

European Wide Flange Beams in accordance with EN



Standard dimension				Reference							
Serial size (mm)	Designation	Section area	Unit weight	Moment of inertia (cm ⁴)		Radius of gyration (cm)		Section modulus (cm ³)		Plastic section modulus (cm ³)	
		(cm ²)	(kg/m)	I _x	I _y	r _x	r _y	S _x	S _y	Z _x	Z _y
HE 100	HE 100 AA	15.6	12.2	236.5	92.0	3.89	2.43	52.0	18.4	58.3	28.4
	HE 100 A	21.2	16.7	349.2	133.8	4.06	2.51	72.8	26.8	83.0	41.1
	HE 100 B	26.0	20.4	449.5	167.3	4.16	2.53	89.9	33.5	104.2	51.4
	HE 100 C	39.3	30.9	758.7	274.4	4.39	2.64	137.9	53.3	165.8	82.1
	HE 100 M	53.2	41.8	1143.0	399.2	4.63	2.74	190.4	75.3	235.8	116.3
HE120	HE 120 AA	18.6	14.6	413.4	158.8	4.72	2.93	75.9	26.5	84.1	40.6
	HE 120 A	25.3	19.9	606.2	230.9	4.89	3.02	106.3	38.5	119.5	58.9
	HE 120 B	34.0	26.7	864.4	317.5	5.04	3.06	144.1	52.9	165.2	81.0
	HE 120 C	49.9	39.2	1388.0	497.7	5.27	3.16	213.6	80.9	252.9	124.2
	HE 120 M	66.4	52.1	2018.0	702.8	5.51	3.25	288.2	111.6	350.6	171.6
HE140	HE 140 AA	23.0	18.1	719.5	274.8	5.59	3.45	112.4	39.3	123.8	59.9
	HE 140 A	31.4	24.7	1033.0	389.3	5.73	3.52	155.4	55.6	173.5	84.9
	HE 140 B	43.0	33.7	1509.0	549.7	5.93	3.58	215.6	78.5	245.4	119.8
	HE 140 C	61.5	48.2	2330.0	830.3	6.16	3.68	310.6	116.1	363.8	177.7
	HE 140 M	80.6	63.2	3291.0	1144.0	6.39	3.77	411.4	156.8	493.8	240.5
HE160	HE 160 AA	30.4	23.8	1283.0	478.7	6.50	3.97	173.4	59.8	190.4	91.4
	HE 160 A	38.8	30.4	1673.0	615.6	6.57	3.98	220.1	76.9	245.1	117.6
	HE 160 B	54.3	42.6	2492.0	889.2	6.78	4.05	311.5	111.2	354.0	170.0
	HE 160 C	61.5	48.2	3704.0	1302.0	7.01	4.16	435.8	159.8	507.6	244.9
	HE 160 M	80.6	63.2	5098.0	1759.0	7.25	4.26	566.5	211.9	674.6	325.5
HE180	HE 180 AA	36.5	28.7	1967.0	730.0	7.34	4.47	235.6	81.1	258.2	123.6
	HE 180 A	45.3	35.5	2510.0	924.6	7.45	4.52	293.6	102.7	324.9	156.5
	HE 180 B	65.3	51.2	3831.0	1363.0	7.66	4.57	425.7	151.4	481.4	231.0
	HE 180 C	89.0	69.8	5543.0	1944.0	7.89	4.68	583.5	212.5	675.0	324.9
	HE 180 M	113.3	88.9	7483.0	2580.0	8.13	4.77	748.3	277.4	883.4	425.2
HE200	HE 200 AA	44.1	34.6	2944.0	1068.0	8.17	5.42	316.6	106.8	347.1	163.2
	HE 200 A	53.8	42.3	3692.0	1336.0	8.28	5.51	388.6	133.6	429.5	203.8
	HE 200 B	78.1	61.3	5696.0	2003.0	8.54	5.59	569.6	200.3	642.5	305.8
	HE 200 C	104.4	81.9	8029.0	2794.0	8.77	5.69	764.7	275.3	880.6	421.0
	HE 200 M	131.3	103.0	10640.0	3651.0	9.00	5.79	967.4	354.5	883.4	543.2
