



<b>G</b>	=	weight
<b>A</b>	=	cross-sectional area
<b>I</b>	=	moment of inertia
<b><math>W_{y;el}</math></b>	=	elastic section modulus
<b><math>S_y</math></b>	=	static moment (area above y-axis times distance from the centroid of that area to the y-axis)
<b><math>W_{y;pl}</math></b>	=	$2 \cdot S_y$ = plastic section modulus
<b>i</b>	=	radius of gyration = $(I/A)^{0.5}$

Profile	Geometry														
	$h$ [mm]	$b$ [mm]	$t_w$ [mm]	$t_f$ [mm]	$r$ [mm]	<b>G</b> [kg/m]	<b>A</b> [mm <sup>2</sup> ]	<b><math>I_y</math></b> [mm <sup>4</sup> ] ·10 <sup>4</sup>	<b><math>W_{y;el}</math></b> [mm <sup>3</sup> ] ·10 <sup>3</sup>	<b><math>W_{y;pl}</math></b> [mm <sup>3</sup> ] ·10 <sup>3</sup>	<b><math>i_y</math></b> [mm]	<b><math>I_z</math></b> [mm <sup>4</sup> ] ·10 <sup>4</sup>	<b><math>W_{z;el}</math></b> [mm <sup>3</sup> ] ·10 <sup>3</sup>	<b><math>W_{z;pl}</math></b> [mm <sup>3</sup> ] ·10 <sup>3</sup>	<b><math>i_z</math></b> [mm]
HEA 100	96	100	5	8	12	16.7	2124	349	73	83	40.6	134	27	41	25.1
HEA 120	114	120	5	8	12	19.9	2534	606	106	119	48.9	231	38	59	30.2
HEA 140	133	140	5.5	8.5	12	24.7	3142	1033	155	173	57.3	389	56	85	35.2
HEA 160	152	160	6	9	15	30.4	3877	1673	220	245	65.7	616	77	118	39.8
HEA 180	171	180	6	9.5	15	35.5	4525	2510	294	325	74.5	925	103	156	45.2
HEA 200	190	200	6.5	10	18	42.3	5383	3692	389	429	82.8	1336	134	204	49.8
HEA 220	210	220	7	11	18	50.5	6434	5410	515	568	91.7	1955	178	271	55.1
HEA 240	230	240	7.5	12	21	60.3	7684	7763	675	745	100.5	2769	231	352	60.0
HEA 260	250	260	7.5	12.5	24	68.2	8682	10455	836	920	109.7	3668	282	430	65.0
HEA 280	270	280	8	13	24	76.4	9726	13673	1013	1112	118.6	4763	340	518	70.0
HEA 300	290	300	8.5	14	27	88.3	11253	18263	1260	1383	124	6310	421	641	74.9
HEA 320	310	300	9	15.5	27	97.6	12437	22929	1479	1628	135.8	6985	466	710	74.9

Profile	Geometry														
	h	b	t <sub>w</sub>	t <sub>f</sub>	r	G	A	I <sub>y</sub>	W <sub>y;el</sub>	W <sub>y;pl</sub>	i <sub>y</sub>	I <sub>z</sub>	W <sub>z;el</sub>	W <sub>z;pl</sub>	i <sub>z</sub>
	[mm]	[mm]	[mm]	[mm]	[mm]	[kg/m]	[mm <sup>2</sup> ]	[mm <sup>4</sup> ] ·10 <sup>4</sup>	[mm <sup>3</sup> ] ·10 <sup>3</sup>	[mm <sup>3</sup> ] ·10 <sup>3</sup>	[mm]	[mm <sup>4</sup> ] ·10 <sup>4</sup>	[mm <sup>3</sup> ] ·10 <sup>3</sup>	[mm <sup>3</sup> ] ·10 <sup>3</sup>	[mm]
HEA 340	330	300	9.5	16.5	27	104.8	13347	27693	1678	1850	144.0	7436	496	756	74.6
HEA 360	350	300	10	17.5	27	112.1	14276	33090	1891	2088	152.2	7887	526	802	74.3
HEA 400	390	300	11	19	27	124.8	15898	45069	2311	2562	168.4	8564	571	873	73.4
HEA 450	440	300	11	21	27	139.8	17803	63722	2896	3216	189.2	9465	631	966	72.9
HEA 500	490	300	11.5	23	27	155.1	19754	86975	3550	3949	209.8	10367	691	1059	72.4
HEA 550	540	300	12.5	24	27	166.2	21176	111932	4146	4622	229.9	10819	721	1107	71.5
HEA 600	590	300	13	25	27	177.8	22646	141208	4787	5350	249.7	11271	751	1156	70.5
HEA 650	640	300	13.5	26	27	189.7	24164	175178	5474	6136	269.3	11724	782	1205	69.7
HEA 700	690	300	14.5	27	27	204.5	26048	215301	6241	7032	287.5	12179	812	1257	68.4
HEA 800	790	300	15	28	30	224.4	28583	303443	7682	8699	325.8	12639	843	1312	66.5
HEA 900	890	300	16	30	30	251.6	32053	422075	9485	10811	362.9	13547	903	1414	65.0
HEA 1000	990	300	16.5	31	30	272.3	34685	553846	11189	12824	399.6	14004	934	1470	63.5