

SECTION BARS & SHAPES



To ensure we stay at the forefront of project supply, we carry a full range of BS standard Beams and Columns, Channels, Flats, Angles, Solid Round/ Square Bars and a comprehensive range of European Euronorm Beams, Columns and Channels.

Euronorm steels are manufactured in compliance with European Norm (EN) standards, ensuring consistency, reliability, and international recognition, accompanied with 3.2 Certificates as standard, covering a wide range

of structural, pressure vessel, offshore, shipbuilding, and engineering steels, Euronorm grades are specified for their mechanical performance, chemical composition, and fabrication properties.

By sourcing to Euronorm standards, we guarantee our customers quality-assured, fully traceable materials that meet the strictest requirements of global industries such as oil & gas, offshore wind, shipbuilding, construction, and energy infrastructure.

We supply precision-cut steel sections, bars, and custom profiles designed for strength, versatility, and consistency across structural and industrial applications. Sourced from trusted European mills and backed by full traceability, our products meet exacting standards for dimensional accuracy, weldability, and certified quality. Whether for fabrication, reinforcement, or bespoke engineering, our steel delivers reliable performance you can build on.

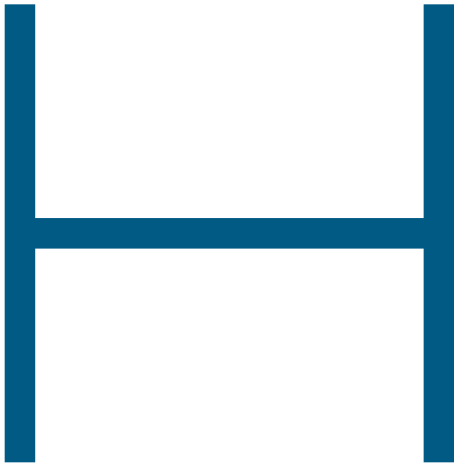
UNIVERSAL COLUMNS
UNIVERSAL BEAMS
EURONORMS
ANGLES
CHANNELS
SOLID ROUND BARS

UNIVERSAL COLUMNS

Specifications:

- BS EN 10225 MLO
- BS EN 10025 S355 ML-50
- BS EN 10025 S355 J2 and K2
- BS EN 10025 S355 JR and JO
- BS EN 10025 S275 J2 and K2
- BS EN 10025 S275 JR and JO
- ASTM A572 GR 50/ASTM 992 GR50
- ASTM A36

Section	Mass per Meter	Depth of Section	Width of Section	Web Thickness	Flange Thickness	Area of Section	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus	
	M	h	b	s	t		x-x	y-y	x-x	y-y	x-x	y-y	x-x	y-y
mm	Kg / m	mm	mm	mm	mm	cm2	cm4	cm4	cm	cm	cm3	cm3	cm3	cm3
152 X 152	23	152.4	152.2	5.8	6.8	29.2	1250	400	6.54	3.7	164	52.6	182	80.2
152 X 152	30	157.6	152.9	6.5	9.4	38.3	1748	560	6.76	3.83	222	73.3	248	112
152 X 152	37	161.8	154.4	8	11.5	47.1	2210	706	6.85	3.87	273	91.5	309	140
203 X 203	46	203.2	203.6	7.2	11	58.7	4568	1548	8.82	5.13	450	152	497	231
203 X 203	52	206.2	204.3	7.9	12.5	66.3	5259	1778	8.91	5.18	510	174	567	264
203 X 203	60	209.6	205.8	9.4	14.2	76.4	6125	2065	8.96	5.2	584	201	656	305
203 X 203	71	215.8	206.4	10	17.3	90.4	7618	2537	9.18	5.3	706	246	799	374
203 X 203	86	222.2	209.1	12.7	20.5	110	9449	3127	9.28	5.34	850	299	977	456
254 X 254	73	254.1	254.6	8.6	14.2	93.1	11410	3908	11.1	6.48	898	307	992	465
254 X 254	89	260.3	256.3	10.3	17.3	113	14270	4857	11.2	6.55	1096	379	1224	575
254 X 254	107	266.7	258.8	12.8	20.5	136	17510	5928	11.3	6.59	1313	458	1484	697
254 X 254	132	276.3	261.3	15.3	25.3	168	22530	7531	11.6	6.69	1631	576	1869	878
254 X 254	167	289.1	265.2	19.2	31.7	213	30000	9870	11.9	6.81	2075	744	2424	1137
305 X 305	97	307.9	305.3	9.9	15.4	123	22250	7308	13.4	7.69	1445	479	1592	726
305 X 305	118	314.5	307.4	12	18.7	150	27670	9059	13.6	7.77	1760	589	1958	895
305 X 305	137	320.5	309.2	13.8	21.7	174	32810	10700	13.7	7.83	2048	692	2297	1053
305 X 305	158	327.1	311.2	15.8	25	201	38750	12570	13.9	7.9	2369	808	2680	1230
305 X 305	198	339.9	314.5	19.1	31.4	252	50900	16300	14.2	8.04	2995	1037	3440	1581
305 X 305	240	352.5	318.4	23	37.7	306	64200	20310	14.5	8.15	3643	1276	4247	1951
305 X 305	283	365.3	322.2	26.8	44.1	360	78870	24630	14.8	8.27	4318	1529	5105	2342
356 X 368	129	355.6	368.6	10.4	17.5	164	40250	14610	15.6	9.43	2264	793	2479	1199
356 X 368	153	362	370.5	12.3	20.7	195	48590	17550	15.8	9.49	2684	948	2965	1435
356 X 368	177	368.2	372.6	14.4	23.8	226	57120	20530	15.9	9.54	3103	1102	3455	1671
356 X 368	202	374.6	374.7	16.5	27	257	66260	23690	16.1	9.6	3538	1264	3972	1920
356 X 406	235	381	394.8	18.4	30.2	299	79080	30990	16.3	10.2	4151	1570	4687	2383
356 X 406	287	393.6	399	22.6	36.5	366	99880	38680	16.5	10.3	5075	1939	5812	2949
356 X 406	340	406.4	403	26.6	42.9	433	122500	46850	16.8	10.4	6031	2325	6999	3544
356 X 406	393	419	407	30.6	49.2	501	146600	55370	17.1	10.5	6998	2721	8222	4154
356 X 406	467	436.6	412.2	35.8	58	595	183000	67830	17.5	10.7	8383	3291	10000	5034
356 X 406	551	455.6	418.5	42.1	67.5	702	226900	82670	18	10.9	9962	3951	12080	6058
356 X 406	634	474.6	424	47.6	77	808	274800	98130	18.4	11	11580	4629	14240	7108



