



EUROPEAN I BEAMS: Dimensions and Properties (IPE)

Designation	G	h	b	t _w	t _f	r	A	h ₁	d	I _y	I _z	i _y	i _z	W _y	W _z	W _{ply}	W _{plz}	I _w	I _T
	kg/m	mm	mm	mm	mm	mm	cm ²	mm	mm	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	dm ⁶	cm ⁴
IPE 270 A	30.7	267	135	5.5	8.7	15	39.1	249.6	219.6	4917	358	11.2	3.02	368	53.0	412	82.3	0.060	10.4
IPE 270	36.1	270	135	6.6	10.2	15	45.9	249.6	219.6	5790	420	11.2	3.02	429	62.2	484	97.0	0.071	15.9
IPE 270 O	42.3	274	136	7.5	12.2	15	53.8	249.6	219.6	6947	513	11.4	3.09	507	75.5	575	118	0.088	25.0
IPE 270 R	44.0	276	133	7.7	13.1	15	56.0	249.8	219.8	7312	516	11.4	3.03	530	77.6	602	121	0.089	29.1
IPE 300 A	36.5	297	150	6.1	9.2	15	46.5	278.6	248.6	7173	519	12.4	3.34	483	69.2	542	107	0.107	13.3
IPE 300	42.2	300	150	7.1	10.7	15	53.8	278.6	248.6	8356	604	12.5	3.35	557	80.5	628	125	0.126	19.9
IPE 300 O	49.3	304	152	8.0	12.7	15	62.8	278.6	248.6	9994	746	12.6	3.45	658	98.1	744	153	0.158	31.0
IPE 300 R	51.7	306	147	8.5	13.7	15	65.9	278.6	248.6	10500	728	12.6	3.32	686	99.0	780	155	0.155	37.0
IPE 330 A	43.0	327	160	6.5	10.0	18	54.7	307.0	271.0	10230	685	13.7	3.54	626	85.6	702	133	0.172	19.6
IPE 330	49.1	330	160	7.5	11.5	18	62.6	307.0	271.0	11770	788	13.7	3.55	713	98.5	804	154	0.200	28.1
IPE 330 O	57.0	334	162	8.5	13.5	18	72.6	307.0	271.0	13910	960	13.8	3.64	833	119	943	185	0.247	42.2
IPE 330 R	60.3	336	158	9.2	14.5	18	76.8	307.0	271.0	14690	958	13.8	3.53	874	121	995	190	0.247	50.6
IPE 360 A	50.2	357.6	170	6.6	11.5	18	64.0	334.6	298.6	14520	944	15.1	3.84	812	111	907	172	0.283	27.4
IPE 360	57.1	360	170	8.0	12.7	18	72.7	334.6	298.6	16270	1043	15.0	3.79	904	123	1019	191	0.315	37.4
IPE 360 O	66.0	364	172	9.2	14.7	18	84.1	334.6	298.6	19050	1251	15.0	3.86	1047	145	1186	227	0.382	55.7
IPE 360 R	70.3	366	168	9.9	16.0	18	89.6	334.0	298.0	20290	1270	15.0	3.76	1109	151	1262	236	0.389	68.7
IPE 400 A	57.4	397	180	7.0	12.0	21	73.1	373.0	331.0	20290	1171	16.7	4.00	1022	130	1144	202	0.434	36.2
IPE 400	66.3	400	180	8.6	13.5	21	84.5	373.0	331.0	23130	1318	16.5	3.95	1156	146	1307	229	0.492	51.3
IPE 400 O	75.7	404	182	9.7	15.5	21	96.4	373.0	331.0	26750	1564	16.7	4.03	1324	172	1502	269	0.590	73.3
IPE 400 R	81.5	407	178	10.6	17.0	21	104	373.0	331.0	28860	1606	16.7	3.93	1418	180	1618	284	0.611	92.5
IPE 400 V	84.0	408	182	10.6	17.5	21	107	373.0	331.0	30140	1766	16.8	4.06	1477	194	1681	304	0.673	99.6
IPE 450 A	67.2	447	190	7.6	13.1	21	85.5	420.8	378.8	29760	1502	18.7	4.19	1331	158	1494	246	0.707	47.1
IPE 450	77.6	450	190	9.4	14.6	21	98.8	420.8	378.8	33740	1676	18.5	4.12	1500	176	1702	276	0.794	66.7
IPE 450 O	92.4	456	192	11.0	17.6	21	118	420.8	378.8	40920	2085	18.6	4.21	1795	217	2046	341	1.00	109
IPE 450 R	95.2	458	188	11.3	18.6	21	121	420.8	378.8	42400	2070	18.7	4.13	1851	220	2115	346	0.999	123
IPE 450 V	104	460	194	12.4	19.6	21	132	420.8	378.8	46200	2397	18.7	4.26	2009	247	2301	389	1.16	149