

PROPIEDADES DE SECCIONES RECTANGULARES
(PLACAS)

AREAS DE LAS SECCIONES EN CM²

AREA EN CM² 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.	10.6 mm.	22.2 mm.	23.8 mm.	25.4 mm.
1/4	6.4	0.30	0.40	0.50	0.60	0.71	0.81	0.91	1/4	6.4	1.01	1.11	1.21	1.31	1.41	1.51	1.61
1/2	12.7	0.60	0.81	1.01	1.21	1.41	1.61	1.82	1/2	12.7	2.02	2.22	2.42	2.62	2.82	3.02	3.23
3/4	19.1	0.91	1.21	1.51	1.81	2.12	2.42	2.72	3/4	19.1	3.02	3.33	3.63	3.93	4.23	4.54	4.84
1	25.4	1.21	1.61	2.02	2.42	2.82	3.23	3.63	1	25.4	4.03	4.44	4.84	5.24	5.65	6.05	6.45
1 1/4	31.8	1.51	2.02	2.52	3.02	3.53	4.03	4.54	1 1/4	31.8	5.04	5.54	6.05	6.55	7.06	7.56	8.06
1 1/2	38.1	1.81	2.42	3.02	3.63	4.23	4.84	5.44	1 1/2	38.1	6.05	6.65	7.26	7.86	8.47	9.07	9.68
1 3/4	44.5	2.12	2.82	3.53	4.23	4.94	5.65	6.35	1 3/4	44.5	7.06	7.76	8.47	9.17	9.88	10.58	11.29
2	50.8	2.42	3.23	4.03	4.84	5.65	6.45	7.26	2	50.8	8.07	8.87	9.68	10.48	11.29	12.10	12.90
2 1/4	57.2	2.72	3.63	4.54	5.44	6.35	7.26	8.17	2 1/4	57.2	9.07	9.98	10.89	11.79	12.70	13.61	14.52
2 1/2	63.5	3.02	4.03	5.04	6.05	7.06	8.07	9.07	2 1/2	63.5	10.08	11.09	12.10	13.10	14.11	15.12	16.13
2 3/4	69.9	3.33	4.44	5.54	6.65	7.76	8.87	9.98	2 3/4	69.9	11.09	12.20	13.31	14.42	15.52	16.63	17.74
3	76.2	3.63	4.84	6.05	7.26	8.47	9.68	10.89	3	76.2	12.10	13.31	14.52	15.73	16.94	18.15	19.35
3 1/4	82.6	3.93	5.24	6.55	7.86	9.17	10.48	11.79	3 1/4	82.6	13.02	14.42	15.73	17.04	18.35	19.66	20.97
3 1/2	88.9	4.23	5.65	7.06	8.47	9.88	11.29	12.70	3 1/2	88.9	14.11	15.52	16.94	18.35	19.76	21.17	22.58
3 3/4	95.3	4.54	6.05	7.56	9.07	10.59	12.10	13.61	3 3/4	95.3	15.12	16.63	18.15	19.66	21.17	22.68	24.19
4	101.6	4.84	6.45	8.06	9.68	11.29	12.90	14.52	4	101.6	16.13	17.74	19.35	20.97	22.58	24.19	25.81
4 1/4	108.0	5.14	6.85	8.57	10.28	12.00	13.71	15.42	4 1/4	108.0	17.14	18.85	20.56	22.28	23.99	25.71	27.42
4 1/2	114.3	5.44	7.26	9.07	10.89	12.70	14.52	16.33	4 1/2	114.3	18.15	19.96	21.77	23.59	25.40	27.22	29.03
4 3/4	120.7	5.75	7.66	9.58	11.49	13.41	15.32	17.24	4 3/4	120.7	19.15	21.07	22.98	24.90	26.81	28.73	30.65
5	127.0	6.05	8.07	10.08	12.10	14.11	16.13	18.15	5	127.0	20.16	22.18	24.19	26.21	28.23	30.24	32.26
5 1/4	133.4	6.35	8.47	10.59	12.70	14.82	16.94	19.05	5 1/4	133.4	21.17	23.29	25.40	27.52	29.64	31.75	33.87
5 1/2	139.7	6.65	8.87	11.09	13.31	15.52	17.74	19.96	5 1/2	139.7	22.18	24.40	26.61	28.83	31.05	33.27	35.48

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		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.
