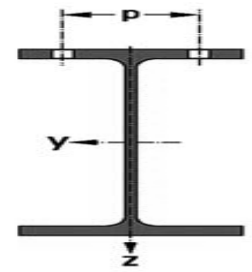
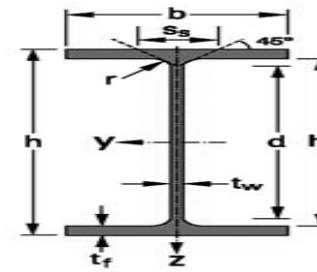


HEAA
HEA
HEB
HEM



SECTION	DIMENSIONS					CROSS SECT. AREA	DESIGN SIZES						SURFACE AREA		SECTION	STATIC VALUES										CLASSIFICATION								
																STRONG AXIS y-y					WEAK AXIS z-z					ENV 1993 1-1								
																l _y	W _{el,y}	W _{pl,y}	l _y	A _{vz}	l _z	W _{el,z}	W _{pl,z}	l _z	s _s	I _t	I _w × 10 ⁻³	BENDING			PRESSUR			
cm ⁴	cm ³	cm ³	cm	cm ²	cm ⁴	cm ³	cm ³	cm	mm	cm ⁴	cm ⁶	235	355	460	235	355	460																	
G	h	b	t _w	t _f	r	A	h _i	d	Ø	p _{min}	p _{max}	A _L	A _G	G	l _y	W _{el,y}	W _{pl,y}	l _y	A _{vz}	l _z	W _{el,z}	W _{pl,z}	l _z	s _s	I _t	I _w × 10 ⁻³	235	355	460	235	355	460		
kg/m	mm	mm	mm	mm	mm	cm ²	mm	mm	mm	mm	mm	m ² /m	m ² /t	kg/m	cm ⁴	cm ³	cm ³	cm	cm ²	cm ⁴	cm ³	cm ³	cm	mm	cm ⁴	cm ⁶	-	-	-	-	-	-		
HE 120 AA	14,6	109	120	4,2	5,5	12	18,55	98	74	M12	58	68	0,669	45,940	HE 120 AA	14,6	413,4	75,85	84,12	4,72	6,90	158,8	26,47	40,62	2,93	29,26	2,78	4,24	2	3	-	2	3	-
HE 120 A	19,9	114	120	5,0	8,0	12	25,34	98	74	M12	58	68	0,677	34,060	HE 120 A	19,9	606,2	106,3	119,5	4,89	8,46	230,9	38,48	58,85	3,02	35,06	5,99	6,47	1	1	-	1	1	-
HE 120 B	26,7	120	120	6,5	11,0	12	34,01	98	74	M12	60	68	0,686	25,710	HE 120 B	26,7	864,4	144,10	165,20	5,04	10,96	317,5	52,92	80,97	3,06	42,56	13,84	9,41	1	1	-	1	1	-
HE 120 M	52,1	140	126	12,5	21,0	12	66,41	98	74	M12	66	74	0,738	14,160	HE 120 M	52,1	2018,0	288,2	350,6	5,51	21,15	702,8	111,60	171,60	3,25	68,56	91,66	24,79	1	1	-	1	1	-
HE 140 AA	18,1	128	140	4,3	6,0	12	23,02	116	92	M16	64	76	0,787	43,530	HE 140 AA	18,1	719,5	112,4	123,8	5,59	7,92	274,8	39,26	59,93	3,45	30,36	3,54	10,21	3	3	-	3	3	-
HE 140 A	24,7	133	140	5,5	8,5	12	31,42	116	92	M16	64	76	0,794	32,210	HE 140 A	24,7	1033,0	155,40	173,50	5,73	10,12	389,3	55,62	84,85	3,52	36,56	8,13	15,06	1	2	-	1	2	-
HE 140 B	33,7	140	140	7,0	12,0	12	42,96	116	92	M16	66	76	0,805	23,880	HE 140 B	33,7	1509,0	215,6	245,4	5,93	13,08	549,7	78,52	119,80	3,58	45,06	20,06	22,48	1	1	-	1	1	-
HE 140 M	63,2	160	146	13,0	22,0	12	80,56	116	92	M16	72	82	0,857	13,560	HE 140 M	63,2	3291,0	411,40	493,80	6,39	24,46	1144,0	156,80	240,50	3,77	71,06	120,00	54,33	1	1	-	1	1	-
HE 160 AA	23,8	148	160	4,5	7,0	15	30,36	134	104	M20	76	84	0,901	37,810	HE 160 AA	23,8	1283,0	173,40	190,40	6,50	10,38	478,7	59,84	91,36	3,97	36,07	6,33	23,75	3	3	-	3	3	-
HE 160 A	30,4	152	160	6,0	9,0	15	38,77	134	104	M20	78	84	0,906	29,780	HE 160 A	30,4	1673,0	220,1	245,1	6,57	13,21	615,6	76,95	117,60	3,98	41,57	12,19	31,41	1	2	-	1	2	-