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Section	Mass per Meter	Depth of Section	Width of Section	Web Thickness	Flange Thickness	Area of Section	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus	
	M	h	b	s	t		x-x	y-y	x-x	y-y	x-x	y-y	x-x	y-y
mm	Kg / m	mm	mm	mm	mm	cm2	cm4	cm4	cm	cm	cm3	cm3	cm3	cm3
127 x 76	13	127	76	4	7.6	16.5	473	55.7	5.35	1.84	74.6	14.7	84.2	22.6
152 x 89	16	152.4	88.7	4.5	7.7	20.3	834	89.8	6.41	2.1	109	20.2	123	31.2
178 x 102	19	177.8	101.2	4.8	7.9	24.3	1356	137	7.48	2.37	153	27	171	41.6
203 x 102	23	203.2	101.8	5.4	9.3	29.4	2105	164	8.46	2.36	207	32.2	234	49.8
203 x 133	25	203.2	133.2	5.7	7.8	32	2340	308	8.56	3.1	230	46.2	258	70.9
203 x 133	30	206.8	133.9	6.4	9.6	38.2	2896	385	8.71	3.17	280	57.5	314	88.2
254 x 102	22	254	101.6	5.7	6.8	28	2841	119	10.1	2.06	224	23.5	259	37.3
254 x 102	25	257.2	101.9	6	8.4	32	3415	149	10.3	2.15	266	29.2	306	46
254 x 102	28	260.4	102.2	6.3	10	36.1	4005	179	10.5	2.22	308	34.9	353	54.8
254 x 146	31	251.4	146.1	6	8.6	39.7	4413	448	10.5	3.36	351	61.3	393	94.1
254 x 146	37	256	146.4	6.3	10.9	47.2	5537	571	10.8	3.48	433	78	483	119
254 x 146	43	259.6	147.3	7.2	12.7	54.8	6544	677	10.9	3.52	504	92	566	141
305 x 102	24.8	305.1	101.6	5.8	7	31.6	4455	123	11.9	1.97	292	24.2	342	38.8
305 x 102	28.2	308.7	101.8	6	8.8	35.9	5366	155	12.2	2.08	348	30.5	403	48.5
305 x 102	32.8	312.7	102.4	6.6	10.8	41.8	6501	194	12.5	2.15	416	37.9	481	60
305 x 127	37	304.4	123.3	7.1	10.7	47.2	7171	336	12.3	2.67	471	54.5	539	85.4
305 x 127	41.9	307.2	124.3	8	12.1	53.4	8196	389	12.4	2.7	534	62.6	614	98.4
305 x 127	48.1	311	125.3	9	14	61.2	9575	461	12.5	2.74	616	73.6	711	116
305 x 165	40.3	303.4	165	6	10.2	51.3	8503	764	12.9	3.86	560	92.6	623	142
305 x 165	46.1	306.6	165.7	6.7	11.8	58.7	9899	896	13	3.9	646	108	720	166
305 x 165	54	310.4	166.9	7.9	13.7	68.8	11700	1063	13	3.93	754	127	846	196
356 x 127	33.1	349	125.4	6	8.5	42.1	8249	280	14	2.58	473	44.7	543	70.3
356 x 127	39.1	353.4	126	6.6	10.7	49.8	10170	358	14.3	2.68	576	56.8	659	89.1
356 x 171	45	351.4	171.1	7	9.7	57.3	12070	811	14.5	3.76	687	94.8	775	147
356 x 171	51	355	171.5	7.4	11.5	64.9	14140	968	14.8	3.86	796	113	896	174
356 x 171	57	358	172.2	8.1	13	72.6	16040	1108	14.9	3.91	896	129	1010	199
356 x 171	67.1	363.4	173.2	9.1	15.7	85.5	19460	1362	15.1	3.99	1071	157	1211	243
406 x 140	39	398	141.8	6.4	8.6	49.7	12510	410	15.9	2.87	629	57.8	724	90.8
406 x 140	46	403.2	142.2	6.8	11.2	58.6	15690	538	16.4	3.03	778	75.7	888	118
406 x 178	54.1	402.6	177.7	7.7	10.9	69	18720	1021	16.5	3.85	930	115	1055	178
406 x 178	60	406.4	177.9	7.9	12.8	76.5	21600	1203	16.8	3.97	1063	135	1199	209
406 x 178	67.1	409.4	178.8	8.8	14.3	85.5	24330	1365	16.9	3.99	1189	153	1346	237
406 x 178	74.2	412.8	179.5	9.5	16	94.5	27310	1545	17	4.04	1323	172	1501	267
457 x 152	52.3	449.8	152.4	7.6	10.9	66.6	21370	645	17.9	3.11	950	84.6	1096	133
457 x 152	59.8	454.6	152.9	8.1	13.3	76.2	25500	795	18.3	3.23	1122	104	1287	163
457 x 152	67.2	458	153.8	9	15	85.6	28930	913	18.4	3.27	1263	119	1453	187
457 x 152	74.2	462	154.4	9.6	17	94.5	32670	1047	18.6	3.33	1414	136	1627	213
457 x 152	82.1	465.8	155.3	10.5	18.9	105	36590	1185	18.7	3.37	1571	153	1811	240
457 x 191	67.1	453.4	189.9	8.5	12.7	85.5	29380	1452	18.5	4.12	1296	153	1471	237
457 x 191	74.3	457	190.4	9	14.5	94.6	33320	1671	18.8	4.2	1458	176	1653	272