5 3/4	146.1	6.69	9.27	11.59	13.91	16.23	18.55	20.87	5 3/4	146.1	23.19	25.50	27.82	30.14	32.46	34.78	37.10
6	152.4	7.26	9.68	12.10	14.52	16.94	19.36	21.77	6	152.4	24.19	24.19	29.03	31.45	33.87	36.29	38.71
6 1/4	158.8	7.56	10.08	12.60	15.12	17.64	20.16	20.16	6 1/4	158.8	25.20	27.72	30.24	32.76	35.28	37.80	40.32
6 1/2	165.1	7.86	10.48	13.11	15.73	18.35	20.97	20.97	6 1/2	165.1	26.21	28.83	31.45	34.07	36.69	39.31	41.94
6 3/4	171.5	8.17	10.89	13.61	16.33	19.05	21.77	21.77	6 3/4	171.5	27.22	29.94	32.66	35.38	38.10	40.83	43.55
7	177.8	8.47	11.29	14.11	16.94	19.76	22.58	22.58	7	177.8	28.23	31.05	33.87	36.69	39.52	42.34	45.16
7 1/4	184.2	8.77	11.69	14.62	17.54	20.46	23.39	26.31	7 1/4	184.2	29.23	32.16	35.08	38.00	40.93	43.85	46.77
7 1/2	190.5	9.07	12.10	15.12	18.15	21.17	24.19	27.22	7 1/2	190.5	30.24	33.27	36.29	39.31	42.34	45.36	48.39
7 3/4	196.9	9.38	12.50	15.62	18.75	21.88	25.00	28.13	7 3/4	196.9	31.25	34.38	37.50	40.62	43.75	46.87	50.00
8	203.2	9.68	12.90	16.13	19.35	22.58	25.81	29.03	8	203.2	32.26	35.48	38.71	41.94	45.16	48.39	51.61
8 1/4	209.6	9.98	13.31	16.63	19.96	23.29	26.61	29.94	8 1/4	209.6	33.27	36.59	39.92	43.25	46.57	49.90	53.23
8 1/2	215.9	10.28	13.71	17.14	20.56	23.99	27.42	30.85	8 1/2	215.9	34.27	37.70	41.13	44.56	47.98	51.41	54.84
8 3/4	222.3	10.59	14.11	17.64	21.17	24.70	28.23	31.75	8 3/4	222.3	35.28	38.81	42.34	45.87	49.40	52.92	56.45
9	228.6	10.89	14.52	18.15	21.77	25.40	29.03	32.66	9	228.6	36.29	39.92	43.55	47.18	50.81	54.44	58.06
9 1/4	235.0	11.19	14.92	18.65	22.38	26.11	29.84	33.57	9 1/4	235.0	37.30	41.03	44.76	48.49	52.22	55.95	59.68
9 1/2	241.3	11.49	15.32	19.15	22.98	26.81	30.65	34.48	9 1/2	241.3	38.31	42.14	45.97	49.80	53.63	57.46	61.29
9 3/4	247.7	11.79	15.73	19.66	23.59	27.52	31.45	35.38	9 3/4	247.7	39.31	43.25	47.18	51.11	55.04	58.97	62.90
10	254.0	12.10	16.13	20.16	24.19	28.23	32.26	36.29	10	254.0	40.32	44.36	48.39	52.42	56.45	60.48	64.52
10 1/4	260.4	12.40	16.53	20.67	24.80	28.93	33.06	37.20	10 1/4	260.4	41.33	45.46	49.60	53.73	57.86	62.00	66.13
10 1/2	266.7	12.70	16.94	21.17	25.40	29.64	33.87	38.11	10 1/2	266.7	42.34	46.57	50.81	55.04	59.27	63.51	67.74
10 3/4	273.1	13.00	17.34	21.67	26.01	30.34	34.68	39.01	10 3/4	273.1	43.35	47.68	52.02	56.35	60.69	65.02	69.35
11	279.4	13.31	17.74	22.18	26.61	31.05	34.48	39.92	11	279.4	44.36	48.79	53.23	57.66	62.10	66.53	70.97
11 1/4	285.8	13.61	18.15	22.68	27.22	31.75	36.29	40.83	11 1/4	285.8	45.36	49.90	54.44	58.97	63.51	68.04	72.58
11 1/2	292.1	13.91	18.55	23.19	27.82	32.46	37.10	41.73	11 1/2	292.1	46.37	51.01	55.65	60.28	64.92	69.56	74.19
11 3/4	298.5	14.21	18.95	23.69	28.43	33.17	37.90	42.64	11 3/4	298.5	47.38	52.12	56.85	61.59	66.33	71.07	75.81
12	304.8	14.52	19.35	24.19	29.03	33.87	38.71	43.55	12	304.8	48.39	53.23	58.06	62.90	67.74	72.58	77.42
12 1/4	317.5	15.12	20.16	25.20	30.24	35.28	40.32	45.36	12 1/4	317.5	50.40	55.44	60.48	65.52	70.56	75.60	80.65
13	330.2	15.73	20.97	26.21	31.45	36.69	41.94	47.18	13	330.2	52.42	57.66	62.90	68.15	73.39	78.63	83.87

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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.
