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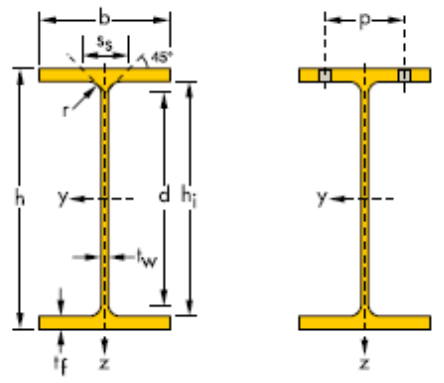
EUROPEAN I BEAMS

Dimensiones: EN 10365:2017
Tolerancias: EN 10034:1993
Estado de la superficie: conforme a EN 10163-3:2004, clase C, subclase 1



Denominación		Dimensiones						Dimensiones de construcción					Superficie	
	G kg/m	h mm	b mm	t_w mm	t_f mm	r mm	A mm^2 x10^2	h_i mm	d mm	Ø	P_{min} mm	P_{max} mm	A_L m^2/m	A_G m^2/t
IPE AA 80	4.9	78	46	3.2	4.2	5	6.3	69.6	59.6	-	-	-	0.325	65.62
IPE A 80	5.0	78	46	3.3	4.2	5	6.4	69.6	59.6	-	-	-	0.325	64.90
IPE 80	6.0	80	46	3.8	5.2	5	7.6	69.6	59.6	-	-	-	0.328	54.64
IPE AA 100	6.7	97.6	55	3.6	4.5	7	8.6	88.6	74.6	-	-	-	0.396	58.93
IPE A 100	6.9	98	55	3.6	4.7	7	8.8	88.6	74.6	-	-	-	0.397	57.57
IPE 100	8.1	100	55	4.1	5.7	7	10.3	88.6	74.6	-	-	-	0.400	49.33
IPE AA 120	8.4	117	64	3.8	4.8	7	10.7	107.4	93.4	-	-	-	0.470	56.26
IPE A 120	8.7	117.6	64	3.8	5.1	7	11.0	107.4	93.4	-	-	-	0.472	54.47
IPE 120	10.4	120	64	4.4	6.3	7	13.2	107.4	93.4	-	-	-	0.475	45.82
IPE AA 140	10.1	136.6	73	3.8	5.2	7	12.8	126.2	112.2	-	-	-	0.546	54.26
IPE A 140	10.5	137.4	73	3.8	5.6	7	13.4	126.2	112.2	-	-	-	0.547	52.05
IPE 140	12.9	140	73	4.7	6.9	7	16.4	126.2	112.2	-	-	-	0.551	42.70
IPE AA 160	12.3	156.4	82	4.0	5.6	9	15.7	145.2	127.2	-	-	-	0.617	50.13
IPE A 160	12.7	157	82	4.0	5.9	9	16.2	145.2	127.2	-	-	-	0.619	48.70
IPE 160	15.8	160	82	5.0	7.4	9	20.1	145.2	127.2	-	-	-	0.623	39.47
IPE AA 180	14.9	176.4	91	4.3	6.2	9	19.0	164.0	146.0	M10	48	48	0.693	46.37
IPE A 180	15.4	177	91	4.3	6.5	9	19.6	164.0	146.0	M10	48	48	0.694	45.15
IPE 180	18.8	180	91	5.3	8.0	9	23.9	164.0	146.0	M10	48	48	0.698	37.13
IPE O 180	21.3	182	92	6.0	9.0	9	27.1	164.0	146.0	M10	50	50	0.705	33.12
IPE AA 200	18.0	196.4	100	4.5	6.7	12	22.9	183.0	159.0	M10	54	58	0.763	42.51
IPE A 200	18.4	197	100	4.5	7.0	12	23.5	183.0	159.0	M10	54	58	0.764	41.49
IPE 200	22.4	200	100	5.6	8.5	12	28.5	183.0	159.0	M10	54	58	0.768	34.36
IPE O 200	25.1	202	102	6.2	9.5	12	32.0	183.0	159.0	M10	56	60	0.779	31.05
IPE AA 220	21.2	216.4	110	4.7	7.4	12	27.0	201.6	177.6	M12	60	62	0.843	39.78
IPE A 220	22.2	217	110	5.0	7.7	12	28.3	201.6	177.6	M12	60	62	0.843	38.02
IPE 220	26.2	220	110	5.9	9.2	12	33.4	201.6	177.6	M12	60	62	0.848	32.36
IPE O 220	29.4	222	112	6.6	10.2	12	37.4	201.6	177.6	M10	66	66	0.858	29.24

