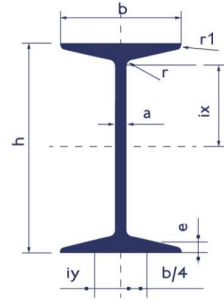


Designación del Perfil	Altura	Ala	Espesor Alma	Espesor Ala	Radios de Acuerdo		Centro de Gravedad	Sección Nominal	Masa Nominal	Momento de Inercia		Módulo Resistente		Radio de Giro	
	h	b	a	e	r	r <sub>1</sub>	e <sub>y</sub>	S	G	I <sub>x</sub>	I <sub>y</sub>	W <sub>x</sub>	W <sub>y</sub>	i <sub>x</sub>	i <sub>y</sub>
	mm	mm	mm	mm	mm	mm	cm	cm <sup>2</sup>	Kg/m	cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm	cm
UPN 80	80	45	6.0	8.0	8.0	4.0	1.45	11.0	<b>8.6</b>	106	19.4	26.5	6.36	3.10	1.33
UPN 100	100	50	6.0	8.5	8.5	4.5	1.55	13.5	<b>10.6</b>	206	29.3	41.2	8.49	3.91	1.47
UPN 120	120	55	7.0	9.0	9.0	4.5	1.60	17.0	<b>13.4</b>	364	43.2	60.7	11.1	4.62	1.55
UPN 140	140	60	7.0	10.0	10.0	5.0	1.75	20.4	<b>16.0</b>	605	62.7	86.4	14.8	5.45	1.75
UPN 160	160	65	7.5	10.5	10.5	5.5	1.84	24.0	<b>18.8</b>	925	85.3	116.0	18.3	6.21	1.89
UPN 180	180	70	8.0	11.0	11.0	5.5	1.92	28.0	<b>22.0</b>	1350	114.0	150.0	22.4	6.95	2.02
UPN 200	200	75	8.5	11.5	11.5	6.0	2.01	32.2	<b>25.3</b>	1910	148.0	191.0	27.0	7.70	2.14
UPN 220	220	80	9.0	12.5	12.5	6.5	2.14	37.4	<b>29.4</b>	2690	197.0	245.0	33.6	8.48	2.26
UPN 240	240	85	9.5	13.0	13.0	6.5	2.23	42.3	<b>33.2</b>	3600	248.0	300.0	39.6	9.22	2.42
UPN 260	260	90	10.0	14.0	14.0	7.0	2.36	48.3	<b>37.9</b>	4820	317.0	371.0	47.7	9.99	2.56
UPN 280	280	95	10.0	15.0	15.0	7.5	2.53	53.3	<b>41.8</b>	6280	399.0	448.0	57.2	10.90	2.74
UPN 300	300	100	10.0	16.0	16.0	8.0	2.70	58.8	<b>46.2</b>	8030	495.0	535.0	67.8	11.70	2.90
UPN 320	320	100	14.0	17.5	17.5	8.7	2.60	75.8	<b>59.5</b>	10870	597.0	679.0	80.6	12.10	2.81
UPN 400	400	110	14.0	18.0	18.0	9.0	2.65	91.5	<b>71.8</b>	20350	846.0	1020.0	102.0	14.90	3.04

Designación del Perfil	Altura	Ala	Espesor Alma	Espesor Ala	Radios de Acuerdo		Centro de Gravedad	Sección Nominal	Masa Nominal	Momento de Inercia		Módulo Resistente		Radio de Giro	
	h	b	a	e	r	r <sub>1</sub>	e <sub>y</sub>	S	G	I <sub>x</sub>	I <sub>y</sub>	W <sub>x</sub>	W <sub>y</sub>	i <sub>x</sub>	i <sub>y</sub>
	mm	mm	mm	mm	mm	mm	Cm	Cm <sup>2</sup>	Kg/m	Cm <sup>4</sup>	Cm <sup>4</sup>	Cm <sup>3</sup>	Cm <sup>3</sup>	Cm	Cm
UL 40x20	40	20	5.0	5.0	5.0	2.5	0.67	3.66	<b>2.9</b>	7.58	1.1	3.79	0.86	1.44	0.56
UL 50x25	50	25	5.0	6.0	6.0	3.0	0.81	4.92	<b>3.9</b>	16.80	2.5	6.73	1.48	1.85	0.71
UL 50x38	50	38	5.0	7.0	7.0	3.5	1.37	7.12	<b>5.6</b>	26.40	3.1	10.6	3.75	1.92	1.13
UL 65x42	65	42	5.5	7.5	7.5	4.0	1.42	9.03	<b>7.1</b>	57.50	14.1	17.7	5.07	2.52	1.25