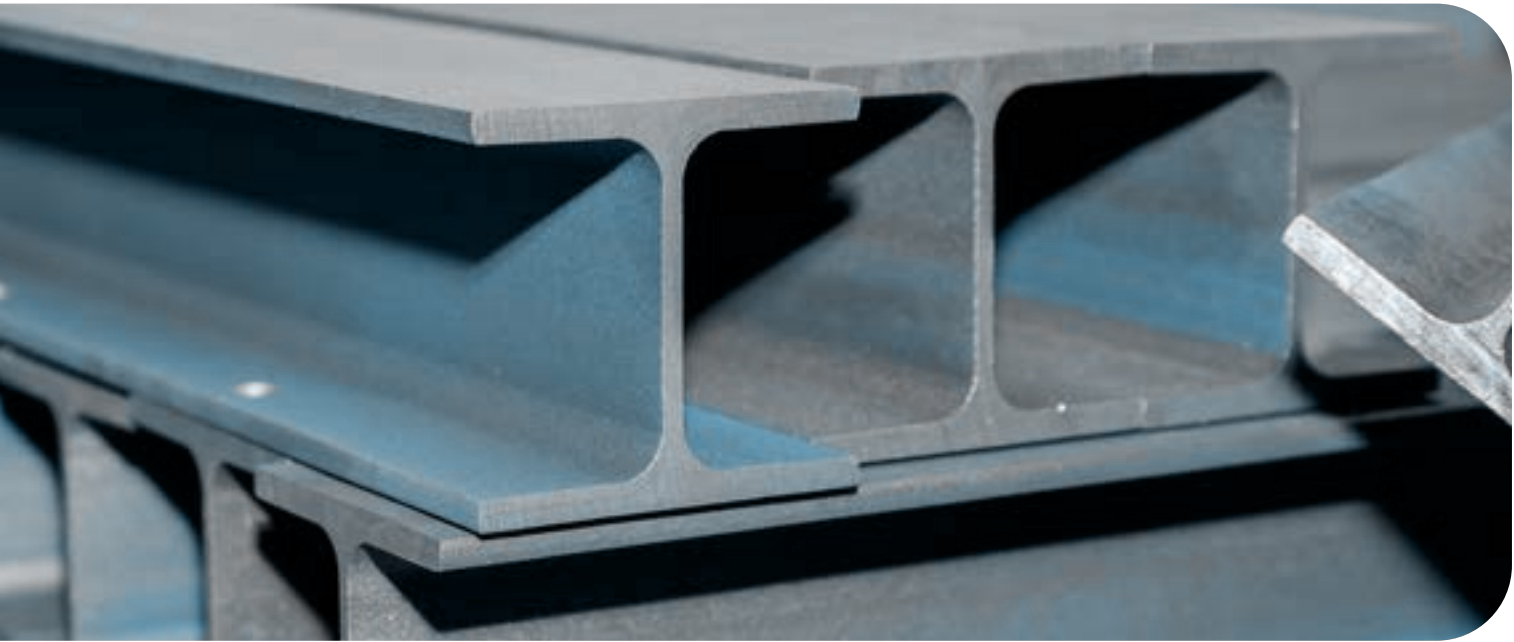
Section	Mass per Meter	Depth of Section	Width of Section	Web Thickness	Flange Thickness	Area of Section	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus	
	M	h	b	s	t		x-x	y-y	x-x	y-y	x-x	y-y	x-x	y-y
mm	Kg / m	mm	mm	mm	mm	cm2	cm4	cm4	cm	cm	cm3	cm3	cm3	cm3
457 x 191	82	460	191.3	9.9	16	104	37050	1871	18.8	4.23	1611	196	1831	304
457 x 191	89.3	463.4	191.9	10.5	17.7	114	41020	2089	19	4.29	1770	218	2014	338
457 x 191	98.3	467.2	192.8	11.4	19.6	125	45730	2347	19.1	4.33	1957	243	2232	379
533 x 210	82.2	528.3	208.8	9.6	13.2	105	47540	2007	21.3	4.38	1800	192	2059	300
533 x 210	92.1	533.1	209.3	10.1	15.6	117	55230	2389	21.7	4.51	2072	228	2360	356
533 x 210	101	536.7	210	10.8	17.4	129	61520	2692	21.9	4.57	2292	256	2612	399
533 x 210	109	539.5	210.8	11.6	18.8	139	66820	2943	21.9	4.6	2477	279	2828	436
533 x 210	122	544.5	211.9	12.7	21.3	155	76040	3388	22.1	4.67	2793	320	3196	500
610 x 229	101.2	602.6	227.6	10.5	14.8	129	75780	2915	24.2	4.75	2515	256	2881	400
610 x 229	113	607.6	228.8	11.1	17.3	144	87320	3434	24.6	4.88	2874	301	3281	469
610 x 229	125.1	612.2	229	11.9	19.6	159	98610	3932	24.9	4.97	3221	343	3676	535
610 x 229	139.9	617.2	230.2	13.1	22.1	178	111800	4505	25	5.03	3622	391	4142	611
610 x 305	149.1	612.4	304.8	11.8	19.7	190	125900	9308	25.7	7	4111	611	4594	937
610 x 305	179	620.2	307.1	14.1	23.6	228	153000	11410	25.9	7.07	4935	743	5547	1144
610 x 305	238.1	635.8	311.4	18.4	31.4	303	209500	15840	26.3	7.23	6589	1017	7486	1574
686 x 254	125.2	677.9	253	11.7	16.2	159	118000	4383	27.2	5.24	3481	346	3994	542
686 x 254	140.1	683.5	253.7	12.4	19	178	136300	5183	27.6	5.39	3987	409	4558	638
686 x 254	152.4	687.5	254.5	13.2	21	194	150400	5784	27.8	5.46	4374	455	5000	710
686 x 254	170.2	692.9	255.8	14.5	23.7	217	170300	6630	28	5.53	4916	518	5631	811
762 x 267	133.9	750	264.4	12	15.5	171	150700	4788	29.7	5.3	4018	362	4644	570
762 x 267	146.9	754	265.2	12.8	17.5	187	168500	5455	30	5.4	4470	411	5156	647
762 x 267	173	762.2	266.7	14.3	21.6	220	205300	6850	30.5	5.58	5387	514	6198	807
762 x 267	196.8	769.8	268	15.6	25.4	251	240000	8175	30.9	5.71	6234	610	7167	959
838 x 292	175.9	834.9	291.7	14	18.8	224	339700	7799	33.1	5.9	5893	535	6808	842
838 x 292	193.8	840.7	292.4	14.7	21.7	247	279200	9066	33.6	6.06	6641	620	7640	974
838 x 292	226.5	850.9	293.8	16.1	26.8	289	339700	11360	34.3	6.27	7985	773	9155	1212
914 x 305	200.9	903	303.3	15.1	20.2	256	325300	9423	35.7	6.07	7204	621	8351	982
914 x 305	224.2	910.4	304.1	15.9	23.9	286	376400	11240	36.3	6.27	8269	739	9535	1163
914 x 305	253.4	918.4	305.5	17.3	27.9	323	436300	13300	36.8	6.42	9501	871	10940	1371
914 x 305	289.1	926.6	307.7	19.5	32	368	504200	15600	37	6.51	10880	1014	12570	1601
914 x 419	343	911.8	418.5	19.4	32	437	625800	39160	37.8	9.46	13730	1871	15480	2890
914 x 419	388	921	420.5	21.4	36.6	494	719600	45440	38.2	9.59	15630	2161	17670	3341
1016 x 305	222	970.3	300	16	21.1	282	406900	9544	38	5.81	8387	636	9784	1019
1016 x 305	249	980.2	300	16.5	26	316	480300	11750	39	6.09	9799	784	11330	1244
1016 x 305	272	990.1	300	16.5	31	346	552900	14000	40	6.36	11170	934	12800	1469
1016 x 305	314	1000	300	19.1	35.9	400	643200	16230	40.1	6.37	12860	1082	14830	1712
1016 x 305	349	1008.1	302	21.1	40	445	722100	18460	40.3	6.44	14330	1222	16570	1940
1016 x 305	393	1016	303	24.4	43.9	500	806600	20490	40.2	6.4	15880	1353	48520	2167
1016 x 305	438	1025.9	305.4	26.9	49	556	908900	23440	40.4	6.49	17720	1535	20740	2467
1016 x 305	487	1036.1	308.5	30	54.1	619	1020400	26720	40.6	6.57	19700	1732	23180	2799

EUROPEAN WIDE FLANGE BEAMS (EURONORMS)

Specifications:

- EN 10225 S355 MLO
- EN 10025 S355 ML
- EN 10025 S355 J2
- EN 10025 S235 JR
- ASTM A 572 GR 50
- ASTM A 36

HEA	German	Theor	Cmmcl	Cm2	Dimensions (mm)				
	Equiv.	Kg/m	Kg/m		Height	Breadth	Web	Flange/t	Radius 1
HEA 100	IPBI 100	16.70	17.10	21.20	96.00	100.00	5.00	8.00	12.00
HEA 120	IPBI 120	19.90	20.40	25.30	114.00	120.00	5.00	8.00	12.00
HEA 140	IPBI 140	24.70	25.30	31.40	133.00	140.00	5.50	8.50	12.00
HEA 160	IPBI 160	30.40	31.20	38.80	152.00	160.00	6.00	9.00	15.00
HEA 180	IPBI 180	35.50	36.40	45.30	171.00	180.00	6.00	9.50	15.00
HEA 200	IPBI 200	42.30	43.20	53.80	190.00	200.00	6.50	10.00	18.00
HEA 220	IPBI 220	50.50	52.00	64.30	210.00	220.00	7.00	11.00	18.00
HEA 240	IPBI 240	60.30	62.00	76.80	230.00	240.00	7.50	12.00	21.00
HEA 260	IPBI 260	68.20	70.00	86.80	250.00	260.00	7.50	12.50	24.00
HEA 280	IPBI 280	76.40	78.00	97.30	270.00	280.00	8.00	13.00	24.00
HEA 300	IPBI 300	88.30	90.00	112.50	290.00	300.00	8.50	14.00	27.00
HEA 320	IPBI 320	97.60	100.00	124.40	310.00	300.00	9.00	15.50	27.00
HEA 340	IPBI 340	105.00	108.00	133.50	330.00	300.00	9.50	16.50	27.00
HEA 360	IPBI 360	112.00	115.00	142.80	350.00	300.00	10.00	17.50	27.00
HEA 400	IPBI 400	125.00	128.00	159.00	390.00	300.00	11.00	19.00	27.00
HEA 450	IPBI 450	140.00	143.00	178.00	440.00	300.00	11.50	21.00	27.00
HEA 500	IPBI 500	155.00	159.00	197.50	490.00	300.00	12.00	23.00	27.00
HEA 550	IPBI 550	166.00	170.00	211.80	540.00	300.00	12.50	24.00	27.00
HEA 600	IPBI 600	178.00	182.00	226.50	590.00	300.00	13.00	25.00	27.00
HEA 650	IPBI 650	190.00	195.00	241.60	640.00	300.00	13.50	26.00	27.00
HEA 700	IPBI 700	204.00	209.00	260.50	690.00	300.00	14.50	27.00	27.00
HEA 800	IPBI 800	224.00	230.00	285.80	790.00	300.00	15.00	28.00	30.00
HEA 900	IPBI 900	252.00	258.00	320.50	890.00	300.00	16.00	30.00	30.00
HEA 1000	IPBI 1000	272.00	279.00	346.80	990.00	300.00	16.50	31.00	30.00