HE220	HE 220 AA	51.5	40.4	4170.0	1510.0	9.00	5.42	406.9	137.3	445.5	209.3

	HE 220 A	64.3	50.5	5410.0	1955.0	9.17	5.51	515.2	177.7	568.5	270.6
	HE 220 B	91.0	71.5	8091.0	2843.0	9.43	5.59	735.5	258.5	827.0	393.9
	HE 220 C	119.9	94.1	11180.0	3888.0	9.65	5.69	972.2	348.7	1114.0	532.4
	HE 220 M	149.4	117.0	14600.0	5012.0	9.89	5.79	1217.0	443.5	1419.0	678.6
HE240	HE 240 AA	60.4	47.4	5835.0	2077.0	9.83	5.87	521.0	173.1	570.6	264.4
	HE 240 A	76.8	60.3	7763.0	2769.0	10.05	6.00	675.1	230.7	744.6	351.7
	HE 240 B	106.0	83.2	11260.0	3923.0	10.31	6.08	938.3	326.9	1053.0	498.4
	HE 240 C	152.2	119.0	17330.0	5942.0	10.67	6.25	1359.0	487.1	1564.0	743.8
	HE 240 M	199.6	157.0	24290.0	8153.0	11.03	6.39	1799.0	657.5	2117.0	1006.0
HE260	HE 260 AA	69.0	54.1	7981.0	2788.0	10.76	6.36	654.1	214.5	714.5	327.7
	HE 260 A	86.8	68.2	10450.0	3668.0	10.97	6.50	836.4	282.1	919.8	430.2
	HE 260 B	118.4	93.0	14920.0	5135.0	11.22	6.58	1148.0	395.0	1283.0	602.2
	HE 260 C	168.4	132.0	22590.0	7680.0	11.58	6.75	1643.0	581.8	1880.0	888.3
	HE 260 M	219.6	172.0	31310.0	10450.0	11.94	6.90	2159.0	779.7	2524.0	1192.0
HE300	HE 300 AA	88.9	69.8	13800.0	4734.0	12.50	7.30	976.0	316.0	1065.0	482.3
	HE 300 A	113.0	88.3	18260.0	6310.0	12.70	7.49	1260.0	421.0	1383.0	641.2
	HE 300 B	149.0	117.0	25170.0	8563.0	13.00	7.58	1678.0	571.0	1869.0	870.1
	HE 300 C	225.1	177.0	40950.0	13736.0	13.49	7.81	2559.0	900.7	2927.0	1374.0
	HE 300 M	303.0	238.0	59200.0	19400.0	14.00	8.00	3482.0	1252.0	4078.0	1913.0
HE320	HE 320 AA	94.6	74.2	16450.0	4959.0	13.19	7.24	1093.0	330.6	1196.0	505.7
	HE 320 A	124.4	97.6	22930.0	6985.0	13.58	7.49	1479.0	465.7	1628.0	709.7
	HE 320 B	161.3	127.0	30820.0	9239.0	13.82	7.58	1926.0	615.9	2149.0	939.1
	HE 320 C	236.9	186.0	48710.0	14446.0	14.34	7.81	2865.0	947.0	3274.0	1445.0
	HE 320 M	312.0	245.0	68130.0	19710.0	14.78	8.00	3796.0	1276.0	4435.0	1951.0
HE340	HE 340 AA	100.5	78.9	19550.0	5185.0	13.95	7.18	1222.0	345.6	1341.0	529.3
	HE 340 A	133.5	105.0	27690.0	7436.0	14.40	7.46	1678.0	495.7	1850.0	755.9
	HE 340 B	170.9	134.0	36660.0	9690.0	14.65	7.53	2156.0	646.0	2408.0	985.7
	HE 340 M	315.8	248.0	76370.0	19710.0	15.55	7.90	4052.0	1276.0	4718.0	1953.0
HE360	HE 360 AA	106.6	83.7	23040.0	5410.0	14.70	7.12	1359.0	360.7	1495.0	553.0
	HE 360 A	142.8	112.0	33090.0	7887.0	15.22	7.43	1891.0	525.8	2088.0	802.3
	HE 360 B	180.6	142.0	43190.0	10140.0	15.46	7.49	2400.0	676.1	2683.0	1032.0
