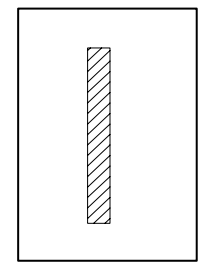
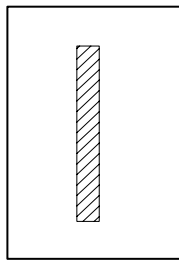


**PROPIEDADES DE SECCIONES RECTANGULARES
(PLACAS) PESO EN Kgs. POR METRO LINEAL**

**PESO EN KG./M DE LAS SECCIONES
RECTANGULARES**



ANCHURA		ESPESOR							ANCHURA		ESPESOR						
		3 / 16"	1 / 4"	5 / 16"	3 / 8"	7 / 16"	1 / 2"	9 / 16"			5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1 "
Pulg.	mm.	4.8 mm.	6.4 mm.	7.9 mm.	9.5 mm.	1.1 mm.	2.7 mm.	4.3 mm.	Pulg.	mm.	5.9 mm.	7.5 mm.	9.1 mm.	20.6 mm.	22.2 mm.	23.8 mm.	25.4 mm.
1/4	6.4	0.24	0.32	0.40	0.47	0.55	0.63	0.71	1/4	6.4	0.79	0.87	0.95	1.03	1.11	1.19	1.26
1/2	12.7	0.47	0.63	0.79	0.95	1.11	1.26	1.42	1/2	12.7	1.58	1.74	1.90	2.06	2.21	2.37	2.53
3/4	19.1	0.71	0.95	1.19	1.42	1.66	1.90	2.13	3/4	19.1	2.37	2.61	2.85	3.08	3.32	3.56	3.79
1	25.4	0.95	1.26	1.58	1.90	2.21	2.53	2.85	1	25.4	3.16	3.48	3.79	4.11	4.43	4.74	5.06
1 1/4	31.8	1.19	1.58	1.98	2.37	2.77	3.16	3.56	1 1/4	31.8	3.95	4.35	4.74	5.14	5.53	5.93	6.32
1 1/2	38.1	1.42	1.90	2.37	2.85	3.32	3.79	4.27	1 1/2	38.1	4.74	5.22	5.69	6.17	6.64	7.11	7.59
1 3/4	44.5	1.66	2.21	2.77	3.32	3.87	4.43	4.98	1 3/4	44.5	5.53	6.09	6.64	7.19	7.75	8.30	8.85
2	50.8	1.90	2.53	3.16	3.79	4.43	5.06	5.69	2	50.8	6.32	6.96	4.59	8.22	8.85	9.49	10.12
2 1/4	57.2	2.13	2.85	3.56	4.27	4.98	5.69	6.40	2 1/4	57.2	7.11	7.83	8.54	9.25	9.96	10.67	11.38
2 1/2	63.5	2.37	3.16	3.95	4.74	5.53	6.32	7.11	2 1/2	63.5	7.91	8.70	9.49	10.28	11.07	11.86	12.65
2 3/4	69.9	2.61	3.48	4.35	5.22	6.09	6.96	7.83	2 3/4	69.9	8.70	9.57	10.43	11.30	12.17	13.04	13.91
3	76.2	2.85	3.79	4.74	5.69	6.64	7.59	8.54	3	76.2	9.49	10.43	11.38	12.33	13.28	14.23	15.18
3 1/4	82.6	3.08	4.11	5.14	6.17	7.19	8.22	9.25	3 1/4	82.6	10.28	11.30	12.33	13.36	14.39	15.42	16.44
3 1/2	88.9	3.32	4.43	5.53	6.64	7.75	8.85	9.96	3 1/2	88.9	11.07	12.17	13.28	14.39	15.49	16.6	17.71
3 3/4	95.3	3.56	4.74	5.93	7.11	8.30	9.49	10.67	3 3/4	95.3	11.86	13.04	14.23	15.42	16.60	17.79	18.97
4	101.6	3.79	5.06	6.32	7.59	8.85	10.12	11.38	4	101.6	12.65	13.91	15.18	16.44	17.71	18.97	20.24
4 1/4	108.0	4.03	5.38	6.72	8.06	9.41	10.75	12.09	4 1/4	108.0	13.44	14.78	16.13	17.47	18.81	20.16	21.5
4 1/2	114.3	4.27	5.69	7.11	8.54	9.96	11.38	12.81	4 1/2	114.3	14.23	15.65	17.08	18.50	19.92	21.34	22.77
4 3/4	120.7	4.51	6.01	7.51	9.01	10.51	12.02	13.52	4 3/4	120.7	15.02	16.52	18.02	19.53	21.03	22.53	24.03
5	127.0	4.74	6.32	7.91	9.49	11.07	12.65	14.23	5	127.0	15.81	17.39	18.97	20.55	22.13	23.72	25.30
