

## TABELA DE BITOLAS

BITOLA	Massa Linear Kg/m	Espessura					
		d mm	b <sub>f</sub> mm	d' mm	h mm	t <sub>w</sub> mm	t <sub>f</sub> mm
W 150 x 13.0	13.0	148	100	118	138	4.3	4.9
W 150 x 18.0*	18.0	153	102	119	139	5.8	7.1
W 200 x 15.0	15.0	200	100	170	190	4.3	5.2
W 200 x 19.3**	19.3	203	102	170	190	5.8	6.5
W 200 x 22.5**	22.5	206	102	170	190	6.2	8.0
W 200 x 26.6**	26.6	207	133	170	190	5.8	8.4
W 200 x 31.3**	31.3	210	134	170	190	6.4	10.2
W 250 x 17.9	17.9	251	101	220	240	4.8	5.3
W 250 x 22.3**	22.3	254	102	220	240	5.8	6.9
W 250 x 25.3**	25.3	257	102	220	240	6.1	8.4
W 250 x 28.4	28.4	260	102	220	240	6.4	10.0
W 250 x 32.7**	32.7	258	146	220	240	6.1	9.1
W 250 x 38.5**	38.5	262	147	220	240	6.6	11.2
W 250 x 44.8	44.8	266	148	220	240	7.6	13.0
W 310 x 21.0	21.0	303	101	272	292	5.1	5.7
W 310 x 23.8	23.8	305	101	272	292	5.6	6.7
W 310 x 28.3**	28.3	309	102	271	291	6.0	8.9
W 310 x 32.7**	32.7	313	102	271	291	6.6	10.8
W 310 x 38.7*	38.7	310	165	271	291	5.8	9.7
W 310 x 44.5*	44.5	313	166	271	291	6.6	11.2
W 310 x 52.0	52.0	317	167	271	291	7.6	13.2
W 360 x 32.9**	32.9	349	127	308	332	5.8	8.5
W 360 x 39.0**	39.0	353	128	308	332	6.5	10.7
W 360 x 44.0*	44.0	352	171	308	332	6.9	9.8
W 360 x 51.0*	51.0	355	171	308	332	7.2	11.6
W 360 x 57.8	57.8	358	172	308	332	7.9	13.1
W 360 x 64.0*	64.0	347	203	288	320	7.7	13.5
W 360 x 72.0*	72.0	350	204	288	320	8.6	15.1
W 360 x 79.0	79.0	354	205	288	320	9.4	16.8
W 410 x 38.8**	38.8	399	140	357	381	6.4	8.8
W 410 x 46.1**	46.1	403	140	357	381	7.0	11.2
W 410 x 53.0*	53.0	403	177	357	381	7.5	10.9
W 410 x 60.0*	60.0	407	178	357	381	7.7	12.8
W 410 x 67.0	67.0	410	179	357	381	8.8	14.4
W 410 x 75.0	75.0	413	180	357	381	9.7	16.0
W 460 x 52.0**	52.0	450	152	404	428	7.6	10.8
W 460 x 60.0**	60.0	455	153	404	428	8.0	13.3
W 460 x 68.0	68.0	459	154	404	428	9.1	15.4
W 460 x 74.0*	74.0	457	190	404	428	9.0	14.5
W 460 x 82.0*	82.0	460	191	404	428	9.9	16.0
W 460 x 89.0	89.0	463	192	404	428	10.5	17.7
W 530 x 66.0**	66.0	525	165	478	502	8.9	11.4
W 530 x 72.0**	72.0	524	207	478	502	9.0	10.9
W 530 x 74.0**	74.0	529	166	478	502	9.7	13.6
W 530 x 82.0*	82.0	528	209	477	501	9.5	13.3
W 530 x 85.0	85.0	535	166	478	502	10.3	16.5
W 530 x 92.0	92.0	533	209	478	502	10.2	15.6
W 610 x 101.0**	101.0	603	228	541	573	10.5	14.9
W 610 x 113.0**	113.0	608	228	541	573	11.2	17.3
W 610 x 125.0*	125.0	612	229	541	573	11.9	19.6
W 610 x 155.0*	155.0	611	324	541	573	12.7	19.0
W 610 x 174.0*	174.0	616	325	541	573	14.0	21.6

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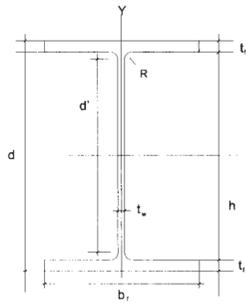
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# AÇOFERA

