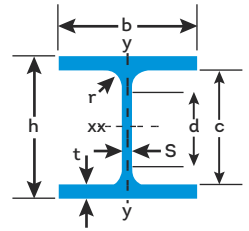
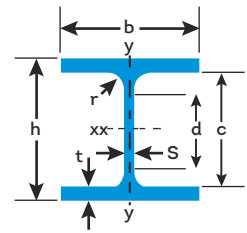


# PERFIL H EUROPEO DE ALA ANCHA - HE



PERFIL H EUROPEO DE ALA ANCHA - HE																			
DIMENSIONES Y PROPIEDADES PARA EL DISEÑO																			
PERFILES HE	DIMENSIONES							AREA	PESO	PROPIEDADES ELASTICAS						MODULO PLASTICO		CONS TORS	
	DESIGNACIÓN	ALTAURA		ALA			DISTANCIAS			EJE X-X			EJE Y-Y			Zx	Zy		
		h	s	b	t	r	c			d	Ix	Sx	rx	Iy	Sy	ry	cm3		cm3
mm	mm	mm	mm	mm	mm	mm	mm	cm <sup>2</sup>	kg/mt	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>3</sup>	cm <sup>3</sup>	cm <sup>4</sup>	
HEA A 100	91.0	4.2	100.0	5.5	12.0	80.0	56.0	15.6	12.2	237.0	52.0	3.89	92.10	18.40	2.43	58.40	28.40	2.51	
HEA 100	96.0	5.0	100.0	8.0	12.0	80.0	56.0	21.2	16.7	349.0	72.8	4.06	134.00	26.80	2.51	83.00	41.10	5.24	
DIL 100	100.0	5.0	100.0	10.0	12.0	80.0	56.0	25.2	19.8	445.0	89.1	4.20	167.00	33.40	2.57	103.00	51.10	8.40	
HEB 100	100.0	6.0	100.0	10.0	12.0	80.0	56.0	26.0	20.4	450.0	89.9	4.16	167.00	33.50	2.53	104.00	51.40	9.25	
HEM 100	120.0	12.0	106.0	20.0	12.0	80.0	56.0	53.2	41.8	1143.0	190.0	4.63	399.00	75.30	2.74	236.00	116.00	68.20	
HEA A 120	109.0	4.2	120.0	5.5	12.0	98.0	74.0	18.6	14.6	413.0	75.8	4.72	159.00	26.50	2.93	84.10	40.60	2.78	
HEA 120	114.0	5.0	120.0	8.0	12.0	98.0	74.0	25.3	19.9	606.0	106.0	4.89	231.00	38.50	3.02	119.00	58.90	5.99	
DIL 120	120.0	5.0	120.0	11.0	12.0	98.0	74.0	32.5	25.5	853.0	142.0	5.12	317.00	52.90	3.12	162.00	80.50	12.40	
HEB 120	120.0	6.5	120.0	11.0	12.0	98.0	74.0	34.0	26.7	864.0	144.0	5.04	318.00	52.90	3.06	165.00	81.00	13.80	
HEM 120	140.0	12.5	126.0	21.0	12.0	98.0	74.0	66.4	52.1	2018.0	288.0	5.51	703.00	112.00	3.25	351.00	172.00	91.70	
HEA A 140	128.0	4.3	140.0	6.0	12.0	116.0	92.0	23.0	18.1	719.0	112.0	5.59	275.00	39.30	3.45	124.00	59.90	3.54	
HEA 140	133.0	5.5	140.0	8.5	12.0	116.0	92.0	31.4	24.7	1033.0	155.0	5.73	389.00	55.60	3.52	173.00	84.80	8.13	
DIL 140	140.0	5.0	140.0	12.0	12.0	116.0	92.0	40.6	31.9	1483.0	212.0	6.04	549.00	78.50	3.68	239.00	119.00	17.80	
HEB 140	140.0	7.0	140.0	12.0	12.0	116.0	92.0	43.0	33.7	1509.0	216.0	5.93	550.00	78.50	3.58	245.00	120.00	20.10	
HEM 140	160.0	13.0	146.0	22.0	12.0	116.0	92.0	80.6	63.2	3291.0	411.0	6.39	1144.00	157.00	3.77	494.00	241.00	120.00	
HEA A 160	148.0	4.5	160.0	7.0	15.0	134.0	104.0	30.4	23.8	1283.0	173.0	6.50	479.00	59.80	3.97	190.00	91.40	6.33	
HEA 160	152.0	6.0	160.0	9.0	15.0	134.0	104.0	38.8	30.4	1673.0	220.0	6.57	616.00	76.90	3.98	245.00	118.00	12.20	
DIL 160	160.0	5.0	160.0	13.0	15.0	134.0	104.0	50.2	39.4	2432.0	304.0	6.96	888.00	111.00	4.21	340.00	168.00	26.10	