5 1/4	133.4	4.98	6.64	8.30	9.96	11.62	13.28	14.94	5 1/4	133.4	16.60	18.26	19.92	21.58	23.24	24.90	26.56
5 1/2	139.7	5.22	6.96	8.70	10.43	12.17	13.91	15.65	5 1/2	139.7	17.39	19.13	20.87	22.61	24.35	26.09	27.83
5 3/4	146.1	5.45	7.27	9.09	10.91	12.73	14.55	16.36	5 3/4	146.1	18.18	20.00	21.82	23.64	25.45	27.27	29.09
6	152.4	5.69	7.59	9.49	11.38	13.28	15.18	17.08	6	152.4	18.97	20.87	22.77	24.66	26.56	28.46	30.36
6 1/4	158.8	5.93	7.91	9.88	11.86	13.83	15.81	17.79	6 1/4	158.8	19.76	21.74	23.72	25.69	27.67	29.64	31.62
6 1/2	165.1	6.17	8.22	10.28	12.33	14.39	16.44	18.50	6 1/2	165.1	20.55	22.61	24.66	26.72	28.78	30.83	32.89
6 3/4	171.5	6.40	8.54	10.67	12.81	14.94	17.08	19.21	6 3/4	171.5	21.34	23.48	25.61	27.75	29.88	32.02	34.15

ANCHURA		ESPESOR							ANCHURA		ESPESOR						
		3 / 16"	1 / 4"	5 / 16"	3 / 8"	7 / 16"	1 / 2"	9 / 16"			5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1 "
Pulg.	mm.	4.8 mm.	6.4 mm.	7.9 mm.	9.5 mm.	11.1 mm.	12.7 mm.	14.3 mm.	Pulg.	mm.	5.9 mm.	7.5 mm.	9.1 mm.	10.6 mm.	12.2 mm.	13.8 mm.	15.4 mm.
7	177.8	6.64	8.85	11.07	13.28	15.49	17.71	19.92	7	177.8	22.13	24.35	26.56	28.78	30.99	33.20	35.42
7 1/4	184.2	6.88	9.17	11.46	13.76	16.05	18.34	20.63	7 1/4	184.2	22.93	25.22	27.51	29.80	32.10	34.39	36.68
7 1/2	190.5	7.11	9.49	11.86	14.23	16.60	18.97	21.34	7 1/2	190.5	23.72	26.09	28.46	30.83	33.20	35.57	37.95
7 3/4	196.9	7.35	9.80	12.25	14.70	17.15	19.60	22.06	7 3/4	196.9	24.51	26.96	29.41	31.86	34.31	36.76	39.21
8	203.2	7.59	10.12	12.65	15.18	17.71	20.24	22.77	8	203.2	25.30	27.83	30.36	32.89	35.42	37.95	40.47
8 1/4	209.6	7.83	10.43	13.04	15.65	18.26	20.87	23.48	8 1/4	209.6	26.09	28.70	31.30	33.91	36.52	39.13	41.74
8 1/2	215.9	8.06	10.75	13.44	16.13	18.81	21.50	24.19	8 1/2	215.9	26.88	29.57	32.25	34.94	37.63	40.32	43.00
8 3/4	222.3	8.30	11.07	13.83	16.60	19.37	22.13	24.96	8 3/4	222.3	27.67	30.44	33.20	35.97	38.74	41.50	44.27
9	228.6	8.54	11.38	14.23	17.08	19.92	22.77	25.50	9	228.6	28.46	31.30	34.15	37.00	39.84	42.69	45.53
9 1/4	235.0	8.77	11.70	14.62	17.55	20.47	23.40	26.02	9 1/4	235.0	29.25	32.17	35.10	38.02	40.95	43.87	46.80
9 1/2	241.3	9.01	12.02	15.02	18.02	21.03	24.03	26.63	9 1/2	241.3	30.04	33.04	36.05	39.05	42.06	45.06	48.06
9 3/4	247.7	9.25	12.33	15.35	18.50	21.58	24.66	27.25	9 3/4	247.7	30.83	33.91	37.00	40.08	43.16	46.25	49.33
10	254.0	9.49	12.65	15.81	18.97	22.13	25.30	27.86	10	254.0	31.62	34.78	37.95	41.11	44.27	47.43	50.59