Designación del Perfil	Altura	Ala	Espesor Alma	Espesor Ala	Radios de Acuerdo		Sección Nominal	Masa Nominal	Momento de Inercia		Módulo Resistente		Radio de Giro	
	h	b	a	e	r	r <sub>1</sub>	S	G	I <sub>x</sub>	I <sub>y</sub>	W <sub>x</sub>	W <sub>y</sub>	i <sub>x</sub>	i <sub>y</sub>
	mm	mm	mm	mm	mm	mm	cm <sup>2</sup>	Kg/m	cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm <sup>3</sup>	cm	cm
IPN 80	80	42	3.9	5.9	3.9	2.3	7.6	<b>5.9</b>	77.8	6.29	19.5	3.00	3.20	0.91
IPN 100	100	50	4.5	6.8	4.5	2.7	10.6	<b>8.3</b>	171	12.2	34.2	4.88	4.01	1.07
IPN 120	120	58	5.1	7.7	5.1	3.1	14.2	<b>11.2</b>	328	21.5	54.7	7.41	4.81	1.23
IPN 140	140	66	5.7	8.6	5.7	3.4	18.3	<b>14.3</b>	573	35.2	81.9	10.7	5.61	1.40
IPN 160	160	74	6.3	9.5	6.3	3.8	22.8	<b>17.9</b>	935	54.7	117	14.8	6.40	1.55
IPN 180	180	82	6.9	10.4	6.9	4.1	27.9	<b>21.9</b>	1450	81.3	161	19.8	7.20	1.71
IPN 200	200	90	7.5	11.3	7.5	4.5	33.5	<b>26.2</b>	2140	117	214	26.0	8.00	1.87
IPN 220	220	98	8.1	12.2	8.1	4.9	39.6	<b>31.1</b>	3060	162	278	33.1	8.80	2.02
IPN 240	240	106	8.7	13.1	8.7	5.2	46.1	<b>36.2</b>	4250	221	354	41.7	9.59	2.20
IPN 260	260	113	9.4	14.1	9.4	5.6	53.3	<b>41.9</b>	5740	288	442	51.0	10.4	2.32
IPN 280	280	119	10.1	15.2	10.1	6.1	61.0	<b>47.9</b>	7590	364	542	61.2	11.1	2.45
IPN 300	300	125	10.8	16.2	10.8	6.5	69.1	<b>54.2</b>	9800	451	653	72.2	11.9	2.56
IPN 320	320	131	11.5	17.3	11.5	6.9	77.7	<b>61.0</b>	12510	555	782	84.7	12.7	2.67
IPN 340	340	137	12.2	18.3	12.2	7.3	86.7	<b>68.0</b>	15700	674	923	98.4	13.5	2.80
IPN 360	360	143	13.0	19.5	13.0	7.8	97.0	<b>76.0</b>	19610	818	1090	114	14.2	2.90
IPN 400	400	155	14.4	21.6	14.4	8.6	118.0	<b>92.4</b>	29210	1160	1460	149	15.7	3.13
IPN 450	450	170	16.2	24.3	16.2	9.7	147.0	<b>115.0</b>	45850	1730	2040	203	17.7	3.43
IPN 500	500	185	18.0	27.0	18.0	10.8	179.0	<b>141.0</b>	68740	2480	2750	268	19.6	3.72