HEB 160	160.0	8.0	160.0	13.0	15.0	134.0	104.0	54.3	42.6	2492.0	311.0	6.78	889.00	111.00	4.05	354.00	170.00	31.20	
HEM 160	180.0	14.0	166.0	23.0	15.0	134.0	104.0	97.1	76.2	5098.0	566.0	7.25	1759.00	212.00	4.26	675.00	325.00	162.00	
HEA A 180	167.0	5.0	180.0	7.5	15.0	152.0	122.0	36.5	28.7	1967.0	236.0	7.34	730.00	81.10	4.47	258.00	124.00	8.33	
HEA 180	171.0	6.0	180.0	9.5	15.0	152.0	122.0	45.3	35.5	2510.0	294.0	7.45	925.00	103.00	4.52	325.00	156.00	14.80	
DIL 180	180.0	5.5	180.0	14.0	15.0	152.0	122.0	60.7	47.6	3743.0	416.0	7.85	1362.00	151.00	4.74	464.00	229.00	36.10	
HEB 180	180.0	8.5	180.0	14.0	15.0	152.0	122.0	65.3	51.2	3831.0	426.0	7.66	1363.00	151.00	4.57	481.00	231.00	42.20	
HEM 180	200.0	14.5	186.0	24.0	15.0	152.0	122.0	113.0	88.9	7483.0	748.0	8.13	2580.00	277.00	4.77	883.00	425.00	203.00	
HEA A 200	186.0	5.5	200.0	8.0	18.0	170.0	134.0	44.1	34.6	2944.0	317.0	8.17	1068.00	107.00	4.92	347.00	163.00	12.70	
HEA 200	190.0	6.5	200.0	10.0	18.0	170.0	134.0	53.8	42.3	3692.0	389.0	8.28	1336.00	134.00	4.98	429.00	204.00	21.00	
DIL 200	200.0	6.0	200.0	15.0	18.0	170.0	134.0	73.0	57.3	5573.0	557.0	8.74	2002.00	200.00	5.24	621.00	303.00	50.70	
HEB 200	200.0	9.0	200.0	15.0	18.0	170.0	134.0	78.1	61.3	5696.0	570.0	8.54	2003.00	200.00	5.07	643.00	306.00	59.30	
HEM 200	220.0	15.0	206.0	25.0	18.0	170.0	134.0	131.0	103.0	10640.0	967.0	9.00	3651.00	354.00	5.27	1135.00	543.00	259.00	
HEA A 220	205.0	6.0	220.0	8.5	18.0	188.0	152.0	51.5	40.4	4170.0	407.0	9.00	1510.00	137.00	5.42	445.00	209.00	15.90	
HEA 220	210.0	7.0	220.0	11.0	18.0	188.0	152.0	64.3	50.5	5410.0	515.0	9.17	1955.00	178.00	5.51	568.00	271.00	28.50	
DIL 220	220.0	6.5	220.0	16.0	18.0	188.0	152.0	85.4	67.0	7925.0	720.0	9.63	2842.00	258.00	5.77	801.00	391.00	66.80	
HEB 220	220.0	9.5	220.0	16.0	18.0	188.0	152.0	91.0	71.5	8091.0	736.0	9.43	2843.00	258.00	5.59	827.00	394.00	76.60	
HEM 220	240.0	15.5	226.0	26.0	18.0	188.0	152.0	149.0	117.0	14600.0	1217.0	9.89	5012.00	444.00	5.79	1419.00	679.00	315.00	
HEA A 240	224.0	6.5	240.0	9.0	21.0	206.0	164.0	60.4	47.4	5835.0	521.0	9.83	2077.00	173.00	5.87	571.00	264.00	23.00	
HEA 240	230.0	7.5	240.0	12.0	21.0	206.0	164.0	76.8	60.3	7763.0	675.0	10.10	2769.00	231.00	6.00	745.00	352.00	41.60	
DIL 240	240.0	7.0	240.0	17.0	21.0	206.0	164.0	99.8	78.3	11040.0	920.0	10.50	3921.00	327.00	6.27	1021.00	495.00	89.50	
HEB 240	240.0	10.0	240.0	17.0	21.0	206.0	164.0	106.0	83.2	11260.0	938.0	10.30	3923.00	327.00	6.08	1053.00	498.00	103.00	
HEM 240	270.0	18.0	248.0	32.0	21.0	206.0	164.0	200.0	157.0	24290.0	1799.0	11.00	8153.00	657.00	6.39	2117.00	1006.00	628.00	