HE 160 B	42,6	160	160	8,0	13,0	15	54,25	134	104	M20	80	84	0,918	21,560	HE 160 B	42,6	2492,0	311,50	354,00	6,78	17,59	889,2	111,20	170,00	4,05	51,57	31,24	47,94	1	1	-	1	1	-
HE 160 M	76,2	180	166	14,0	23,0	15	97,05	134	104	M20	86	90	0,970	12,740	HE 160 M	76,2	5098,0	566,5	674,6	7,25	30,81	1759,0	211,90	325,50	4,26	77,57	162,40	108,10	1	1	-	1	1	-
HE 180 AA	28,7	167	180	5,0	7,5	15	36,53	152	122	M24	84	92	1,018	35,510	HE 180 AA	28,7	1967,0	235,6	258,2	7,34	12,16	730,0	81,11	123,60	4,47	37,57	8,33	46,36	3	3	-	3	3	-
HE 180 A	35,5	171	180	6,0	9,5	15	45,25	152	122	M24	86	92	1,024	28,830	HE 180 A	35,5	2510,0	293,60	324,90	7,45	14,47	924,6	102,70	156,50	4,52	42,57	14,80	60,21	1	3	-	1	3	-
HE 180 B	51,2	180	180	8,5	14,0	15	65,25	152	122	M24	88	92	1,037	20,250	HE 180 B	51,2	3831,0	425,7	481,4	7,66	20,24	1363,0	151,40	231,00	4,57	54,07	42,16	93,75	1	1	-	1	1	-
HE 180 M	88,9	200	186	14,5	24,0	15	113,30	152	122	M24	94	98	1,089	12,250	HE 180 M	88,9	7483,0	748,30	883,40	8,13	34,65	2580,0	277,40	425,20	4,77	80,07	203,30	199,30	1	1	-	1	1	-
HE 200 AA	34,6	186	200	5,5	8,0	18	44,13	170	134	M27	96	100	1,130	32,620	HE 200 AA	34,6	2944,0	316,60	347,10	8,17	15,45	1068,0	106,80	163,20	4,92	42,59	12,69	84,49	3	4	-	3	4	-
HE 200 A	42,3	190	200	6,5	10,0	18	53,83	170	134	M27	98	100	1,136	26,890	HE 200 A	42,3	3692,0	388,6	429,5	8,28	18,08	1336,0	133,60	203,80	4,98	47,59	20,98	108,00	1	3	-	1	3	-
HE 200 B	61,3	200	200	9,0	15,0	18	78,08	170	134	M27	100	100	1,151	18,780	HE 200 B	61,3	5696,0	569,60	642,50	8,54	24,83	2003,0	200,30	305,80	5,07	60,09	59,28	171,10	1	1	-	1	1	-
HE 200 M	103,0	220	206	15,0	25,0	18	131,30	170	134	M27	106	106	1,203	11,670	HE 200 M	103,0	10640,0	967,4	1135,0	9,00	41,03	3651,0	354,50	543,20	5,27	86,09	259,40	346,30	1	1	-	1	1	-
HE 220 AA	40,4	205	220	6,0	8,5	18	51,46	188	152	M27	98	118	1,247	30,870	HE 220 AA	40,4	4170,0	406,9	445,5	9,00	17,63	1510,0	137,30	209,30	5,42	44,09	15,93	145,60	3	4	-	3	4	-
HE 220 A	50,5	210	220	7,0	11,0	18	64,34	188	152	M27	98	118	1,255	24,850	HE 220 A	50,5	5410,0	515,20	568,50	9,17	20,67	1955,0	177,70	270,60	5,51	50,09	28,46	193,30	1	3	-	1	3	-
HE 220 B	71,5	220	220	9,5	16,0	18	91,04	188	152	M27	100	118	1,270	17,770	HE 220 B	71,5	8091,0	735,5	827,0	9,43	27,92	2843,0	258,50	393,90	5,59	62,59	76,57	295,40	1	1	-	1	1	-
HE 220 M	117,0	240	226	15,5	26,0	18	149,40	188	152	M27	108	124	1,322	11,270	HE 220 M	117,0	14600,0	1217,00	1419,00	9,89	45,31	5012,0	443,50	678,60	5,79	88,59	315,30	572,70	1	1	-	1	1	-
HE 240 AA	47,4	224	240	6,5	9,0	21	60,38	206	164	M27	104	138	1,359	28,670	HE 240 AA	47,4	5835,0	521,00	570,60	9,83	21,54	2077,0	173,10	264,40	5,87	49,10	22,98	239,60	3	4	-	3	4	-