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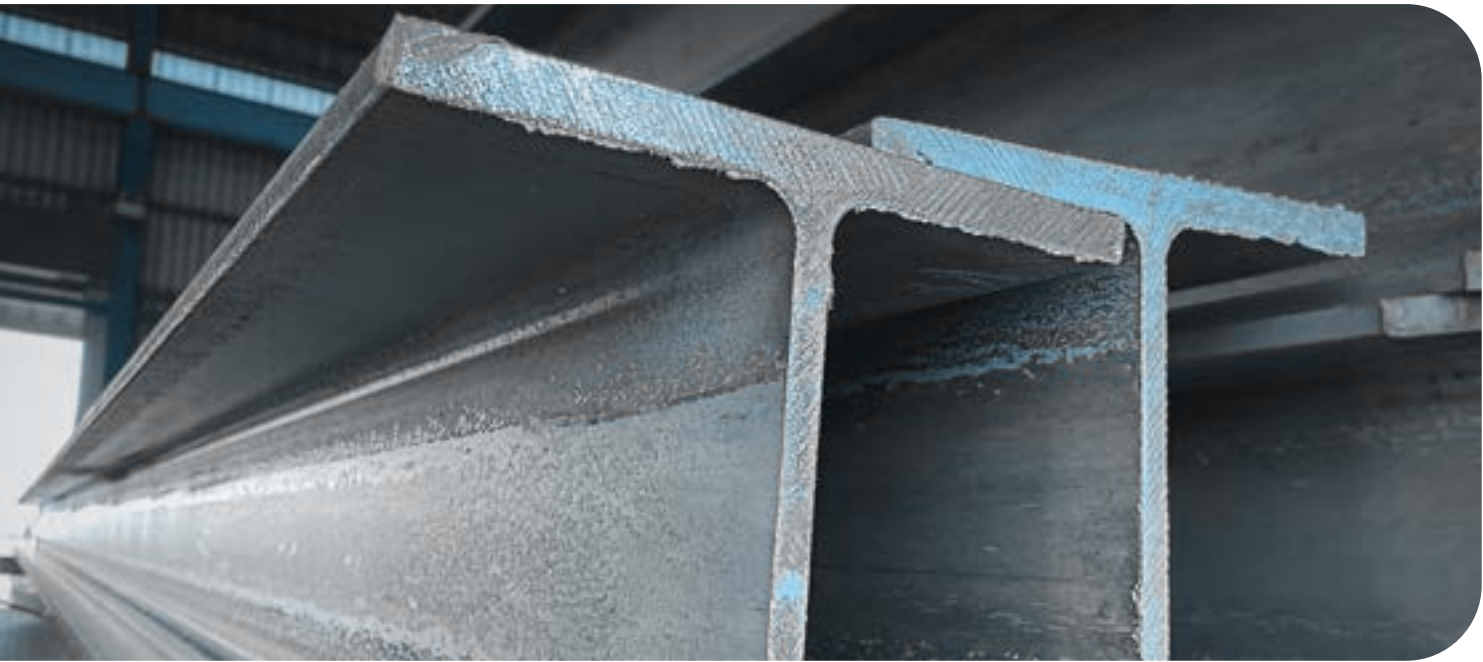
HEA

EUROPEAN WIDE FLANGE BEAMS (EURONORMS)

Specifications:

- EN 10225 S355 MLO
 - EN 10025 S355 ML
 - EN 10025 S355 J2
- EN 10025 S235 JR
 - ASTM A 572 GR 50
 - ASTM A 36

HEB	Theoretical KG/m	Cmmercial Kg/m	cm2	Dimensions				
				Breadth	Height	Web	Flange	Radius
HEB 100	20.4	20.60	26,0	100	100	6	10	12
HEB 120	26.7	26.97	34,0	120	120	6,5	11	12
HEB 140	33.7	34.04	43,0	140	140	7	12	12
HEB 160	42.6	43.03	54,3	160	160	8	13	15
HEB 180	51.2	51.71	65,3	180	180	8,5	14	15
HEB 200	61.3	61.91	78,1	200	200	9	15	18
HEB 220	71.5	72.22	91,0	220	220	9,5	16	18
HEB 240	83.2	84.03	106,0	240	240	10	17	21
HEB 260	93	93.93	118,4	260	260	10	17,5	24
HEB 280	103	104.03	131,4	280	280	10,5	18	24
HEB 300	117	118.17	149,1	300	300	11	19	27
HEB 320	127	128.27	161,3	300	320	11,5	20,5	27
HEB 340	134	135.34	470,9	300	340	12	21,5	27
HEB 360	142	143.42	180,6	300	360	12,5	22,5	27
HEB 400	155	156.55	197,8	300	400	13,5	24	27
HEB 450	171	172.71	218,0	300	450	14	26	27
HEB 500	187	188.87	238,6	300	500	14,5	28	27
HEB 550	199	200.99	254,1	300	550	15	29	27
HEB 600	212	214.12	270,0	300	600	15,5	30	27
HEB 650	225	227.25	286,3	300	650	16	31	27
HEB 700	241	243.41	306,4	300	700	17	32	27
HEB 800	262	264.62	334,2	300	800	17,5	33	30
HEB 900	291	293.91	371,3	300	900	18,5	35	30



HEB

HEB

EUROPEAN WIDE FLANGE BEAMS (EURONORMS)

Specifications:

- EN 10225 S355 MLO
 - EN 10025 S355 ML
 - EN 10025 S355 J2
- EN 10025 S235 JR
 - ASTM A 572 GR 50
 - ASTM A 36

HEM	Theor	Cmmcl	Cm2	Dimensions (mm)				
	Kg/m	Kg/m		Height	Breadth	Web	Flange/t	Radius 1
HEM 100	41.80	42.80	53.20	120.00	106.00	12.00	20.00	12.00
HEM 120	52.10	53.40	66.40	140.00	126.00	12.50	21.00	12.00
HEM 140	63.20	64.80	80.60	160.00	146.00	13.00	22.00	12.00
HEM 160	76.20	78.10	97.10	180.00	166.00	14.00	23.00	15.00
HEM 180	88.90	91.10	113.00	200.00	186.00	14.50	24.00	15.00
HEM 200	103.00	106.00	131.00	220.00	206.00	15.00	25.00	18.00
HEM 220	117.00	120.00	149.00	240.00	226.00	15.50	26.00	18.00
HEM 240	157.00	161.00	200.00	270.00	248.00	18.00	32.00	21.00
HEM 260	172.00	176.00	220.00	290.00	268.00	18.00	32.50	24.00
HEM 280	189.00	194.00	240.00	310.00	288.00	18.50	33.00	24.00
HEM 300	238.00	244.00	303.00	340.00	310.00	21.00	39.00	27.00
HEM 320	245.00	251.00	312.00	359.00	309.00	21.00	40.00	27.00
HEM 340	248.00	254.00	316.00	377.00	309.00	21.00	40.00	27.00
HEM 360	250.00	256.00	319.00	395.00	308.00	21.00	40.00	27.00
HEM 400	256.00	262.00	326.00	432.00	307.00	21.00	40.00	27.00
HEM 450	263.00	270.00	335.00	478.00	307.00	21.00	40.00	27.00
HEM 500	270.00	277.00	344.00	524.00	306.00	21.00	40.00	27.00
HEM 550	278.00	285.00	354.00	572.00	306.00	21.00	40.00	27.00
HEM 600	285.00	292.00	364.00	620.00	305.00	21.00	40.00	27.00
HEM 650	293.00	300.00	374.00	668.00	305.00	21.00	40.00	27.00
HEM 700	301.00	309.00	383.00	716.00	304.00	21.00	40.00	27.00
HEM 800	317.00	325.00	404.00	814.00	303.00	21.00	40.00	30.00
HEM 900	333.00	341.00	424.00	910.00	302.00	21.00	40.00	30.00