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IPE

Denominación		Dimensiones						Dimensiones de construcción					Superficie	
	G kg/m	h mm	b mm	t_w mm	t_f mm	r mm	A mm^2 x10^2	h_i mm	d mm	Ø	P_{min} mm	P_{max} mm	A_L m^2/m	A_G m^2/t
IPE AA 240	24.9	236.4	120	4.8	8.0	15	31.7	220.4	190.4	M12	64	68	0.917	36.86
IPE A 240	26.2	237	120	5.2	8.3	15	33.3	220.4	190.4	M12	64	68	0.918	35.10
IPE 240	30.7	240	120	6.2	9.8	15	39.1	220.4	190.4	M12	66	68	0.922	27.17
IPE O 240	34.3	242	122	7.0	10.8	15	43.7	220.4	190.4	M12	66	70	0.932	27.17
IPE A 270	30.7	267	135	5.5	8.7	15	39.2	249.6	219.6	M16	70	72	1.037	33.75
IPE 270	36.1	270	135	6.6	10.2	15	45.90	249.6	219.6	M16	72	72	1.041	28.86
IPE O 270	42.3	274	136	7.5	12.2	15	53.8	249.6	219.6	M16	72	72	1.051	24.88
IPE A 300	36.5	298	150	6.1	9.2	15	46.5	278.6	248.6	M16	72	86	1.156	31.65
IPE 300	42.2	300	150	7.1	10.7	15	53.8	278.6	248.6	M16	72	86	1.160	27.46
IPE O 300	49.3	304	152	8.0	12.7	15	62.8	278.6	248.6	M16	74	88	1.174	23.81
IPE A 330	43.0	327	160	6.5	10.0	18	54.7	307.0	271.0	M16	78	96	1.250	29.09
IPE 330	49.1	330	160	7.5	11.5	18	62.6	307.0	271.0	M16	78	96	1.254	25.52
IPE O 330	57.0	334	162	8.5	13.5	18	72.6	307.0	271.0	M16	80	98	1.268	22.24
IPE A 360	50.2	357.6	170	6.6	11.5	18	64.0	334.6	298.6	M22	86	88	1.351	26.91
IPE 360	57.1	360	170	8.0	12.7	18	72.7	334.6	298.6	M22	88	88	1.353	23.70
IPE 0 360	66.0	364	172	9.2	14.7	18	84.1	334.6	298.6	M22	90	90	1.367	20.69
IPE A 400	57.4	397	180	7.0	12.0	21	73.1	373.0	331.0	M22	94	98	1.464	25.51
IPE 400	66.3	400	180	8.6	13.5	21	84.5	373.0	331.0	M22	96	98	14.67	22.12
IPE O 400	75.7	404	182	9.7	15.5	21	96.4	373.0	331.0	M22	96	100	1.481	73.57
IPE V 400	84	408	182	10.6	17.5	21	107.0	373.0	331.0	M24	96	100	1.487	17.70
IPE A 450	67.2	447	190	7.6	13.1	21	85.6	420.8	378.8	M24	100	102	1.603	23.87
IPE 450	77.6	450	190	9.4	14.6	21	98.8	420.8	378.8	M24	100	102	1.605	20.69
IPE O 450	92.4	456	192	11.0	17.6	21	117.7	420.8	378.8	M24	102	104	1.622	17.56
IPE V 450	107	460	194	12.4	19.6	21	132.0	420.8	378.8	M24	102	104	1.635	15.78
IPE A 500	79.4	497	200	8.4	14.5	21	101.1	468.0	426.0	M24	100	112	1.741	21.94
IPE 500	90.7	500	200	10.2	16.0	21	115.5	468.0	426.0	M24	102	112	1.744	19.23
IPE O 500	107	506	202	12.0	19.0	21	164.1	468.0	426.0	M24	104	114	1.760	16.40
IPE V 500	129	514	204	14.2	23.0	21	164.1	468.0	426.0	M27	104	114	1.780	13.81