10 1/4	260.4	9.72	12.96	16.21	19.45	22.69	25.93	28.50	10 1/4	260.4	41.33	45.46	49.60	53.73	57.86	62.00	66.13
10 1/2	266.7	9.96	13.28	16.60	19.92	23.24	26.56	29.18	10 1/2	266.7	42.34	46.57	50.81	55.04	59.27	63.51	67.74
10 3/4	273.1	10.20	13.60	17.00	20.40	23.79	27.19	30.59	10 3/4	273.1	43.35	47.68	52.02	56.35	60.69	65.02	69.35
11	279.4	10.43	13.91	17.39	20.87	24.35	27.83	31.30	11	279.4	44.36	48.79	53.23	57.66	62.10	66.53	70.97
11 1/4	385.8	10.67	14.23	17.79	21.34	24.90	28.46	32.02	11 1/4	285.8	45.36	49.90	54.44	58.97	63.51	68.04	72.58
11 1/2	292.1	10.91	14.55	18.18	21.82	25.45	29.09	32.73	11 1/2	292.1	46.37	51.01	55.65	60.28	64.92	69.56	74.19
11 3/4	298.5	11.15	14.86	18.58	22.29	26.01	29.72	33.44	11 3/4	298.5	47.38	52.12	56.85	61.59	66.33	71.07	75.81
12	304.8	11.38	15.18	18.97	22.77	26.56	30.36	34.15	12	304.8	48.39	53.23	58.06	62.90	67.74	72.58	77.42
12 1/2	317.5	11.86	15.81	19.76	23.72	27.67	31.62	35.57	12 1/2	317.5	50.40	55.44	60.48	65.52	70.56	75.60	80.65
13	330.2	12.33	16.44	20.55	24.66	28.78	32.89	37.00	13	330.2	52.42	57.66	62.90	68.15	73.39	78.63	83.87
13 1/2	342.9	12.81	17.08	21.34	25.61	29.88	34.15	38.42	13 1/2	342.9	54.44	59.88	65.32	70.77	76.21	81.65	87.10
14	355.6	13.28	17.71	22.13	26.56	30.99	35.42	39.84	14	355.6	56.45	62.10	67.74	73.39	79.03	84.68	90.32
14 1/4	368.3	13.76	18.34	22.93	27.51	32.10	36.68	41.27	14 1/2	368.3	58.47	64.31	70.16	76.01	81.85	87.70	93.55
15	381.0	14.23	18.97	23.72	28.46	33.20	37.95	42.69	15	381.0	60.48	66.53	72.58	78.63	84.68	90.73	96.77
15 1/2	393.7	14.70	19.60	24.51	29.41	34.31	39.21	44.11	15 1/2	393.7	62.50	68.75	75.00	81.25	87.50	93.75	100.00
16	406.4	15.18	20.24	25.30	30.36	35.42	40.47	45.53	16	406.4	64.52	70.97	77.42	83.87	90.32	96.77	103.23
16 1/2	419.1	15.65	20.87	26.09	31.30	36.52	41.74	46.96	16 1/2	419.1	66.53	73.19	79.84	86.49	93.14	99.80	106.45
17	431.8	16.13	21.50	26.88	32.25	37.63	43.00	48.38	17	431.8	68.55	75.40	82.26	89.11	95.97	102.82	109.68
17 1/2	444.5	16.60	22.14	27.67	33.20	38.74	44.27	49.8	17 1/2	444.5	70.56	77.62	84.68	91.73	98.79	105.85	112.90
18	457.2	17.08	22.77	28.46	34.15	39.84	45.53	51.23	18	457.2	72.58	79.84	87.10	94.35	101.61	108.87	116.13

ANCHURA		ESPEJOR							ANCHURA		ESPEJOR						
Pulg.	mm.	3 / 16"	1 / 4"	5 / 16"	3 / 8"	7 / 16"	1 / 2"	9 / 16"	Pulg.	mm.	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1 "
		4.8 mm.	6.4 mm.	7.9 mm.	9.5 mm.	1.1 mm.	2.7 mm.	4.3 mm.			5.9 mm.	7.5 mm.	9.1 mm.	20.6 mm.	22.2 mm.	23.8 mm.	25.4 mm.