# PERFIL H EUROPEO DE ALA ANCHA - HE



PERFIL H EUROPEO DE ALA ANCHA - HE																		
PERFILES HE		DIMENSIONES Y PROPIEDADES PARA EL DISEÑO																
DESIGNACIÓN	DIMENSIONES							AREA	PESO	PROPIEDADES ELASTICAS						MODULO PLASTICO		CONS TORS
	ALTURA		ALA		DISTANCIAS					EJE X-X			EJE Y-Y			Zx	Zy	
	h	s	b	t	r	c	d			Ix	Sx	rx	Iy	Sy	ry	cm3	cm3	
mm	mm	mm	mm	mm	mm	mm	mm	cm2	kg/mt	cm4	cm3	cm	cm4	cm3	cm	cm3	cm4	
HEA A 260	244.0	6.5	260.0	9.5	24.0	225.0	177.0	69.0	54.1	7981.0	654.0	10.8	2788.0	214.0	6.4	714.0	328.0	30.3
HEA 260	250.0	7.5	260.0	12.5	24.0	255.0	177.0	86.8	68.2	10450.0	836.0	11.0	3668.0	282.0	6.5	920.0	430.0	52.4
DIL 260	260.0	7.5	260.0	17.5	24.0	225.0	177.0	113.0	88.6	14680.0	1129.0	11.4	5132.0	395.0	6.7	1251.0	599.0	110.0
HEB 260	260.0	10.0	260.0	17.5	24.0	225.0	177.0	118.0	93.0	14920.0	1148.0	11.2	5135.0	395.0	6.6	1283.0	602.0	124.0
HEM 260	290.0	18.0	268.0	32.5	24.0	225.0	177.0	220.0	172.0	31310.0	2159.0	11.9	10450.0	780.0	6.9	2524.0	1192.0	719.0
HEA A 280	264.0	7.0	280.0	10.0	24.0	244.0	196.0	78.0	61.2	10560.0	800.0	11.6	3664.0	262.0	6.9	873.0	399.0	36.2
HEA 280	270.0	8.0	280.0	13.0	24.0	244.0	196.0	97.3	76.4	13670.0	1013.0	11.9	4763.0	340.0	7.0	1112.0	518.0	62.1
DIL 280	280.0	8.0	280.0	18.0	24.0	244.0	196.0	125.0	98.3	18970.0	1355.0	12.3	6592.0	471.0	7.3	1497.0	714.0	128.0
HEB 280	280.0	10.5	280.0	18.0	24.0	244.0	196.0	131.0	103.0	19270.0	1376.0	12.1	6595.0	471.0	7.1	1534.0	718.0	144.0
HEM 280	310.0	18.5	288.0	33.0	24.0	244.0	196.0	240.0	189.0	39550.0	2551.0	12.8	13160.0	914.0	7.4	2966.0	1397.0	807.0
HEA A 300	283.0	7.5	300.0	10.5	27.0	262.0	208.0	88.9	69.8	13800.0	976.0	12.5	4734.0	316.0	7.3	1065.0	482.0	49.3
HEA 300	290.0	8.5	300.0	14.0	27.0	262.0	208.0	113.0	88.3	18260.0	1260.0	12.7	6310.0	421.0	7.5	1383.0	641.0	85.2
DIL 300	300.0	8.5	300.0	19.0	27.0	262.0	208.0	143.0	112.0	24790.0	1653.0	13.2	8560.0	571.0	7.8	1826.0	866.0	165.0
HEB 300	300.0	11.0	300.0	19.0	27.0	262.0	208.0	149.0	117.0	25170.0	1678.0	13.0	8563.0	571.0	7.6	1869.0	870.0	185.0
HEC 300	320.0	16.0	305.0	29.0	27.0	262.0	208.0	225.0	177.0	40950.0	2559.0	13.5	13740.0	901.0	7.8	2927.0	1374.0	598.0
HEM 300	340.0	21.0	310.0	39.0	27.0	262.0	208.0	303.0	238.0	59200.0	3482.0	14.0	19400.0	1252.0	8.0	4078.0	1913.0	1408.0
HEA A 320	301.0	8.0	300.0	11.0	27.0	279.0	225.0	94.6	74.2	16450.0	1093.0	13.2	4959.0	331.0	7.2	1196.0	506.0	55.9
HEA 320	310.0	9.0	300.0	15.5	27.0	279.0	225.0	124.0	97.6	22930.0	1479.0	13.6	6985.0	466.0	7.5	1628.0	710.0	108.0
DIL 320	320.0	9.0	300.0	20.5	27.0	279.0	225.0	154.0	121.0	30370.0	1898.0	14.0	9235.0	616.0	7.7	2101.0	935.0	203.0
