

جدول اشتال تیر آهن IPN

IPN	MECHANICAL PROPERTIES AND DIMENSIONS OF THE SERIE													
	Dimensions						Area A cm ²	Weight G Kg/m	Properties of the section					
	h mm	b mm	t _w = r ₁ mm	t _f mm	r ₂ mm	d mm			Referred to the y-y axis			Referred to the z-z axis		
						I _y cm ⁴	W _y cm ³	i _y cm	I _z cm ⁴	W _z cm ³	i _z cm			
IPN 80	80	45	3.9	5.9	2.3	59	7.58	5.95	77.8	19.5	3.2	6.29	3	0.91
IPN 100	100	50	4.5	6.8	2.7	75	10.6	8.32	171	34.2	4.01	12.2	4.88	1.07
IPN 120	120	58	5.1	7.7	3.1	92	14.2	11.1	328	54.7	4.81	21.5	7.41	1.23
IPN 140	140	66	5.7	8.6	3.4	109	18.3	14.4	573	81.9	5.61	35.2	10.7	1.4
IPN 160	160	74	6.3	9.5	3.8	125	22.8	17.9	935	117	6.4	54.7	14.8	1.55
IPN 180	180	82	6.9	10.4	4.1	142	27.9	21.9	1,450	161	7.2	81.3	19.8	1.71
IPN 200	200	90	7.5	11.3	4.5	159	33.5	26.3	2,140	214	8	117	26	1.87
IPN 220	220	98	8.1	12.2	4.9	175	39.6	31.1	3,060	278	8.8	162	33.1	2.02
IPN 240	240	106	8.7	13.1	5.2	192	46.1	36.2	4,250	354	9.59	221	41.7	2.2
IPN 260	260	113	9.4	14.1	5.6	208	53.4	41.9	5,740	442	10.4	288	51	2.32
IPN 280	280	119	10.1	15.2	6.1	225	61.1	48	7,590	542	11.1	364	61.2	2.45
IPN 300	300	125	10.8	16.2	6.5	241	69.1	54.2	9,800	653	11.9	451	72.2	2.56
IPN 320	320	131	11.5	17.3	6.9	257	77.8	61.1	12,510	782	12.7	555	84.7	2.67
IPN 340	340	137	12.2	18.3	7.3	274	86.8	68.1	15,700	923	13.5	674	98.4	2.8
IPN 360	360	143	13	19.5	7.8	290	97.1	76.2	19,610	1,090	14.2	818	114	2.9
IPN 380	380	149	13.7	20.5	8.2	306	107	84	24,010	1,260	15	975	131	3.02
IPN 400	400	155	14.6	21.6	8.6	323	118	92.6	29,210	1,460	15.7	1,160	148	3.13
IPN 450	450	170	16.2	24.3	9.7	363	147	115	45,850	2,040	17.7	1,730	203	3.43
IPN 500	500	185	18	27	10.8	404	180	141	68,740	2,750	19.6	2,480	268	3.71
IPN 550	550	200	19	30	11.9	444	213	167	99,180	3,610	21.6	3,490	349	4.02
IPN 600	600	215	21.6	32.4	13	485	254	199	139,000	4,630	23.4	4,670	434	4.3