18 1/2	469.9	17.55	23.40	29.25	35.10	40.95	46.80	52.65	18 1/2	769.9	74.60	82.06	89.52	96.98	104.44	111.89	119.35
19	482.6	18.02	24.03	30.04	36.05	42.06	42.06	54.07	19	482.6	76.61	84.27	91.94	99.60	107.26	114.92	122.58
19 1/2	495.3	18.50	24.66	30.83	37.00	43.16	43.16	55.49	19 1/2	495.3	78.63	86.49	94.35	102.22	110.08	117.94	125.81
20	508.0	18.97	25.30	31.62	37.95	44.27	44.27	56.92	20	508.0	80.65	88.71	96.77	104.84	112.90	120.97	129.03
20 1/2	520.7	19.45	25.93	32.41	38.89	45.38	51.86	58.34	20 1/2	520.7	82.66	90.93	99.19	107.46	115.73	123.99	132.26
21	533.4	19.92	26.56	33.20	39.84	46.48	53.12	59.76	21	533.4	84.68	93.15	101.61	110.08	118.55	127.02	135.48
21 1/2	546.1	20.40	27.19	33.99	40.79	47.59	54.39	61.19	21 1/2	546.1	86.69	95.36	104.03	112.70	121.37	130.04	138.71
22	558.8	20.87	27.83	34.78	41.74	48.70	55.65	62.61	22	558.8	88.71	97.58	106.45	115.32	124.19	133.06	141.94
22 1/2	571.5	21.34	28.46	35.57	42.69	49.80	56.92	64.03	22 1/2	571.5	90.73	99.80	108.87	117.94	127.02	136.09	145.16
23	584.2	21.82	29.09	36.36	43.64	50.91	58.18	65.46	23	584.2	92.74	102.02	111.29	120.56	129.84	139.11	148.39
23 1/2	596.9	22.29	29.72	37.15	44.59	52.02	59.45	66.88	23 1/2	596.9	94.76	104.23	113.71	123.19	132.66	142.14	151.61
24	609.6	22.77	30.36	37.95	45.53	53.12	60.71	68.3	24	609.6	96.77	106.45	116.13	125.81	135.48	145.16	154.84
25	635.0	23.72	31.62	39.53	47.43	55.34	63.24	71.15	25	635.0	100.81	110.89	120.97	131.05	141.13	151.21	161.29
26	660.4	24.66	32.89	41.11	49.33	57.55	65.77	73.99	26	660.4	104.84	115.32	125.81	136.29	146.77	157.26	167.74
27	685.8	25.61	34.15	42.69	51.23	59.76	68.30	76.84	27	685.8	108.87	119.76	130.64	141.53	152.42	163.31	174.19
28	711.2	26.56	35.42	44.27	53.12	61.987	70.83	79.68	28	711.2	112.90	124.19	135.48	146.77	158.06	169.35	180.64
29	736.6	27.51	36.68	45.85	55.02	64.19	73.36	82.53	29	736.6	116.94	128.63	140.32	152.02	163.71	175.40	187.10
30	762.0	28.46	37.95	47.43	56.92	66.40	75.89	85.38	30	762.0	120.97	133.06	145.16	157.26	169.35	181.45	193.55