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Denominación		Dimensiones						Dimensiones de construcción					Superficie	
	G kg/m	h mm	b mm	t_w mm	t_f mm	r mm	A mm^2 x10^2	h_i mm	d mm	Ø	P_{min} mm	P_{max} mm	A_L m^2/m	A_G m^2/t
IPE A 550	92.1	547	210	9.0	15.7	24	117.3	515.6	467.6	M24	106	122	1.875	20.36
IPE 550	106	550	210	11.1	17.2	24	134.4	515.6	467.6	M24	110	122	1.877	17.78
IPE O 550	123	556	212	12.7	20.2	24	156.1	515.6	467.6	M24	110	122	1.893	15.45
IPE V 550	159	566	216	17.1	25.2	24	202.0	515.6	467.6	M27	110	126	1.921	12.11
IPE A 600	108	597	220	9.8	17.5	24	137.0	562.0	514.0	M27	114	118	2.013	18.78
IPE 600	122	600	220	12.0	19.0	24	156.0	562.0	514.0	M27	116	118	2.015	16.45
IPE O 600	154	610	224	15.0	24.0	24	196.8	562.0	514.0	M27	118	122	2.045	13.24
IPE V 600	184	618	228	18.0	28.0	24	233.8	562.0	514.0	M27	118	126	2.071	11.28
IPE 750x134	134	750	264	12.0	15.5	17	170.6	719.0	685.0	M27	102	158	2.505	18.71
IPE 750x147	147	753	265	13.2	17.0	17	187.5	719.0	685.0	M27	104	164	2.510	17.06
IPE 750x173	173	762	267	14.4	21.6	17	221.3	719.0	685.0	M27	104	166	2.534	14.58
IPE 750x196	196	770	268	15.6	25.4	17	250.8	719.0	685.0	M27	106	166	2.552	12.96
IPE 750x220	220	779	266	16.5	30.0	17	280.7	719.1	685.1	M27	106	164	2.560	11.62

