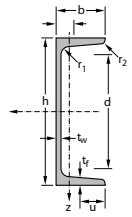


EUROPEAN STANDARD CHANNELS (UPN)

Designation	G	Dimensions					
		h	b	tw	tf	r1	r2
	Kg/m	mm	mm	mm	mm	mm	mm
UPN 80	8.64	80	45	6.0	8.0	8.0	4.00
UPN 100	10.6	100	50	6.0	8.5	8.5	4.50
UPN 120	13.4	120	55	7.0	9.0	9.0	4.50
UPN 140	16	140	60	7.0	10.0	10.0	5.00
UPN 160	18.8	160	65	7.5	10.5	10.5	5.50
UPN 180	22.00	180	70	8.0	11.0	11.0	5.50
UPN 200	25.3	200	75	8.5	11.5	11.5	6.00
UPN 220	29.4	220	80	9.0	12.5	12.5	6.50
UPN 240	33.2	240	85	9.5	13.0	13.0	6.50
UPN 260	37.9	260	90	10.0	14.0	14.0	7.00
UPN 280	41.8	280	95	10.0	15.0	15.0	7.50
UPN 300	46.2	300	100	10.0	16.0	16.0	8.00
UPN 320	59.5	320	100	14.0	17.5	17.5	8.75
UPN 380	63.1	380	102	13.5	16.0	16.0	8.00
UPN 400	71.8	400	110	14.0	18.0	18.0	9.00



	Dimensions for detailing					Surface	
	A	d	0	emin	emax	AL	Ag
	cm ²	mm		mm	mm	m ² /m	m ² /t
11.0	46	-	-	-	-	0.312	36.13
13.5	64	M10	31	34		0.372	35.1
17.0	82	M10	32	39		0.434	32.52
20.4	98	M12	37	41		0.489	30.54
24.0	115	M16	38	38		0.546	28.98
28.0	133	M16	38	43		0.611	27.8
32.2	151	M16	39	48		0.661	26.15
37.4	167	M20	44	47		0.718	24.46
42.3	184	M20	45	52		0.775	23.34
48.3	200	M24	51	51		0.834	22
53.3	216	M24	52	56		0.890	21.27
58.8	232	M24	53	61		0.950	20.58
75.8	246	M24	59	61		0.982	16.5
80.4	313	M24	57	63		1.110	17.59
91.5	324	M27	59	65		1.182	16.46

**Grades Available:
S275JR / S355JO**