	HE 360 M	318.8	250.0	84870.0	19520.0	16.32	7.83	4297.0	1268.0	4989.0	1942.0
HE400	HE 400 AA	117.7	92.4	31250.0	5861.0	16.30	7.06	1654.0	390.8	1824.0	599.7
	HE 400 A	159.0	125.0	45070.0	8564.0	16.84	7.34	2311.0	570.9	2562.0	872.9
	HE 400 B	197.8	155.0	57680.0	10820.0	17.08	7.40	2884.0	721.3	3232.0	1104.0
	HE 400 M	325.8	256.0	104100.0	19340.0	17.88	7.70	4820.0	1260.0	5571.0	1934.0
HE450	HE 450 AA	127.0	99.7	41890.0	6088.0	18.20	6.92	1971.0	406.0	2183.0	624.0
	HE 450 x 123	158.0	123.0	55860.0	8338.0	18.80	7.27	2568.0	556.0	2836.0	850.0
	HE 450 A	178.0	140.0	63720.0	9465.0	18.90	7.29	2896.0	631.0	3216.0	966.0
	HE 450 B	218.0	171.0	79890.0	11720.0	19.10	7.33	3551.0	781.0	3982.0	1198.0
	HE 450 M	335.4	263.0	131500.0	19340.0	19.80	7.56	5501.0	1260.0	6331.0	1939.0
HE500	HE 500 AA	137.0	107.0	54640.0	6314.0	20.00	6.79	2315.0	421.0	2756.0	649.0
	HE 500 A	198.0	155.0	86970.0	10370.0	21.00	7.24	3550.0	691.0	3949.0	1059.0

	HE 500 B	239.0	187.0	107200.0	12620.0	21.20	7.27	4287.0	842.0	4815.0	1292.0
	HE 500 M	344.0	270.0	161900.0	19150.0	21.70	7.46	6180.0	1252.0	7094.0	1932.0
HE550	HE 550 AA	152.8	120.0	72870.0	6767.0	21.84	6.65	2792.0	451.1	3128.0	698.6
	HE 550 A	211.8	166.0	111900.0	10820.0	22.99	7.15	4146.0	721.3	4622.0	1107.0
	HE 550 B	254.1	199.0	136700.0	13080.0	23.20	7.17	4971.0	871.8	5591.0	1341.0
	HE 550 M	354.4	278.0	198000.0	19160.0	23.64	7.35	6923.0	1252.0	7933.0	1937.0
HE600	HE 600 AA	164.1	129.0	91900.0	6993.0	23.66	6.53	3218.0	466.2	3623.0	724.5
	HE 6000 A	226.5	178.0	141200.0	11270.0	24.97	7.05	4787.0	751.4	5350.0	1156.0
	HE 600 B	270.0	212.0	171000.0	13530.0	25.17	7.08	5701.0	902.0	6425.0	1391.0
	HE 600 M	363.7	285.0	237400.0	18980.0	25.55	7.22	7660.0	1244.0	8772.0	1930.0
	HE 600 x 337	429.2	337.0	283200.0	22940.0	25.69	7.31	8961.0	1480.0	10380.0	2310.0
	HE 600 x 399	508.5	399.0	344600.0	28280.0	26.03	7.46	10640.0	1796.0	12460.0	2814.0
HE650	HE 650 AA	175.8	138.0	113900.0	7221.0	25.46	6.41	3676.0	481.4	4160.0	750.7
	HE 650 A	241.6	190.0	175200.0	11720.0	26.93	6.97	5474.0	781.6	6136.0	1205.0
	HE 650 B	286.3	225.0	210600.0	13980.0	27.12	6.99	6480.0	932.3	7320.0	1441.0
	HE 650 M	373.7	293.0	281700.0	18980.0	27.45	7.13	8433.0	1245.0	9657.0	1936.0
	HE 650 x 343	437.5	343.0	333700.0	22720.0	27.62	7.21	9815.0	1470.0	11350.0	2300.0
	HE 650 x 407	518.8	407.0	405400.0	28020.0	27.95	7.35	11650.0	1785.0	13620.0	2803.0