13 1/2	342.9	16.33	21.77	27.22	32.66	38.11	43.55	48.99	13 1/2	342.9	54.44	59.88	65.32	70.77	76.21	81.65	87.10
14	355.6	16.94	22.58	28.23	33.87	39.52	45.16	50.81	14	355.6	56.45	62.10	67.74	73.39	79.03	84.68	90.32
14 1/2	368.3	17.54	23.39	29.23	35.08	40.93	46.77	52.62	14 1/2	368.3	58.47	64.31	70.16	76.01	81.85	87.70	93.55
15	381.0	18.15	24.19	30.24	36.29	42.34	48.39	54.44	15	381.0	60.48	66.53	72.58	78.63	84.68	90.73	96.77
15 1/2	393.7	18.75	25.00	31.25	37.50	43.75	50.00	56.25	15 1/2	393.7	62.50	68.75	75.00	81.25	87.50	93.75	100.00
16	406.4	19.35	25.81	32.26	38.71	45.16	51.61	58.06	16	406.4	64.52	70.97	77.42	83.87	90.32	96.77	103.23
16 1/2	419.1	19.96	26.61	33.27	39.92	46.57	53.23	59.88	16 1/2	419.1	66.53	73.19	79.84	86.49	93.14	99.80	106.45
17	431.8	20.56	27.42	34.27	41.13	47.13	54.84	61.69	17	431.8	68.55	75.40	82.26	89.11	95.97	102.82	109.68
17 1/2	444.5	21.17	28.23	35.28	42.34	48.34	56.45	63.51	17 1/2	444.5	70.56	77.62	84.68	91.73	98.79	105.85	112.90
18	457.2	21.77	29.03	36.29	43.55	49.55	58.06	65.32	18	457.2	72.58	79.84	87.10	94.35	101.61	108.87	116.13
18 1/2	469.9	22.38	29.84	37.30	44.76	51.22	59.68	67.14	18 1/2	469.9	74.60	82.06	89.52	96.98	104.44	111.89	119.35
19	482.6	22.98	30.65	38.31	45.97	53.63	61.29	68.95	19	482.6	76.61	84.27	91.94	99.60	107.26	114.92	122.58
19 1/2	495.3	23.59	31.45	39.31	47.18	55.04	62.60	70.77	19 1/2	495.3	78.63	86.49	94.35	102.22	110.08	117.94	125.81
20	508.0	24.19	32.26	40.32	48.39	56.45	64.52	72.58	20	508.0	80.65	88.71	96.77	104.84	112.90	120.97	129.03
20 1/2	520.7	24.80	33.06	41.33	49.60	57.86	66.13	74.40	20 1/2	520.7	82.66	90.93	99.19	107.46	115.73	123.99	132.26
21	533.4	25.40	33.87	42.34	50.81	59.27	67.74	76.21	21	533.4	84.68	93.15	101.61	110.08	118.55	127.02	135.48
21 1/2	546.1	26.01	34.68	43.35	52.02	60.69	69.36	78.02	21 1/2	546.1	86.69	95.36	104.03	112.70	121.37	130.04	138.71
22	558.8	26.61	35.48	44.35	53.23	62.10	70.97	79.84	22	558.8	88.71	97.58	106.45	115.32	124.19	133.06	141.94
22 1/2	571.5	27.22	36.29	45.36	54.44	63.51	72.58	81.65	22 1/2	571.5	90.73	99.80	108.87	117.94	127.02	136.09	145.16
23	584.2	27.82	37.10	46.37	55.65	64.92	74.19	83.47	23	584.2	92.74	102.02	111.29	120.56	129.84	139.11	148.39
23 1/2	596.9	28.42	37.90	47.38	56.85	66.33	75.81	85.28	23 1/2	596.9	94.76	104.23	113.71	123.19	132.66	142.14	151.61
24	609.6	29.03	38.71	48.39	58.06	67.74	77.42	87.10	24	609.6	96.77	106.45	116.13	125.81	135.48	145.16	154.84
25	635.0	30.24	40.32	50.40	60.48	70.56	80.65	90.73	25	635.0	100.81	110.89	120.97	131.05	141.13	151.21	161.29
26	660.4	31.45	41.94	52.42	62.90	73.39	83.87	94.36	26	660.4	104.84	115.32	125.81	136.29	146.77	157.26	167.74
27	685.8	32.66	43.55	54.44	65.32	76.21	87.10	97.98	27	685.8	108.87	119.76	130.64	141.53	152.42	163.31	174.19