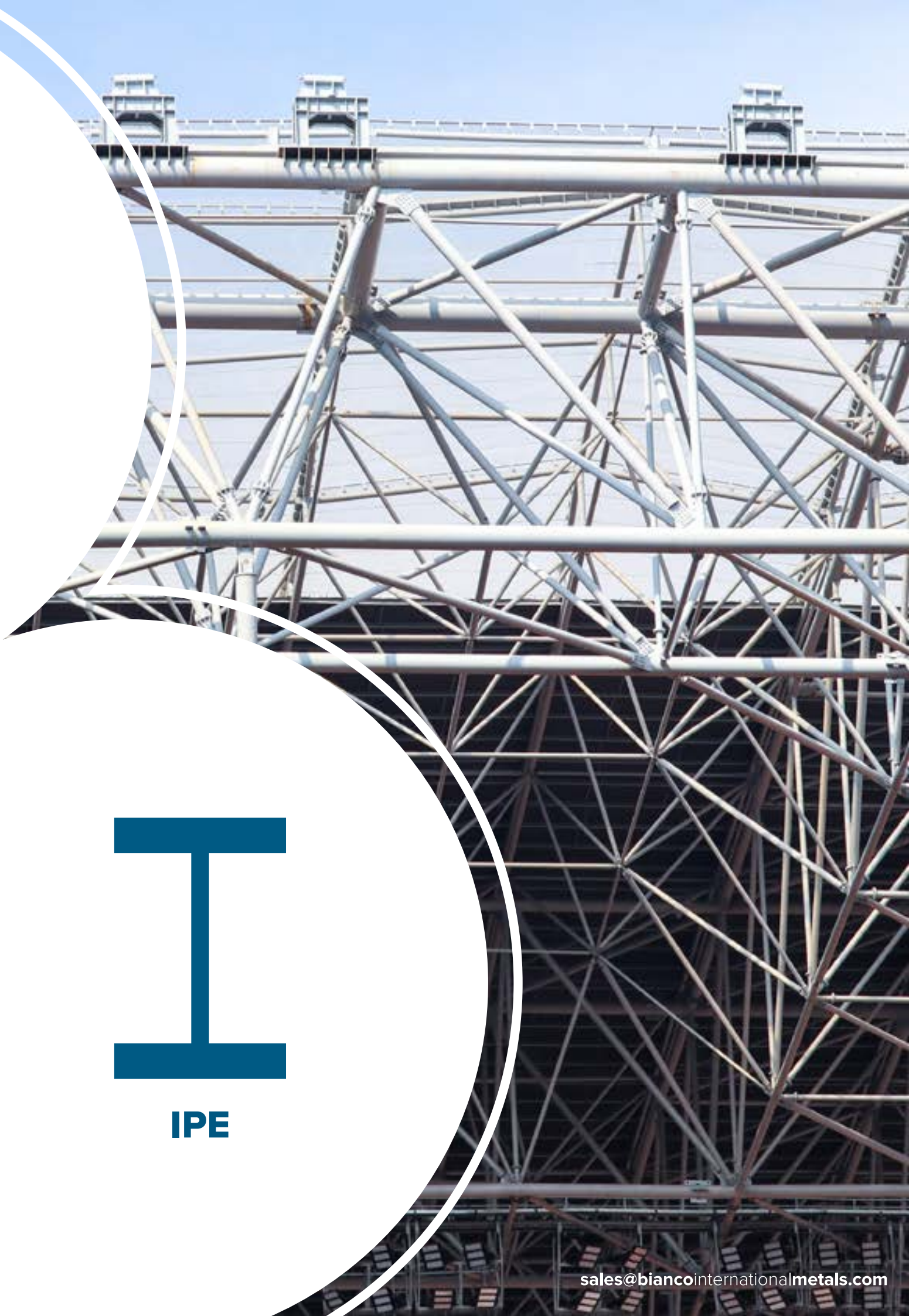
HEM

HEM

EUROPEAN LIGHT BEAMS WITH PARALLEL FLANGES (EURONORMS)

- Specifications:
- EN 10225 S355 MLO
 - EN 10025 S355 ML
 - EN 10025 S355 J2
 - EN 10025 S235 JR
 - ASTM A 572 GR 50
 - ASTM A 36

IPE	Product Designation	Theor	Cmmcl	Cm ²	Height	Breadth	Web	Flange
		Kg/m	Kg/m		h	b	a	e
IPE 80	IPE 80	6	6.2	7.64	80	46	3.8	5.2
IPE 100	IPE 100	8.1	8.3	10.3	100	55	4.1	5.7
IPE 120	IPE 120	10.4	10.7	13.2	120	64	4.4	6.3
IPE 140	IPE 140	12.9	13.2	16.4	140	73	4.7	6.9
IPE 160	IPE 160	15.8	16.2	20.1	160	82	5	7.4
IPE 180	IPE 180	18.8	19.3	23.9	180	91	5.3	8
IPE 200	IPE 200	22.4	23	28.5	200	100	5.6	8.5
IPE 220	IPE 220	26.2	26.9	33.4	220	110	5.9	9.2
IPE 240	IPE 240	30.7	31.5	39.1	240	120	6.2	9.8
IPE 270	IPE 270	36.1	37	45.9	270	135	6.6	10.2
IPE 300	IPE 300	42.2	43.3	53.8	300	150	7.1	10.7
IPE 330	IPE 330	49.1	50.4	62.6	330	160	7.5	11.5
IPE 360	IPE 360	57.1	58.6	72.7	360	170	8	12.7
IPE 400	IPE 400	66.3	68	84.5	400	180	8.6	13.5
IPE 450	IPE 450	77.6	80	98.8	450	190	9.4	14.6
IPE 500	IPE 500	90.7	93	116	500	200	10.2	16
IPE 550	IPE 550	106	109	134	550	210	11.1	17.2
IPE 600	IPE 600	122	125	156	600	220	12	19

