.95	20.58
UPN 320	59.5	320	100	14	17.5	17.5	8.75	75.8	246	M24	59	61	0.982	16.5
UPN 350	60.6	350	100	14	16	16	8	77.3	282	M24	57	61	1.047	17.25
UPN 380	63.1	380	102	13.5	16	16	8	80.4	313	M24	57	63	1.11	17.59
UPN 400	71.8	400	110	14	18	18	9	91.5	324	M27	59	65	1.182	16.46



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Designation	G kg/m	Section Properties														Classification ENV 1993 - 1-1			
		Strong axis y-y					Weak axis z-z									FeE 235	FeE 255	FeE 235	FeE 255
		Iw cm <sup>4</sup>	Wy cm <sup>3</sup>	Wpl.y cm <sup>3</sup>	iy cm	Avz cm <sup>2</sup>	iz cm <sup>4</sup>	Wz cm <sup>3</sup>	Wpl.z cm <sup>3</sup>	iz cm	Ss cm	IT cm <sup>4</sup>	Iwx10 3 cm <sup>4</sup>	Ys cm	Ym 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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
UPN 140	16	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	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	1	1	1	1
UPN 180	22	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	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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
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	1	1	1	1
UPN 400	71.8	20350	1020	1240	14.9	58.55	846	102	190	3.04	44	81.6	221	2.65	5.11	1	1	1	1