31	787.4	29.41	39.21	49.01	58.81	68.62	78.42	88.22	31	787.4	125.00	137.50	150.00	162.50	175.00	187.50	200.00
32	812.8	30.36	40.47	50.59	60.71	70.83	80.95	91.07	32	812.8	129.03	141.94	154.84	167.74	180.64	193.55	206.45
33	838.2	31.30	41.74	52.17	62.61	73.04	83.48	93.91	33	838.2	133.06	146.37	159.68	172.98	186.29	199.60	212.90
34	863.6	32.25	43.00	53.76	64.51	75.26	86.01	96.76	34	863.6	137.10	150.81	164.52	178.23	191.94	205.64	219.35
35	889.0	33.20	44.27	55.34	66.40	77.47	88.54	99.61	35	889.0	141.13	155.24	169.35	183.47	197.58	211.69	225.81
36	914.4	34.15	45.53	56.92	68.30	79.68	91.07	102.45	36	914.4	145.16	159.68	174.19	188.71	203.23	217.74	232.26
37	939.8	35.10	46.80	58.50	70.20	81.90	93.60	105.30	37	939.8	149.19	164.11	179.03	193.95	208.87	223.79	238.71
38	965.2	36.05	48.06	60.08	72.10	84.11	96.13	108.14	38	965.2	153.23	168.55	183.87	199.19	214.52	229.84	245.16
39	990.6	37.00	49.33	61.66	73.99	86.33	98.66	110.99	39	990.6	157.26	172.98	188.71	204.44	220.16	235.89	251.61
40	1016.0	37.95	50.59	63.24	75.89	88.54	101.19	113.84	40	1016.0	161.29	177.42	193.55	209.68	225.81	241.94	258.06
41	1041.4	38.89	51.86	64.82	77.79	90.75	103.72	116.68	41	1041.4	165.32	181.85	198.39	214.92	231.45	247.98	264.52
42	1066.8	39.84	53.12	66.40	79.68	92.97	106.25	119.53	42	1066.8	169.32	186.29	203.23	220.16	237.10	254.03	270.97
43	1092.2	40.79	54.39	67.98	81.58	95.18	108.78	122.37	43	1092.2	173.39	190.73	208.06	225.40	242.74	260.08	277.42
44	1117.6	41.74	55.65	69.57	83.48	97.39	111.31	125.22	44	1117.6	177.42	195.16	212.90	230.64	248.39	266.13	283.87
45	1143.0	42.69	56.92	71.15	85.38	99.61	113.84	128.06	45	1143.0	181.45	199.60	217.74	235.89	254.03	272.18	290.32

ANCHURA		ESPEJOR							ANCHURA		ESPEJOR						
		3 / 16"	1 / 4"	5 / 16"	3 / 8"	7 / 16"	1 / 2"	9 / 16"			5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1 "
Pulg.	mm.	4.8 mm.	6.4 mm.	7.9 mm.	9.5 mm.	1.1 mm.	2.7 mm.	4.3 mm.	Pulg.	mm.	5.9 mm.	7.5 mm.	9.1 mm.	20.6 mm.	22.2 mm.	23.8 mm.	25.4 mm.