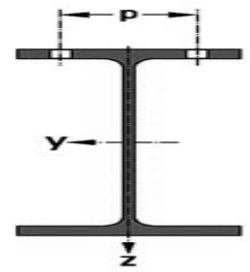
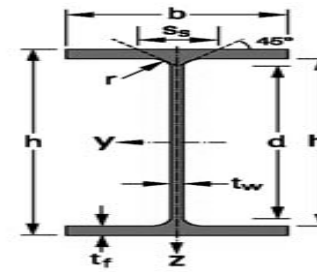
H PROFILES

HE AA, HE A, HE B, HE M 120 - 260

TS 910

DIN 1025

HEAA
HEA
HEB
HEM



SECTION	DIMENSIONS					CROSS SECT. AREA	DESIGN SIZES					SURFACE AREA		SECTION	STATIC VALUES											CLASSIFICATION								
															STRONG AXIS y-y						WEAK AXIS z-z					ENV 1993 1-1								
															I_y	$W_{el,y}$	$W_{pl,y}$	I_z	A_{vz}	I_z	$W_{el,z}$	$W_{pl,z}$	I_z	s_s	I_t	$I_w \times 10^{-3}$	BENDING			PRESSURE				
cm ⁴	cm ³	cm ³	cm	cm ²	cm ⁴	cm ³	cm ³	cm	mm	cm ⁴	cm ⁶	235	355	460	235	355	460																	
G kg/m	h	b	t_w	t_f	r	A	h_i	d	Ø	p _{min}	p _{max}	A _L	A _G	G	I_y	$W_{el,y}$	$W_{pl,y}$	I_z	A_{vz}	I_z	$W_{el,z}$	$W_{pl,z}$	I_z	s_s	I_t	$I_w \times 10^{-3}$	BENDING			PRESSURE				
	mm	mm	mm	mm	mm	cm ²	mm	mm	mm	mm	mm	m ² /m	m ² /t	kg/m	cm ⁴	cm ³	cm ³	cm	cm ²	cm ⁴	cm ³	cm ³	cm	mm	cm ⁴	cm ⁶								
HE 240 A	60,3	230	240	7,5	12,0	21	76,84	206	164	M27	104	138	1,369	22,700	HE 240 A	60,3	7763,0	675,1	744,6	10,05	25,18	2769,0	230,70	351,70	6,00	56,10	41,55	328,50	1	3	-	1	3	-
HE 240 B	83,2	240	240	10,0	17,0	21	106,00	206	164	M27	108	138	1,384	16,630	HE 240 B	83,2	11260,0	938,30	1053,00	10,31	33,23	3923,0	326,90	498,40	6,08	68,60	102,70	486,90	1	1	-	1	1	-
HE 240 M	157,0	270	248	18,0	32,0	21	199,60	206	164	M27	116	146	1,460	9,318	HE 240 M	157,0	24290,0	1799,0	2117,0	11,03	60,07	8153,0	657,50	1006,00	6,39	106,60	627,90	1152,00	1	1	-	1	1	-
HE 260 AA	54,1	244	260	6,5	9,5	24	68,97	225	177	M27	110	158	1,474	27,220	HE 260 AA	54,1	7981,0	654,1	714,5	10,76	24,75	2788,0	214,50	327,70	6,36	53,62	30,31	382,60	3	4	-	3	4	-
HE 260 A	68,2	250	260	7,5	12,5	24	86,82	225	177	M27	110	158	1,484	21,770	HE 260 A	68,2	10450,0	836,40	919,80	10,97	28,76	3668,0	282,10	430,20	6,50	60,62	52,37	516,40	2	3	3	2	3	3
HE 260 B	93,0	260	260	10,0	17,5	24	118,40	225	177	M27	114	158	1,499	16,120	HE 260 B	93,0	14920,0	1148,0	1283,0	11,22	37,59	5135,0	395,00	602,20	6,58	73,12	123,80	753,70	1	1	2	1	1	2
HE 260 M	172,0	290	268	18,0	32,5	24	219,60	225	177	M27	122	166	1,575	9,133	HE 260 M	172,0	31310,0	2159,00	2524,00	11,94	66,89	10450,0	779,70	1192,00	6,90	111,10	719,00	1728,00	1	1	1	1	1	1