HEB 320	320.0	11.5	300.0	20.5	27.0	279.0	225.0	161.0	127.0	30820.0	1926.0	13.8	9239.0	616.0	7.6	2149.0	939.0	225.0
HEM 320	359.0	21.0	309.0	40.0	27.0	279.0	225.0	312.0	245.0	68130.0	3796.0	14.8	19710.0	1276.0	8.0	4435.0	1951.0	1501.0
HEA A 340	320.0	8.5	300.0	11.5	27.0	297.0	243.0	101.0	78.9	19550.0	1222.0	13.9	5185.0	346.0	7.2	1341.0	529.0	63.1
HEA 340	330.0	9.5	300.0	16.5	27.0	297.0	243.0	133.0	105.0	27690.0	1678.0	14.4	7436.0	496.0	7.5	1850.0	756.0	127.0
DIL 340	340.0	9.5	300.0	21.5	27.0	297.0	243.0	163.0	128.0	36110.0	2124.0	14.9	9686.0	646.0	7.7	2353.0	981.0	234.0
HEB 340	340.0	12.0	300.0	21.5	27.0	297.0	243.0	171.0	134.0	36660.0	2156.0	14.6	9690.0	646.0	7.5	2408.0	986.0	257.0
HEM 340	377.0	21.0	309.0	40.0	27.0	297.0	243.0	316.0	248.0	76340.0	4052.0	15.6	19710.0	1276.0	7.9	4718.0	1953.0	1506.0
HEA A 360	339.0	9.0	300.0	12.0	27.0	315.0	261.0	107.0	83.7	23040.0	1359.0	14.7	5410.0	361.0	7.1	1495.0	553.0	71.0
HEA 360	350.0	10.0	300.0	17.5	27.0	315.0	261.0	143.0	112.0	33090.0	1891.0	15.2	7887.0	526.0	7.4	2088.0	802.0	149.0
DIL 360	360.0	10.0	300.0	22.5	27.0	315.0	261.0	173.0	136.0	42540.0	2363.0	15.7	10140.0	676.0	7.7	2621.0	1027.0	267.0
HEB 360	360.0	12.5	300.0	22.5	27.0	315.0	261.0	181.0	142.0	43190.0	2400.0	15.5	10140.0	676.0	7.5	2683.0	1032.0	292.0
HEM 360	395.0	21.0	308.0	40.0	27.0	315.0	261.0	319.0	250.0	84870.0	4297.0	16.3	19520.0	1268.0	7.8	4989.0	1942.0	1507.0
HEA A 400	378.0	9.5	300.0	13.0	27.0	352.0	298.0	118.0	92.4	31250.0	1654.0	16.3	5861.0	391.0	7.1	1824.0	600.0	84.7
HEA 400	390.0	11.0	300.0	19.0	27.0	352.0	298.0	159.0	125.0	45070.0	2311.0	16.8	8564.0	571.0	7.3	2562.0	873.0	189.0
DIL 400	400.0	11.0	300.0	24.0	27.0	352.0	298.0	189.0	148.0	56770.0	2839.0	17.3	10810.0	721.0	7.6	3154.0	1098.0	325.0
HEB 400	400.0	13.5	300.0	24.0	27.0	352.0	298.0	198.0	155.0	57680.0	2884.0	17.1	10820.0	721.0	7.4	3232.0	1104.0	355.0
HEM 400	432.0	21.0	307.0	40.0	27.0	352.0	298.0	326.0	256.0	104100.0	4820.0	17.9	19340.0	1260.0	7.7	5571.0	1934.0	1515.0
HEA A 450	425.0	10.0	300.0	13.5	27.0	398.0	344.0	127.0	99.7	41890.0	1971.0	18.2	6088.0	406.0	6.9	2183.0	624.0	95.6
HEA 450	440.0	11.5	300.0	21.0	27.0	398.0	344.0	178.0	140.0	63720.0	2896.0	18.9	9465.0	631.0	7.3	3216.0	966.0	244.0
DIL 450	450.0	11.5	300.0	26.0	27.0	398.0	344.0	208.0	163.0	78570.0	3492.0	19.4	11720.0	781.0	7.5	3883.0	1191.0	406.0
HEB 450	450.0	14.0	300.0	26.0	27.0	398.0	344.0	218.0	171.0	79890.0	3551.0	19.1	11720.0	781.0	7.3	3982.0	1198.0	440.0
HEM 450	478.0	21.0	307.0	40.0	27.0	398.0	344.0	335.0	263.0	131500.0	5501.0	19.8	19340.0	1260.0	7.6	6331.0	1939.0	1529.0