46	1168.4	43.64	58.18	72.73	87.27	101.82	116.36	130.91	46	1168.4	185.48	204.03	222.58	241.13	259.68	278.23	296.77
47	1193.8	44.59	59.45	74.31	89.17	104.03	118.89	133.76	47	1193.8	189.52	207.47	227.42	246.37	265.32	284.27	303.23
48	1219.2	45.53	60.71	75.89	91.07	106.25	121.42	136.60	48	1219.2	193.55	212.90	232.26	251.61	270.97	290.32	309.68
49	1244.6	46.48	61.98	77.47	92.97	108.46	123.95	139.45	49	1244.6	197.58	217.34	237.00	256.85	276.61	296.37	316.13
50	1270.0	47.43	63.24	79.05	94.86	110.67	126.48	142.29	50	1270.0	201.61	221.77	241.94	262.10	282.26	302.42	322.58
51	1295.4	48.38	64.51	80.63	96.76	112.89	129.01	145.14	51	1295.4	205.65	226.21	246.77	267.34	287.90	308.47	329.03
52	1320.8	49.33	65.77	82.21	98.66	115.10	131.54	147.99	52	1320.8	209.68	230.64	251.61	272.58	293.55	314.52	335.48
53	1346.2	50.28	67.04	83.80	100.55	117.31	134.07	150.83	53	1346.2	213.71	235.08	256.45	277.82	299.19	320.56	341.94
54	1371.6	51.23	68.30	85.38	102.45	119.53	136.60	153.68	54	1371.6	217.74	239.52	261.29	283.06	304.84	326.61	348.39
55	1397.0	52.17	69.57	86.96	104.35	121.74	139.13	156.52	55	1397.0	221.77	243.95	266.13	288.31	310.48	332.66	354.84
56	1422.4	53.12	70.83	88.54	106.25	123.95	141.66	159.37	56	1422.4	225.81	248.39	270.97	293.55	316.13	338.71	361.29
57	1447.8	54.07	72.10	90.12	108.14	126.17	144.19	162.22	57	1447.8	229.84	252.82	275.81	298.79	321.77	344.76	367.74
58	1473.2	55.02	73.36	91.70	110.04	128.38	146.72	165.06	58	1473.2	233.87	257.26	280.64	304.03	327.42	350.81	374.19
59	1498.6	55.97	74.63	93.28	111.94	130.59	149.25	167.91	59	1498.6	237.90	261.69	285.48	309.27	333.06	356.85	380.64
60	1524.0	56.92	75.89	94.86	113.84	132.81	151.78	170.75	60	1524.0	241.94	266.13	290.32	314.52	338.71	362.90	387.10
61	1549.4	57.87	77.15	96.44	115.73	135.02	154.31	173.6	61	1549.4	245.97	270.58	295.16	319.76	344.35	368.95	393.55
62	1574.8	58.81	78.42	98.02	117.63	137.23	156.84	176.44	62	1574.8	250.00	275.00	300.00	325.00	350.00	375.00	400.00
63	1600.2	59.76	79.68	99.61	119.53	139.45	159.37	179.29	63	1600.2	254.03	279.43	304.84	330.24	355.64	381.05	406.45
64	1625.6	60.71	80.95	101.19	121.42	141.66	161.90	182.14	64	1625.6	258.06	283.87	309.68	335.48	361.29	387.10	412.90
65	1651.0	61.66	82.21	102.77	123.32	143.88	164.43	184.98	65	1651.0	262.10	288.31	314.52	340.73	366.93	393.14	419.35
66	1676.4	62.61	83.48	104.35	125.22	146.09	166.96	187.83	66	1676.4	266.13	292.74	319.35	345.97	372.58	399.19	425.81
67	1701.8	63.56	84.74	105.93	127.12	148.30	169.46	190.67	67	1701.8	270.16	297.18	324.19	351.21	378.23	405.24	432.26
68	1727.2	64.51	86.01	107.51	129.01	150.52	172.02	193.52	68	1727.2	274.19	301.61	329.03	356.45	383.87	411.29	438.71
69	1752.6	65.46	87.27	109.09	130.91	152.73	174.55	196.37	69	1752.6	278.23	306.05	333.87	361.69	389.52	417.34	445.16
70	1778.0	66.40	88.54	110.67	132.81	154.94	177.08	199.21	70	1778.0	282.26	310.48	338.71	366.93	395.16	423.39	451.61
71	1803.4	67.35	89.80	112.25	134.71	157.16	179.61	202.06	71	1803.4	286.29	314.92	343.55	372.18	400.81	429.44	458.06
72	1828.8	68.30	91.07	113.84	136.60	159.37	182.14	204.90	72	1828.8	290.32	319.35	348.39	377.42	406.45	435.48	464.52