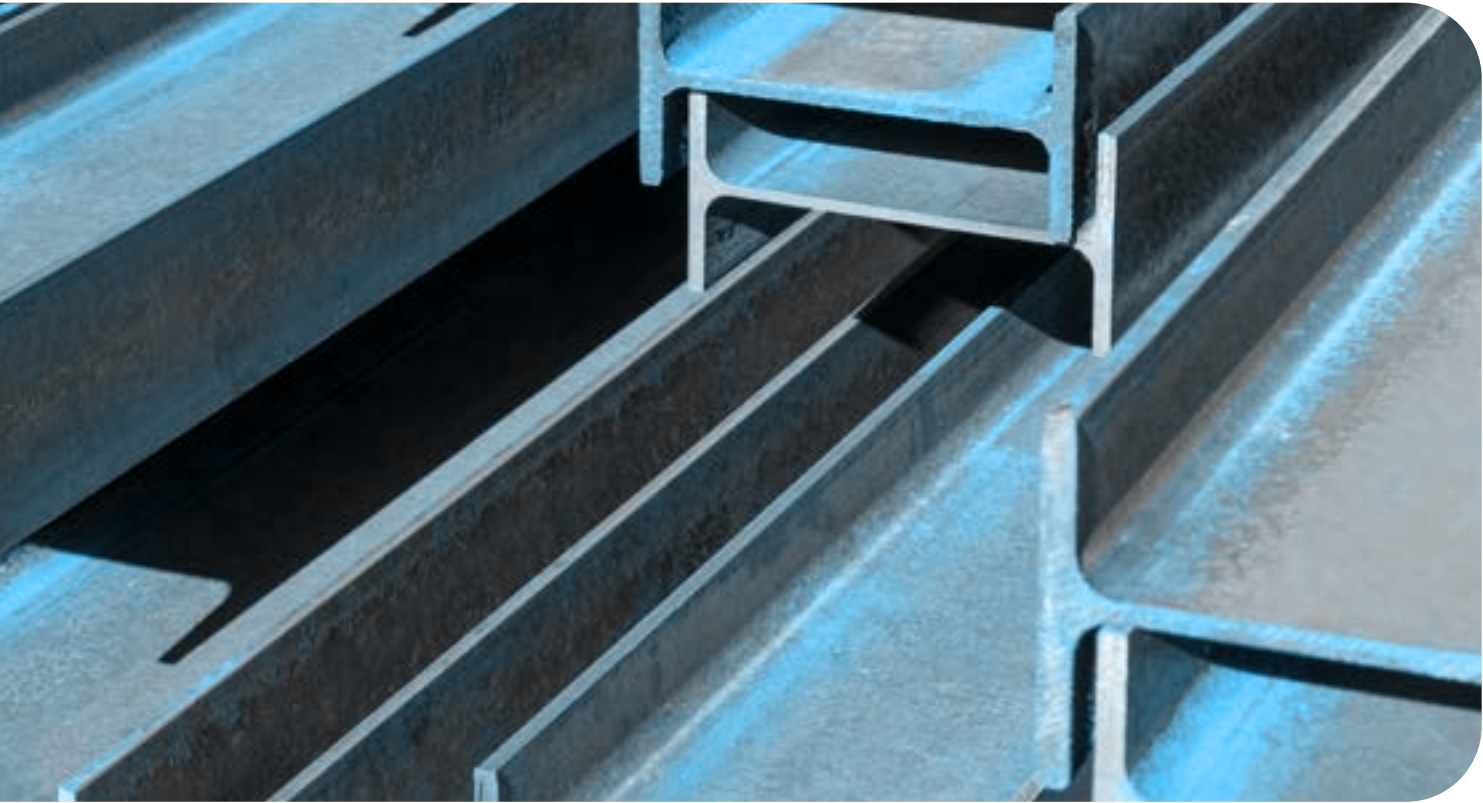


I
IPE

EUROPEAN STANDARD BEAMS (EURONORMS) (14% FLANGE SLOPE)

- Specifications:
- EN 10225 S355 MLO
 - EN 10025 S355 ML
 - EN 10025 S355 J2
 - EN 10025 S235 JR
 - ASTM A 572 GR 50
 - ASTM A 36

IPN	Product	Theor	Cmmcl	Cm²	Dimensions (mm)					
	Designation	Kg/m	K/gm		Height	Breadth	Web	Flange/t	Radius 1	Radius 2
IPN 80	IPN 80	5.94	6.10	7.57	80.00	42.00	3.90	5.90	3.90	2.30
IPN 100	IPN 100	8.34	8.50	10.60	100.00	50.00	4.50	6.80	4.50	2.70
IPN 120	IPN 120	11.10	11.50	14.20	120.00	58.00	5.10	7.70	5.10	3.10
IPN 140	IPN 140	14.30	14.70	18.20	140.00	66.00	5.70	8.60	5.70	3.40
IPN 160	IPN 160	17.90	18.50	22.80	160.00	74.00	6.30	9.50	6.30	3.80
IPN 180	IPN 180	21.90	22.50	27.90	180.00	82.00	6.90	10.40	6.90	4.10
IPN 200	IPN 200	26.20	27.00	33.40	200.00	90.00	7.50	11.30	7.50	4.50
IPN 220	IPN 220	31.10	32.00	39.50	220.00	98.00	8.10	12.20	8.10	4.90
IPN 240	IPN 240	36.20	37.00	46.10	240.00	106.00	8.70	13.10	8.70	5.20
IPN 260	IPN 260	41.90	43.00	53.30	260.00	113.00	9.40	14.10	9.40	5.60
IPN 280	IPN 280	47.90	49.00	61.00	280.00	119.00	10.10	15.20	10.10	6.10
IPN 300	IPN 300	54.20	56.00	69.00	300.00	125.00	10.80	16.20	10.80	6.50
IPN 320	IPN 320	61.00	63.00	77.70	320.00	131.00	11.50	17.30	11.50	6.90
IPN 340	IPN 340	68.00	70.00	86.70	340.00	137.00	12.20	18.30	12.20	7.30
IPN 360	IPN 360	76.10	78.00	97.00	360.00	143.00	13.00	19.50	13.00	7.80
IPN 380	IPN 380	84.00	87.00	107.00	380.00	149.00	13.70	20.50	13.70	8.20
IPN 400	IPN 400	92.40	95.00	118.00	400.00	155.00	14.40	21.60	14.40	8.60
IPN 450	IPN 450	115.00	118.00	147.00	450.00	170.00	16.20	24.30	16.20	9.70



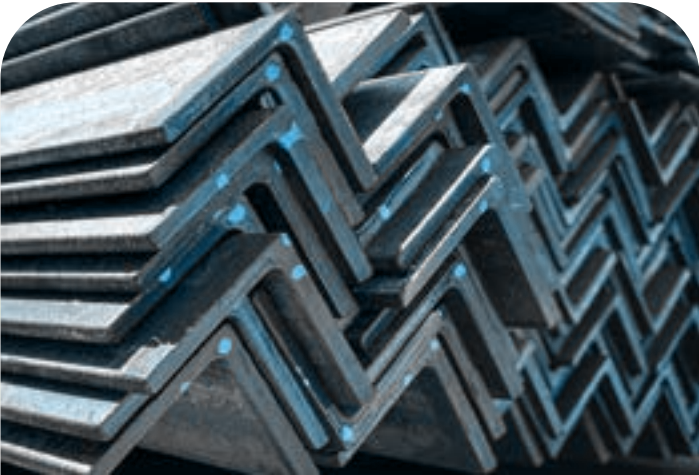
IPN



ANGLES

EQUAL ANGLES		
Size	Thickness	Mass per Meter
mm	mm	Kg /Mtr
20 x 20	3	0.88
25 x 25	3	1.11
25 x 25	5	1.77
25 x 25	6	2.23
30 x 30	3	1.36
30 x 30	5	2.18
40 x 40	3	1.84
40 x 40	4	2.42
40 x 40	5	2.97
40 x 40	6	3.52
45 x 45	3	2.09
45 x 45	5	3.38
45 x 45	6	4
50 x 50	3	2.33
50 x 50	5	3.77
50 x 50	6	4.47
50 x 50	8	5.82
60 x 60	5	4.57
60 x 60	6	5.42
60 x 60	8	7.09
60 x 60	10	8.69
70 x 70	6	6.38
70 x 70	8	8.36
70 x 70	10	10.3
75 x 75	6	6.82
75 x 75	8	8.96
75 x 75	10	11.05
80 x 80	6	7.34
80 x 80	8	9.63
80 x 80	10	11.9
80 x 80	12	14.05
90 x 90	6	8.3
90 x 90	8	10.9
90 x 90	10	13.4
90 x 90	12	15.9
100 x 100	8	12.2
100 x 100	10	15
100 x 100	12	17.8
100 x 100	15	21.9
120 x 120	8	14.7
120 x 120	10	18.2
120 x 120	12	21.6
120 x 120	15	26.6
150 x 150	10	23
150 x 150	12	27.3
150 x 150	15	33.8
200 x 200	16	48.56
200 x 200	20	59.9
200 x 200	24	71.1

UNEQUAL ANGLES		
Size	Thickness	Mass per Meter
mm	mm	Kg /Mtr
40 X 25		1.91
50 X 40	5	3.33
50 X 40	6	3.93
60 X 30	5	3.37
60 X 30	6	3.99
65 X 50	5	4.35
65 X 50	6	5.16
65 X 50	8	6.75
75 X 50	6	5.65
75 X 50	8	7.39
75 X 50	10	8.9
80 X 60	6	6.37
80 X 60	7	7.36
80 X 60	8	8.34
100 X 65	7	8.77
100 X 65	8	9.94
100 X 65	10	12.3
100 X 75	8	10.6
100 X 75	10	13
100 X 75	12	15.4
100 X 75	8	10.6
100 X 75	10	13
100 X 75	12	15.4
125 X 75	8	12.2
125 X 75	10	15
125 X 75	12	17.8
150 X 75	10	17
150 X 75	12	20.2
150 X 75	15	24.8
150 X 90	10	18.2
150 X 90	12	21.6
150 X 90	15	26.6
200 X 100	10	23
200 X 100	12	27.3
200 X 100	15	33.7
200 X 150	12	32
200 X 150	15	39.6
200 X 150	18	47.1