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IPE

Denominación		Propiedades del perfil												Clasificación EN 1993-1-1:2005						EN 10025-2:2004	EN 10025-4:2004	EN 10025:2009
		Eje fuerte y-y					Eje débil z-z							Pure bending y-y			Pure com-pression					
	G	I_y	$W_{el.y}$	$W_{pl.y}$	i_y	A_{VZ}	I_Z	$W_{el.z}$	$W_{pl.z}$	i_z	S_s	I_t	I_w	S235	S355	S460	S235	S355	S460			
	kg/m	mm^4 x10^4	mm^3 x10^3	mm^3 x10^3	mm x10	mm^2 x10^2	mm^4 x10^4	mm^3 x10^3	mm^3 x103	mm x10	mm	$mm4$ x10^4	mm^6 x10^9									
IPE AA 80	4.9	64.1	16.4	18.9	3.19	3.00	6.85	2.98	4.7	1.04	17.5	0.40	0.09	1	1	-	1	1	-	•		•
IPE A 80	5.0	64.4	16.5	19.0	3.18	3.07	6.85	2.98	4.7	1.04	17.6	0.42	0.09	1	1	-	1	1	-	•		•
IPE 80	6.0	80.1	20.0	23.2	3.24	3.58	8.49	3.69	5.8	1.05	20.1	0.70	0.12	1	1	1	1	1	1	•	•	•
IPE AA 100	6.7	136	27.9	31.9	3.98	4.40	12.6	4.57	7.2	1.21	20.8	0.73	0.27	1	1	-	1	1	-	•		•
IPE A 100	6.9	141	28.8	33.0	4.01	4.44	13.1	4.77	7.5	1.22	21.2	0.77	0.28	1	1	-	1	1	-	•		•
IPE 100	8.1	171	34.2	39.4	4.07	5.08	15.9	5.79	9.2	1.24	23.7	1.20	0.35	1	1	1	1	1	1	•	•	•
IPE AA 120	8.4	244	41.7	47.6	4.79	5.36	21.1	6.59	10.4	1.41	21.6	0.95	0.66	1	1	-	1	1	-	•		•
IPE A 120	8.7	257	43.8	49.9	4.83	5.41	22.4	7.00	11.0	1.42	22.2	1.04	0.71	1	1	-	1	1	-	•		•
IPE 120	10.4	318	53.0	60.7	4.90	6.31	27.7	8.65	13.6	1.45	25.2	1.74	0.89	1	1	1	1	1	1	•	•	•
IPE AA 140	10.1	407	59.7	67.6	5.64	6.14	33.8	9.27	14.5	1.63	22.4	1.19	1.46	1	1	-	1	2	-	•		•
IPE A 140	10.5	435	63.3	71.6	5.70	6.21	36.4	10.0	15.5	1.65	23.2	1.36	1.58	1	1	1	1	2	3	•	•	•
IPE 140	12.9	541	77.3	88.3	5.74	7.64	44.9	12.3	19.3	1.65	26.7	2.45	1.98	1	1	1	1	1	2	•	•	•
IPE AA 160	12.3	659	84.3	95.2	6.48	7.74	51.7	12.6	19.7	1.81	25.7	1.81	2.93	1	1	-	1	3	-	•		•
IPE A 160	12.7	689	87.8	99.1	6.53	7.80	54.4	13.3	20.7	1.83	26.3	1.96	3.09	1	1	1	1	3	4	•	•	•
IPE 160	15.8	869	84.3	95.2	6.48	7.74	51.7	12.6	19.7	1.81	25.7	1.81	2.93	1	1	1	1	1	2	•	•	•
IPE AA 180	14.9	1020	116	131	7.32	9.13	78.1	17.2	26.7	20.3	27.2	2.48	5.64	1	1	-	2	3	-	•		•
IPE A 180	15.4	1063	120	135	7.37	9.20	81.9	18.0	28.0	2.05	27.8	2.70	5.93	1	1	1	2	3	4	•	•	•
IPE 180	18.8	1317	146	166	7.42	11.3	101	22.2	34.6	2.05	31.8	4.79	7.43	1	1	1	1	2	3	•	•	•
IPE O 180	21.3	1505	165	189	7.45	12.7	117	25.5	39.9	2.08	34.5	6.76	8.74	1	1	1	1	1	2	•	•	•
IPE AA 200	18.0	1533	156	176	8.19	11.4	112	22.4	35.0	2.21	32.0	3.84	10.1	1	1	-	2	4	-	•		•
IPE A 200	18.4	1591	162	182	8.23	11.5	117	23.4	36.5	2.23	32.6	4.11	10.5	1	1	1	2	4	4	•	•	•
IPE 200	22.4	1943	194	221	8.26	14.0	142	28.5	44.6	2.24	36.7	6.98	13.0	1	1	1	1	2	3	•	•	•
IPE O 200	25.1	2211	219	249	8.32	15.5	169	33.1	51.9	2.30	39.3	9.45	15.6	1	1	1	1	1	2	•	•	•
IPE AA 220	21.2	2219	205	230	9.07	12.8	165	29.9	46.5	2.47	33.6	5.02	17.9	1	1	-	2	4	-	•		•
IPE A 220	22.2	2317	214	240	9.05	13.6	171	31.2	48.5	2.46	34.5	5.69	18.7	1	1	1	2	4	4	•	•	•
IPE 220	26.2	2772	252	285	9.11	15.9	205	37.3	58.1	2.48	38.4	9.07	22.7	1	1	1	1	2	4	•	•	•
IPE O 220	29.4	3134	282	321	9.16	17.7	240	42.8	66.9	2.53	41.1	12.3	26.8	1	1	1	1	2	2	•	•	•