HE700	HE 700 AA	190.9	150.0	142700.0	7673.0	27.34	6.34	4260.0	511.5	4840.0	799.7
	HE 700 A	260.5	204.0	215300.0	12180.0	28.75	6.84	6241.0	811.9	7032.0	1257.0
	HE 700 B	306.4	241.0	256900.0	14440.0	28.96	6.87	7340.0	962.7	8327.0	1495.0
	HE 700 M	383.0	301.0	329300.0	18800.0	29.32	7.01	9198.0	1240.0	10540.0	1929.0
	HE 700 x 352	448.6	352.0	389700.0	22510.0	29.47	7.08	10710.0	1461.0	12390.0	2293.0
	HE 700 x 418	531.9	418.0	472500.0	27760.0	29.70	7.22	12700.0	1774.0	14840.0	2797.0
HE800	HE 800 AA	218.5	172.0	208900.0	8134.0	30.92	6.10	5426.0	542.2	6225.0	856.6
	HE 800 A	285.8	224.0	303400.0	12640.0	32.58	6.65	7682.0	842.6	8699.0	1312.0
	HE 800 B	334.2	262.0	359100.0	14900.0	32.78	6.68	8977.0	993.6	10230.0	1553.0
	HE 800 M	404.3	317.0	442600.0	18630.0	33.09	6.79	10870.0	1230.0	12490.0	1930.0
	HE 800 x 373	474.6	373.0	523900.0	22530.0	33.23	6.89	12690.0	1463.0	14700.0	2311.0
	HE 800 x 444	566.0	444.0	634500.0	27800.0	33.48	7.01	15070.0	1776.0	17640.0	2827.0
HE900	HE 900 AA	252.2	198.0	301100.0	9041.0	34.55	5.99	6923.0	602.8	7999.0	957.7
	HE 900 A	320.5	252.0	422100.0	13550.0	36.29	6.50	9485.0	903.2	10810.0	1414.0
	HE 900 B	371.3	291.0	494100.0	15820.0	36.48	6.53	10980.0	1050.0	12580.0	1658.0
	HE 900 M	423.6	333.0	570400.0	18450.0	36.70	6.60	12540.0	1220.0	14440.0	1929.0
	HE 900 x 391	497.7	391.0	674300.0	22320.0	36.81	6.70	14630.0	1454.0	16990.0	2312.0
	HE 900 x 466	593.7	466.0	814900.0	27560.0	37.05	6.81	17380.0	1767.0	20380.0	2832.0
HE1000	HE 1000 AA	282.2	222.0	406500.0	9501.0	37.95	5.80	8380.0	633.4	9777.0	1016.0
	HE 1000 x 249	316.8	249.0	481100.0	11750.0	38.97	6.09	9818.0	784.0	11350.0	1245.0
	HE 1000 A	346.8	272.0	553800.0	14000.0	39.96	6.35	11190.0	933.6	12820.0	1470.0
	HE 1000 B	400.0	314.0	644700.0	16280.0	40.15	6.38	12890.0	1085.0	14860.0	1716.0
	HE 1000 M	444.2	349.0	722300.0	18460.0	40.32	6.45	14330.0	1222.0	16570.0	1940.0
	HE 1000 x 393	500.2	393.0	807700.0	20500.0	40.18	6.40	15900.0	1353.0	18540.0	2168.0
	HE 1000 x 415	528.7	415.0	853100.0	21710.0	40.17	6.41	16728.0	1428.0	19571.0	2298.0

HE 1000 x 438	556.0	438.0	909200.0	23360.0	40.43	6.48	17720.0	1531.0	20750.0	2463.0
HE 1000 x 494	629.1	494.0	1028000.0	26820.0	40.42	6.53	19845.0	1736.0	23413.0	2818.0
HE 1000 x 584	743.7	584.0	1246100.0	33430.0	40.93	6.70	23600.0	2130.0	28039.0	3475.0

(The information given on these tables is for initial information only. Any use of these figures is at users own risk.)