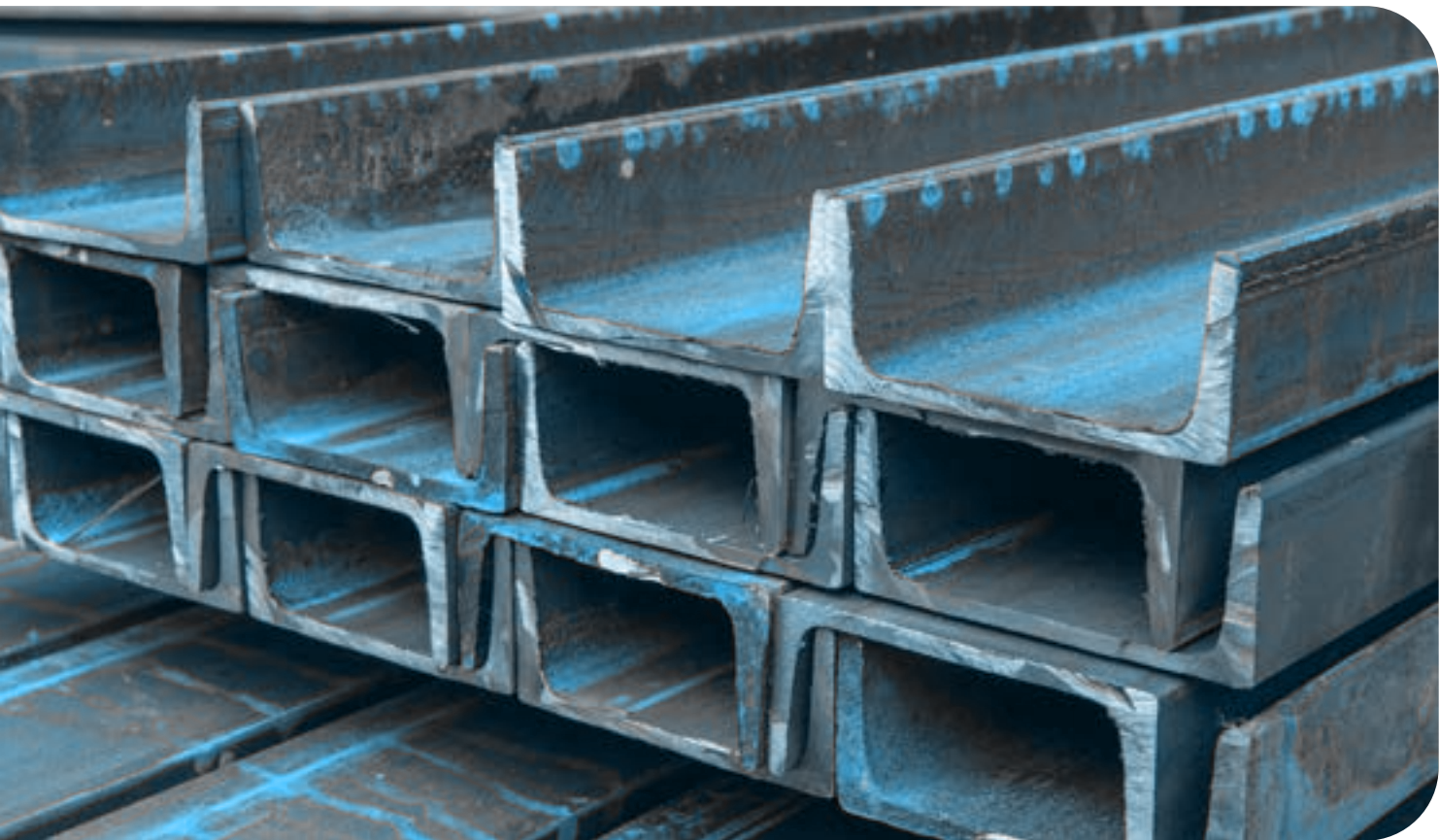
EQUAL & UNEQUAL ANGLES

PARALLEL FLANGE CHANNELS (PFC)

Specifications:

- BS EN 10025 S355 J2

Section	Mass per Meter	Depth of Section	Width of Section	Web Thickness	Flange Thickness	Area of Section	Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus	
	M	h	b	s	t		x-x	y-y	x-x	y-y	x-x	y-y	x-x	y-y
mm	Kg / m	mm	mm	mm	mm	cm2	cm4	cm4	cm	cm	cm3	cm3	cm3	cm3
100 X 50 X 10	10.2	100	50	5	8.5	13	208	32.3	4	1.58	41.5	9.89	48.9	17.5
125 X 65 X15	14.8	125	65	5.5	9.5	18.8	483	80	5.07	2.06	77.3	18.8	89.9	33.2
150 X 75 X 18	17.9	150	75	5.5	10	22.8	861	131	6.15	2.4	115	26.6	132	47.2
150 X 90 X 24	23.9	150	90	6.5	12	30.4	1162	253	6.18	2.89	155	44.4	179	76.9
180 X 75 X 20	20.3	180	75	6	10.5	25.9	1370	146	7.27	2.38	152	28.8	176	51.8
180 X 90 X 26	26.1	180	90	6.5	12.5	33.2	1817	277	7.4	2.89	202	47.4	232	83.5
200 X 75 X 23	23.4	200	75	6	12.5	29.9	1963	170	8.11	2.39	196	33.8	227	60.6
200X 90 X 30	29.7	200	90	7	14	37.9	2523	314	8.16	2.88	252	53.4	291	94.5
230 X 75 X 26	25.7	230	75	6.5	12.5	32.7	2748	181	9.17	2.35	239	34.8	278	63.2
230 X 90 X 32	32.2	230	90	7.5	14	41	3518	334	9.27	2.86	306	55	355	98.9
260 X 75 X 28	27.6	260	75	7	12	35.1	3619	185	10.1	2.3	278	34.4	328	62
260 X 90 X 35	34.8	260	90	8	14	44.4	4728	353	10.3	2.82	364	56.3	425	102
300 X 90 X 41	41.4	300	90	9	15.5	52.7	7218	404	11.7	2.77	481	63.1	568	114
300 X 100 X 46	45.5	300	100	9	16.5	58	8229	568	11.9	3.13	549	81.7	641	148
380 X 100 X 54	54	380	100	9.5	17.5	68.7	15030	643	14.8	3.06	791	89.2	933	161
430 X 100 X 64	64.4	430	100	11	19	82.1	21940	722	16.3	2.97	1020	97.9	1222	176



PFC

EUROPEAN CHANNELS WITH PARALLEL FLANGES

- Specifications:
- EN 10225 S355 MLO
 - EN 10025 S355 ML
 - EN 10025 S355 J2
 - EN 10025 S235 JR
 - ASTM A 572 GR 50
 - ASTM A 36

UPE	Product	Theor	Cm²	Dimensions (mm)					
	Designation	Kg/m		Height	Breadth	Web	Flange/t	Radius 1	Radius 2
UPE 80	UPE 80	7.9	10.1	80	50	4.0	7.0	10	0
UPE 100	UPE 100	9.8	12.5	100	55	4.5	7.5	10	0
UPE 120	UPE 120	12.1	15.4	120	60	5.0	8.0	12	0
UPE 140	UPE 140	14.5	18.4	140	65	5.0	9.0	12	0
UPE 160	UPE 160	17.0	21.7	160	70	5.5	9.5	12	0
UPE 180	UPE 180	19.7	25.1	180	75	5.5	10.5	12	0
UPE 200	UPE 200	22.8	29	200	80	6.0	11.0	13	0
UPE 220	UPE 220	26.6	33.9	220	85	6.5	12.0	13	0
UPE 240	UPE 240	30.2	38.5	240	90	7.0	12.5	15	0
UPE 270	UPE 270	35.2	44.8	270	95	7.5	13.5	15	0
UPE 300	UPE 300	44.4	56.6	300	100	9.5	15.0	15	0
UPE 330	UPE 330	53.2	67.8	330	105	11.0	16.0	18	0
UPE 360	UPE 360	61.2	77.9	360	110	12.0	17.0	18	0
UPE 400	UPE 400	72.2	91.9	400	115	13.5	18.0	18	0