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IPE

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		Eje fuerte y-y					Eje débil z-z							Pure bending y-y			Pure com-pression					
	G	I_y	$W_{el.y}$	$W_{pl.y}$	i_y	A_{VZ}	I_z	$W_{el.z}$	$W_{pl.z}$	i_z	S_s	I_t	I_w	S235	S355	S460	S235	S355	S460			
	kg/m	mm^4 x10^4	mm^3 x10^3	mm^3 x10^3	mm x10	mm^2 x10^2	mm^4 x10^4	mm^3 x10^3	mm^3 x103	mm x10	mm	mm4 x10^4	mm^6 x10^9									
IPE AA 240	24.9	3154	267	298	9.97	15.3	231	38.6	60.0	2.70	38.4	7.33	30.1	1	1	-	3	4	-	•		•
IPE A 240	26.2	3290	278	312	9.94	16.3	240	40.0	62.4	2.68	39.4	8.35	31.3	1	1	1	2	4	4	•	•	•
IPE 240	30.7	3892	324	367	9.97	19.1	284	47.3	73.9	2.69	43.4	12.9	37.4	1	1	1	1	2	4	•	•	•
IPE O 240	34.3	4369	361	410	10.0	21.4	329	53.9	84.4	2.74	46.2	17.2	43.7	1	1	1	1	2	3	•	•	•
IPE A 270	30.7	4917	368	413	11.2	18.8	358	53.0	82.3	3.02	40.5	10.3	59.5	1	1	1	3	4	4	•	•	•
IPE 270	36.1	5790	429	484	11.2	22.1	420	62.2	97.0	3.02	44.6	15.9	70.6	1	1	1	2	3	4	•	•	•
IPE O 270	42.3	6947	507	575	11.4	25.2	514	75.5	118	3.09	49.5	24.9	87.6	1	1	1	1	2	3	•	•	•
IPE A 300	36.5	7173	483	542	12.4	22.3	519	69.2	107	3.34	42.1	13.4	107	1	1	1	3	4	4	•	•	•
IPE 300	42.2	8356	557	628	12.5	25.7	604	80.5	125	3.35	46.1	20.1	126	1	1	1	2	4	4	•	•	•
IPE O 300	49.3	9994	658	744	12.6	29.1	746	98.1	153	3.45	51.0	31.1	158	1	1	1	1	3	4	•	•	•
IPE A 330	43.0	10230	626	702	13.7	27.0	685	85.6	133	3.54	47.6	19.6	172	1	1	1	3	4	4	•	•	•
IPE 330	49.1	11770	713	804	13.7	30.8	788	98.5	154	3.55	51.6	28.2	199	1	1	1	2	4	4	•	•	•
IPE O 330	57.0	13910	833	943	13.8	34.9	960	119	185	3.64	56.6	42.2	246	1	1	1	1	3	4	•	•	•
IPE A 360	50.2	14520	812	907	15.1	29.8	944	111	172	3.84	50.7	26.5	282	1	1	1	4	4	4	•	•	•
IPE 360	57.1	16270	904	1019	15.0	35.1	1043	123	191	3.79	54.5	37.3	314	1	1	1	2	4	4	•	•	•
IPE 0 360	66.0	19050	1047	1186	15.1	40.2	1251	146	227	3.86	59.7	55.8	380	1	1	1	1	3	4	•	•	•
IPE A 400	57.4	20290	1022	1144	16.7	35.8	1171	130	202	4.00	55.6	34.8	432	1	1	1	4	4	4	•	•	•
IPE 400	66.3	23130	1160	1307	16.6	42.7	1318	146	229	3.95	60.2	51.1	490	1	1	1	3	4	4	•	•	•
IPE O 400	75.7	26750	1324	1052	16.7	48.0	1564	172	269	4.03	65.3	73.1	588	1	1	1	2	3	4	•	•	•
IPE V 400	84	30140	1477	1681	16.8	25.5	1766	194	304	4.06	70.0	99.6	673	1	1	1	1	3	4	•	•	•
IPE A 450	67.2	29760	1331	1494	18.7	42.3	1502	158	146	4.19	58.4	45.7	705	1	1	1	4	4	4	•	•	•
IPE 450	77.6	33740	1500	1702	18.5	50.9	1676	176	276	4.12	63.2	66.9	791	1	1	1	3	4	4	•	•	•
IPE O 450	92.4	40920	1795	2046	18.7	59.4	2085	217	341	4.21	70.8	109	998	1	1	1	2	4	4	•	•	•
IPE V 450	107	46200	2008	2301	18.7	66.6	2397	247	389	4.26	76.2	149	1162	1	1	1	1	2	4	•	•	•
IPE A 500	79.4	42930	1728	1946	20.6	50.4	1939	184	302	4.38	62.0	62.8	1125	1	1	1	4	4	4	•	•	•
IPE 500	90.7	48200	1930	2194	20.4	59.9	2142	214	336	4.31	66.8	89.3	1249	1	1	1	3	4	4	•	•	•
IPE O 500	107	57780	2284	2613	20.6	70.2	2622	260	409	4.38	74.6	144	1548	1	1	1	2	4	4	•	•	•
IPE V 500	129	70720	2751	3168	20.7	83.1	3271	320	506	4.46	84.8	241	1971	1	1	1	1	2	3	•	•	•