28	711.2	33.87	45.16	56.45	67.74	79.03	90.32	101.61	28	711.2	112.90	124.19	135.48	146.77	158.06	169.35	180.64
29	736.6	35.08	46.77	46.77	70.16	81.86	93.55	105.24	29	736.6	116.94	128.63	140.32	152.02	163.71	175.40	187.10
30	762.0	36.29	48.39	48.39	72.58	84.68	96.77	108.87	30	762.0	120.97	133.06	145.16	157.26	169.35	181.45	193.55
31	787.4	37.50	50.00	50.00	75.00	87.50	100.00	112.50	31	787.4	125.00	137.50	150.00	162.50	175.00	187.50	200.00

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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.
32	812.8	38.71	51.61	51.61	77.42	90.32	103.23	116.13	32	812.8	129.03	141.94	154.84	167.74	180.64	193.55	206.45
33	838.2	39.92	53.23	66.53	79.84	93.15	106.45	119.76	33	838.2	133.06	146.37	159.68	172.98	186.29	199.60	212.90
34	863.6	41.13	54.84	68.55	82.26	95.97	109.68	123.39	34	863.6	137.10	150.81	164.52	178.23	191.94	205.64	219.35
35	889.0	42.34	56.45	70.56	84.68	98.79	112.90	127.02	35	889.0	141.13	155.24	169.35	183.47	197.58	211.69	225.81
36	914.4	43.55	58.06	72.58	87.10	101.61	116.13	130.65	36	914.4	145.16	159.68	174.19	188.71	203.23	217.74	232.26
37	939.8	44.76	59.68	74.60	89.52	104.44	119.36	134.27	37	939.8	149.19	164.11	179.03	193.95	208.87	223.79	238.71
38	965.2	45.97	61.29	76.61	91.94	107.26	122.58	137.90	38	965.2	153.23	168.55	183.87	199.19	214.52	229.84	245.16
39	990.6	47.18	62.90	78.63	94.35	110.08	125.81	141.53	39	990.6	157.26	172.98	188.71	204.44	220.16	235.89	251.61
40	1016.0	48.39	64.52	80.65	96.77	112.90	129.03	145.16	40	1016.0	161.29	177.42	193.55	209.68	225.81	241.94	258.06
41	1041.4	49.60	66.13	82.66	99.19	115.73	132.26	148.79	41	1041.4	165.32	181.85	198.39	214.92	231.45	247.98	264.52
42	1066.8	50.81	67.74	84.68	101.61	118.55	135.48	152.42	42	1066.8	169.32	186.29	203.23	220.16	237.10	254.03	270.97
43	1092.2	52.02	69.35	86.69	104.03	121.37	138.71	156.05	43	1092.2	173.39	190.73	208.06	225.40	242.74	260.08	277.42
44	1117.6	53.23	70.97	88.71	106.45	124.19	141.94	159.68	44	1117.6	177.42	195.16	212.90	230.64	248.39	266.13	283.87
45	1143.0	54.44	72.58	90.73	108.87	127.02	145.16	163.31	45	1143.0	181.45	199.60	217.74	235.89	254.03	272.18	290.32
46	1168.4	55.65	74.19	92.74	111.29	129.84	148.39	166.94	46	1168.4	185.48	204.03	222.58	241.13	259.68	278.23	296.77
47	1193.8	56.85	75.81	94.76	113.71	132.66	151.61	170.56	47	1193.8	189.52	207.47	227.42	246.37	265.32	284.27	303.23
48	1219.2	58.06	77.42	96.77	116.13	135.48	154.84	174.19	48	1219.2	193.55	212.90	232.26	251.61	270.97	290.32	309.68
49	1244.6	59.27	79.03	98.79	118.55	138.31	158.06	177.82	49	1244.6	197.58	217.34	237.00	256.85	276.61	296.37	316.13
50	1270.0	60.48	80.64	100.81	120.97	141.13	161.24	181.45	50	1270.0	201.61	221.77	241.94	262.10	282.26	302.42	322.58