EUROPEAN STANDARD CHANNELS WITH TAPERED FLANGES

UPN	Product	Theor	Cmmcl	Cm²	Dimensions (mm)					
	Designation	Kg/m	Kg/m		Height	Breadth	Web	Flange/t	Radius 1	Radius 2
UPN 80	UPN 80	8.64	8.90	11.00	80.00	45.00	6.00	8.00	8.00	4.00
UPN 100	UPN 100	10.60	10.90	13.50	100.00	50.00	6.00	8.50	8.50	4.50
UPN 120	UPN 120	13.40	13.70	17.00	120.00	55.00	7.00	9.00	9.00	4.50
UPN 140	UPN 140	16.00	16.40	20.40	140.00	60.00	7.00	10.00	10.00	5.00
UPN 160	UPN 160	18.80	19.30	24.00	160.00	65.00	7.50	10.50	10.50	5.50
UPN 180	UPN 180	22.00	22.50	28.00	180.00	70.00	8.00	11.00	11.00	5.50
UPN 200	UPN 200	25.30	26.00	32.20	200.00	75.00	8.50	11.50	11.50	6.00
UPN 220	UPN 220	29.40	30.00	37.40	220.00	80.00	9.00	12.50	12.50	6.50
UPN 240	UPN 240	33.20	34.00	42.30	240.00	85.00	9.50	13.00	13.00	6.50
UPN 260	UPN 260	37.90	39.00	48.30	260.00	90.00	10.00	14.00	14.00	7.00
UPN 280	UPN 280	41.80	43.00	53.30	280.00	95.00	10.00	15.00	15.00	7.50
UPN 300	UPN 300	46.20	48.00	58.80	300.00	100.00	10.00	16.00	16.00	8.00
UPN 320	UPN 320	59.50	61.00	75.80	320.00	100.00	14.00	17.50	17.50	8.75
UPN 350	UPN 350	60.60	62.00	77.30	350.00	100.00	14.00	16.00	16.00	8.00
UPN 380	UPN 380	63.10	65.00	80.40	380.00	102.00	13.50	16.00	16.00	8.00
UPN 400	UPN 400	71.80	74.00	91.50	400.00	110.00	14.00	18.00	18.00	9.00



SOLID ROUND BARS

Specifications:

- BS EN 10025 S355 J2

O/Dia	Weight
	Kg/Mtr
6	0.222
8	0.394
10	0.616
12	0.887
15	1.386
16	1.577
20	2.464
25	3.850
30	5.544
32	6.308
35	7.546
36	7.983
40	9.856
45	12.474
50	15.400
55	18.634
60	22.176
65	26.026
70	30.184
80	39.424
85	44.506
90	49.896
95	55.594
100	61.600
105	67.914
110	74.536
115	81.466
120	88.704
125	96.250
130	104.104
135	112.266
140	120.736
150	138.600
155	147.994
160	157.696
165	167.706
170	178.024
175	188.650
180	199.584
190	222.376
200	246.400
205	258.874
210	271.656

O/Dia	Weight
	Kg/Mtr
220	298.144
225	311.850
230	325.864
240	354.816
250	385.000
260	416.416
270	449.064
280	482.944
290	518.056
300	554.400
305	573.034
310	591.976
320	630.784
325	650.650
330	670.824
340	712.096
350	754.600
360	798.336
370	843.304
380	889.504
390	936.936
400	985.600
405	1010.394
410	1035.496
420	1086.624
430	1138.984
440	1192.576
450	1247.400
460	1303.456
470	1360.744
480	1419.264
490	1479.016
500	1540.000
510	1602.216
520	1665.664
530	1730.344
540	1796.256
550	1863.400
560	1931.776
570	2001.384
580	2072.224
590	2144.296
600	2217.600

BULB FLATS & REINFORCED FLAT BAR

Bulb flats are the most efficient and corrosion-resistant solution for plate stiffening requirements. These are used to improve strength to weight ratio at a lower weight than with flat bars or angles.

All Bulb Flats can be supplied bare, in black condition, or indeed with the industry standard SA2.5 shotblasted and painted to your requirements, all performed in-house.

We offer this service from our in-house range of Value Added Services and project management to keep lead-time to a minimum, and keep a project on track.

Identification	Size(mm)					CSA (cm2)	Weight (kg/m)
	b	t	h	r1	r		
HP80x5	80	5	19	4	≤1.5	5.41	4.25
HP80x6		6	20		≤2	6.21	4.88
HP100x7	100	7	22.5	4.5	≤2	8.74	6.86
HP100x8		8	23.5			9.74	7.65
HP120x6	120	6	23	5	≤2	9.32	7.32
HP120x7		7	24			10.52	8.26
HP120x8		8	25			11.72	9.2
HP140x7	140	7	26	5.5	≤2	12.43	9.75
HP140x8		8	27			13.83	10.85
HP140x10		10	29		≤3	16.63	13.05
HP160x7	160	7	29	6	≤2	14.6	11.46
HP160x8		8	30			16.2	12.72
HP160x9		9	31			17.8	13.97
HP160x11		11	33		≤3	21	16.49
HP180x8	180	8	33	7	≤2	18.86	14.8
HP180x9		9	34			20.66	16.22
HP180x10		10	35		≤3	22.46	17.63
HP180x11		11	36			24.26	19.04
HP200x9	200	9	37	8	≤2	23.66	18.57
HP200x10		10	38		≤3	25.66	20.14
HP200x11		11	39			27.66	21.71
HP200x12		12	40			29.66	23.28
HP220x10	220	10	41	9	≤3	29.66	22.27
HP220x11		11	42			29	24.5
HP220x12		12	43			31.2	26.22
HP240x10	240	10	40	10	≤3	33.49	25.5
HP240x11		11	45			34.89	27.39
HP240x12		12	46			37.29	29.27
HP260x10	260	10	47	11	≤3	36.11	28.35
HP260x11		11	48			38.71	30.39
HP260x12		12	49			41.31	32.43
HP280x11	280	11	51	12	≤3	42.68	33.5
HP280x12		12	52			45.48	35.7
HP280x13		13	53			48.28	37.9
HP300x11	300	11	54	13	≤3	46.78	36.7
HP300x12		12	55			49.79	39.09
HP300x13		13	56			52.79	41.44
HP320x12	320	12	58	14	≤3	54.25	42.6
HP320x13		13	59			57.25	45.09
HP320x14		14	60		≤4	60.85	47.6
HP340x12	340	12	61	15	≤3	58.84	46.2



Identification	Size(mm)					CSA (cm2)	Weight (kg/m)
	b	t	h	r1	r		
HP340x13		13	62			62.24	48.86
HP340x14		14	63		≤4	65.54	51.5
HP370x13	370	13	66.5	16.5	≤3	69.7	54.7
HP370x14		14	67.5		≤4	73.4	57.6
HP370x15		15	68.5			77.1	60.5
HP400x14	400	14	72	18	≤4	81.48	63.96
HP400x15		15	73			85.48	67.1
HP400x16		16	74			89.48	70.2
HP430x14	430	14	76.5	19.5	≤4	89.7	70.6
HP430x15		15	77.5			94.19	73.9
HP430x17		17	79.5			102.79	80.7
HP430x19		19	81.5			111.39	87.4
HP430x20		20	82.5			115	90.8