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IPE

Denominación		Propiedades del perfil												Clasificación EN 1993-1-1:2005						EN 10025-2:2004	EN 10025-4:2004	EN 10025:2009
		Eje fuerte y-y					Eje débil z-z							Pure bending y-y			Pure com-pression					
	G kg/m	I_y mm^4 x10^4	$W_{el.y}$ mm^3 x10^3	$W_{pl.y}$ mm^3 x10^3	i_y mm x10	A_{VZ} mm^2 x10^2	I_z mm^4 x10^4	$W_{el.z}$ mm^3 x10^3	$W_{pl.z}$ mm^3 x103	i_z mm x10	S_s mm	I_t mm4 x10^4	I_w mm^6 x10^9	S235	S355	S460	S235	S355	S460			
IPE A 550	92.1	59980	2193	2475	22.6	60.3	2432	232	362	4.55	68.5	86.5	171	1	1	2	4	4	4	•	•	•
IPE 550	106	67120	244	2787	22.4	72.3	2668	254	401	4.45	73.6	123	1884	1	1	1	4	4	4	•	•	•
IPE O 550	123	79160	2847	3263	22.5	82.7	3224	304	481	4.55	81.2	188	2302	1	1	1	2	4	4	•	•	•
IPE V 550	159	102340	3616	4204	22.5	109	4264	395	632	4.59	95.0	372	3118	1	1	1	1	2	3	•	•	•
IPE A 600	108	82920	2778	3141	24.6	70.1	3116	283	442	4.77	72.9	119	2607	1	1	1	4	4	4	•	•	•
IPE 600	122	92080	3070	3512	24.3	83.8	3387	308	486	4.66	78.1	165	2846	1	1	1	4	4	4	•	•	•
IPE O 600	154	118300	3879	4471	24.5	104	4521	404	640	4.79	91.1	318	3860	1	1	1	2	4	4	•	•	•
IPE V 600	184	141580	4581	5324	24.6	124	5569	488	780	4.88	102	506	4846	1	1	1	1	2	3	•	•	•
IPE 750x134	134	150700	4018	4644	29.7	95.6	4788	362	570	5.30	62.3	122	6440	1	1	2	4	4	4	•	•	•
IPE 750x147	147	166100	4411	5110	29.8	105	5289	399	631	5.31	67.1	162	7141	1	1	2	4	4	4	•	•	•
IPE 750x173	173	205800	5402	6218	30.5	116	6873	515	810	5.57	77.5	274	9391	1	1	1	4	4	4	•	•	•
IPE 750x196	196	240300	6241	7174	31.0	127	8175	610	959	5.71	86.3	409	11290	1	1	1	4	4	4	•	•	•
IPE 750x220	220	278200	7143	8198	31.48	136.3	9440	709.9	1113	5.80	96.42	609.0	13200	1	1	1	3	4	4	•	•	•