51	1295.4	61.69	82.26	102.82	123.39	143.95	164.52	185.08	51	1295.4	205.65	226.21	246.77	267.34	287.90	308.47	329.03
52	1320.8	62.90	83.87	104.84	125.81	146.77	167.74	188.71	52	1320.8	209.68	230.64	251.61	272.58	293.55	314.52	335.48
53	1346.2	64.11	85.48	106.85	128.23	149.60	170.97	192.34	53	1346.2	213.71	235.08	256.45	277.82	299.19	320.56	341.94
54	1371.6	65.32	87.10	108.87	130.65	152.42	174.19	195.97	54	1371.6	217.74	239.52	261.29	283.06	304.84	326.61	348.39
55	1397.0	66.53	88.71	110.89	133.06	155.24	177.42	199.60	55	1397.0	221.77	243.95	266.13	288.31	310.48	332.66	354.84
56	1422.4	67.74	90.32	112.90	135.48	158.06	180.65	203.23	56	1422.4	225.81	248.39	270.97	293.55	316.13	338.71	361.29
57	1447.8	68.95	91.94	114.92	137.90	160.89	183.87	206.85	57	1447.8	229.84	252.82	275.81	298.79	321.77	344.76	367.74
58	1473.2	70.16	93.55	116.94	140.32	163.71	187.10	210.48	58	1473.2	233.87	257.26	280.64	304.03	327.42	350.81	374.19
59	1498.6	71.37	95.16	118.95	142.74	166.53	190.32	214.11	59	1498.6	237.90	261.69	285.48	309.27	333.06	356.85	380.64
60	1524.0	72.58	96.77	120.97	145.16	169.36	193.55	217.74	60	1524.0	241.94	266.13	290.32	314.52	338.71	362.90	387.10

ANCHURA		ESPESOR							ANCHURA		ESPESOR						
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.

61	1549.4	73.79	98.39	122.98	147.58	172.18	196.77	221.37	61	1549.4	245.97	270.58	295.16	319.76	344.35	368.95	393.55
62	1574.8	75.00	100.00	125.00	150.00	175.00	200.00	225.07	62	1574.8	250.00	275.00	300.00	325.00	350.00	375.00	400.00
63	1600.2	76.21	101.61	127.02	152.42	177.82	203.23	228.00	63	1600.2	254.03	279.43	304.84	330.24	355.64	381.05	406.45
64	1625.6	77.42	103.23	129.03	154.84	180.65	206.45	232.26	64	1625.6	258.06	283.87	309.68	335.48	361.29	387.10	412.90
65	1651.0	78.63	104.84	131.05	157.26	183.47	209.68	235.89	65	1651.0	262.10	288.31	314.52	340.73	366.93	393.14	419.35
66	1676.4	79.84	106.45	133.06	159.68	186.29	212.90	239.52	66	1676.4	266.13	292.74	319.35	345.97	372.58	399.19	425.81
67	1701.8	81.05	108.06	135.08	162.10	189.11	216.13	243.15	67	1701.8	270.16	297.18	324.19	351.21	378.23	405.24	432.26
68	1727.2	82.26	109.68	137.10	164.52	191.94	219.35	246.77	68	1727.2	274.19	301.61	329.03	356.45	383.87	411.29	438.71
69	1752.6	83.47	111.29	139.11	166.94	194.76	222.58	250.40	69	1752.6	278.23	306.05	333.87	361.69	389.52	417.34	445.16
70	1778.0	84.68	112.90	141.13	169.35	197.58	225.81	254.03	70	1778.0	282.26	310.48	338.71	366.93	395.16	423.39	451.61
71	1803.4	85.89	114.52	143.14	171.77	200.40	229.03	257.66	71	1803.4	286.29	314.92	343.55	372.18	400.81	429.44	458.06
72	1828.8	87.10	116.13	145.16	174.19	203.23	232.26	261.29	72	1828.8	290.32	319.35	348.39	377.42	406.45	435.48	464.52