



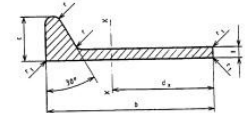
## FICHA TECNICA / DATA SHEET

### LLANTA BULBO / BULB FLAT (HP) UNE-EN 10067: 1997

Dimensiones y características geométricas / Dimensions and geometric characteristics

Pesos en Kg/m y Área de la sección transversal en cm<sup>2</sup> de barras de acero /

Weights in Kg/m and Cross-sectional area in cm<sup>2</sup> of steel bars.



Calidad / Quality : S275JR / S355J2 / **NAVAL A**

Dimensión nominal	Dimensiones para				Sección transversal	Masa/Ud de longitud	Superficie lateral	Distancia al centro de gravedad	Características geométricas respecto al eje x-x	
	b	t	c	r	A	G	U	d	I <sub>x</sub>	W <sub>x</sub>
	mm	mm	mm	mm	cm <sup>2</sup>	Kg/m	m <sup>2</sup> /m	cm	cm <sup>4</sup>	cm <sup>3</sup>
80 x 5	80	5	14	4	5.41	4.25	0.189	4.9	33.87	6.91
80 x 6	80	6	14	4	6.21	4.88	0.191	4.78	38.7	8.1
100 x 7	100	7	15.5	4.5	8.74	6.68	0.236	5.87	85.3	14.5
100 x 8	100	8	15.5	4.5	9.74	7.65	0.238	5.78	94.3	16.3
120 x 6	120	6	17	5	9.32	7.32	0.276	7.21	133	18.5
120 x 7	120	7	17	5	10.52	8.26	0.278	7.07	149	21
120 x 8	120	8	17	5	11.72	9.2	0.28	6.96	165	23.6
140 x 7	140	7	19	5.5	12.43	9.75	0.32	8.32	241	29
140 x 8	140	8	19	5.5	13.83	10.85	0.322	8.18	266	32.5
140 x 10	140	10	19	5.5	16.63	13.05	0.326	7.99	315	39.5
160 x 7	160	7	22	6	14.6	11.46	0.365	9.66	373	38.6
160 x 8	160	8	22	6	16.2	12.72	0.367	9.5	411	43.3
160 x 9	160	9	22	6	17.8	13.97	0.369	9.37	449	47.9
160 x 11	160	11	22	6	21	16.49	0.373	9.16	522	57
180 x 8	180	8	25	7	18.86	14.8	0.411	10.89	609	55.9
180 x 9	180	9	25	7	20.66	16.22	0.413	10.73	664	61.8
180 x 10	180	10	25	7	22.46	17.63	0.415	10.59	717	67.7
180 x 11	180	11	25	7	24.26	19.04	0.417	10.47	770	73.5
200 x 9	200	9	28	8	23.66	18.57	0.457	12.12	942	77.7
200 x 10	200	10	28	8	25.66	20.14	0.459	11.96	1017	85.1



200 x 11	200	11	28	8	27.66	21.71	0.461	11.82	1091	92.3
200 x 12	200	12	28	8	29.66	23.28	0.463	11.69	1164	99.5
220 x 10	220	10	31	9	29	22.77	0.503	13.35	1396	105
220 x 11	220	11	31	9	31.2	24.5	0.506	13.19	1496	114
220 x 12	220	12	31	9	33.4	26.22	0.507	13.04	1595	122
240 x 10	240	10	34	10	32.49	25.5	0.547	14.77	1865	126
240 x 11	240	11	34	10	34.89	27.39	0.549	14.58	1997	137
240 x 12	240	12	34	10	37.29	29.27	0.551	14.42	2127	148
260 x 10	260	10	37	11	36.11	28.35	0.591	16.22	2434	150
260 x 11	260	11	37	11	38.71	30.39	0.593	16	2605	163
260 x 12	260	12	37	11	41.31	32.43	0.596	15.81	2774	175
280 x 11	280	11	40	12	42.68	33.5	0.637	17.44	3333	191
280 x 12	280	12	40	12	45.48	35.7	0.639	17.23	3647	206
280 x 13	280	13	40	12	48.28	37.9	0.641	17.04	3757	221
300 x 11	300	11	43	13	43.78	36.7	0.681	18.9	4192	222
300 x 12	300	12	43	13	49.79	39.09	0.683	18.7	4459	239
300 x 13	300	13	43	13	52.79	41.44	0.685	18.45	4722	256
320 x 12	320	12	46	14	54.25	42.6	0.728	20.12	5525	275
320 x 13	320	13	46	14	57.45	45.09	0.73	19.89	5849	294
320 x 14	320	14	46	14	60.85	47.6	0.732	19.68	6168	313
340 x 12	340	12	49	15	58.84	46.2	0.772	21.69	6757	313
340 x 13	340	13	49	15	62.24	48.86	0.774	21.34	7540	335
340 x 14	340	14	49	15	65.54	51.5	0.776	21.1	7152	357
370 x 13	370	13	53.5	16.5	69.7	54.7	0.84	23.54	9469	402
370 x 14	370	14	53.5	16.5	73.4	57.6	0.842	23.29	9980	429
370 x 15	370	15	53.5	16.5	77.1	60.5	0.844	23.06	10483	456
400 x 14	400	14	58	18	81.48	63.96	0.908	25.49	12924	507
400 x 15	400	15	58	18	85.48	67.1	0.91	25.24	13573	538
400 x 16	400	16	58	18	89.49	70.2	0.912	25	14211	568
430 x 14	430	14	62.5	19.5	89.7	70.6	0.975	27.7	16460	594
430 x 15	430	15	62.5	19.5	94.19	73.9	0.976	27.46	17249	629
430 x 17	430	17	62.5	19.5	102.79	80.7	0.98	26.95	18853	700
430 x 19	430	19	62.5	19.5	111.39	87.4	0.984	26.53	20413	770
430 x 20	430	20	62.5	19.5	115	90.8	0.986	26.3	21180	804