## O MELHOR CAMINHO O AÇO

## BARRA CHATA

Esquema (e)	largura (l)	pol.	3/8	1/2	5/8	3/4	7/8	1	1.1/4	1.1/2	1.3/4	2	2.1/2	3	3.1/2		
PESOS		mm	9,53	10,50	12,70	15,88	19,05	22,23	25,40	31,75	38,10	44,45	50,80	63,50	76,20	88,90	101,60
Serralheiro	PL	2,0		0,18													4
	Pb			1,10													
1/8	PL	3,18	0,24	0,32	0,40	0,48	0,56	0,63	0,72	0,87	1,11	1,27					
	Pb		1,46	1,95	2,44	2,93	3,42	3,84	4,39	5,31	6,77	7,75					
3/16	PL	4,76		0,48	0,59	0,71	0,83	0,95	1,19	1,42		1,90					
	Pb			2,93	3,60	4,33	5,06	5,80	7,26	8,66		11,59					
1/4	PL	6,35		0,59	0,74	0,95	1,11	1,27	1,58	1,90	2,22	2,53	3,17	3,80		5,07	
	Pb			3,60	4,51	5,80	6,77	7,75	9,64	11,59	13,54	15,43	19,34	23,18		30,93	
5/16	PL	7,94						1,58	1,98	2,38		3,17	3,96	4,75		6,33	
	Pb							9,64	12,08	14,52		19,34	24,16	28,98		38,61	
3/8	PL	9,53						1,90	2,38	2,85		3,80	4,75	5,70		7,60	
	Pb							11,59	14,52	17,39		23,18	28,98	34,77		46,36	
1/2	PL	12,70					2,22	3,17	3,80		5,06	6,33	7,60		10,13		
	Pb						13,54	19,34	23,18		30,87	38,61	46,36		61,79		
5/8	PL	15,88						4,75	5,39	6,33	7,92	9,50	10,84	12,67			
	Pb							28,98	32,88	38,61	48,31	57,95	66,12	77,29			
11/16	PL	17,46													11,94		
	Pb														72,83		
3/4	PL	19,05									7,60	9,50	11,40	13,05	15,19		
	Pb										46,36	57,95	69,54	79,60	92,66		
7/8	PL	22,23															
	Pb																
1	PL	25,40															
	Pb																
1.1/2	PL	38,10															
	Pb																



d = altura do perfil  
 d' = altura livre da alma  
 h = altura interna  
 b<sub>1</sub> = largura da aba do perfil  
 t<sub>1</sub> = espessura da aba  
 t<sub>2</sub> = espessura da alma  
 R = raio de concordância

## BARRAS DE AÇO CARBONO

Ø Pol	Ø mm	●	■	●	Ø Pol	Ø mm	●	■
1/4	6,35	0,25	0,32	0,27	4.1/2	114,30	80,47	102,46
5/16	7,94	0,39	0,49	0,43	4.5/8	117,47	85,01	108,23
3/8	9,53	0,56	0,71	0,62	4.3/4	120,65	89,66	114,16
7/16	11,11	0,76	0,97	0,84	4.7/8	123,82	94,44	120,25
1/2	12,70	0,99	1,22	1,10	5	127,00	99,80	126,5
9/16	14,29	1,26	1,60	1,39	5.1/4	133,35	109,50	139,5
5/8	15,87	1,55	1,98	1,71	5.1/2	139,70	120,20	153,1
3/4	19,05	2,24	2,85	2,46	5.3/4	146,05	131,40	167,2
7/8	22,22	3,04	3,87	3,35	6	152,40	143,20	182,32
1	25,40	3,97	5,06	4,38	6.1/4	158,75	155,38	197,83
1.1/8	28,57	5,03	6,40	5,55	6.1/2	165,10	168,06	213,98
1.1/4	31,75	6,21	7,91	6,85	6.3/4	171,45	181,23	230,75
1.3/8	34,92	7,51	9,57	8,29	7	177,80	194,91	248,16
1.1/2	38,10	8,94	11,39	9,86	7.1/4	184,15	209,08	266,20
1.5/8	41,27	10,49	13,36	11,57	7.1/2	190,50	223,74	284,88
1.3/4	44,45	12,17	15,50	13,42	7.3/4	196,85	238,91	304,19
1.7/8	47,62	13,97	17,79	15,41	8	203,20	254,57	324,13
2	50,80	15,90	20,24	17,53	8.1/4	209,55	270,73	344,70
2.1/16	52,99	16,91	21,52		8.1/2	215,90	287,39	365,91
2.1/8	53,97	17,95	22,85		8.3/4	222,25	304,54	387,75
2.3/16	55,56	19,02	24,21		9	228,60	322,19	410,22
2.1/4	57,15	20,12	25,62		9.1/4	234,95	340,34	433,33
2.5/16	58,74	21,25	27,06		9.1/2	241,30	358,98	457,07
2.3/8	60,32	22,42	28,54		9.3/4	247,65	378,13	481,44
2.7/16	61,91	23,61	30,06		10	254,00	397,77	506,45
2.1/2	63,50	24,84	31,62					
2.9/16	65,09	26,10	33,22		10.1/2	266,70	438,54	558,36
2.5/8	66,67	27,38	34,87					
2.11/16	68,26	28,70	36,55		11	279,40	481,30	612,81
2.3/4	69,85	30,05	38,27					
2.13/16	71,44	31,44	40,02		11.1/2	292,10	526,04	669,78
2.7/8	73,02	32,85	41,82					
2.15/16	74,61	34,29	43,66		12	304,80	572,78	729,29
3	76,20	35,77	45,54		12.1/2	317,50	621,51	791,33
3.1/8	79,38	38,81	49,41		13	330,20	672,22	855,90
3.1/4	82,55	41,88	53,44		13.1/2	342,90	724,93	923,01
3.3/8	85,73	45,27	57,63		14	355,60	779,62	992,64
3.1/2	88,90	48,68	61,98		14.1/2	368,30	836,30	1064,81
3.5/8	92,08	52,22	66,49		15	381,00	894,97	1139,51
3.3/4	95,25	55,88	71,15		15.1/2	393,70	955,63	1216,75
3.7/8	98,43	60,67	75,98		16	406,40	1018,28	1296,51
4	101,60	63,58	80,96		16.1/2	419,10	1082,92	1378,8
4.1/8	104,78	67,62	86,10		17	431,80	1149,54	1462,3
4.1/4	107,95	71,78	91,39		18	457,20	1288,76	1639,4
4.3/8	111,13	76,06	96,85		19	482,60	1435,94	1826,6
					20	508,00	1591,06	2023,9

## CANTONEIRA

Esquema (e)	largura (l)	pol.	1/2	5/8	3/4	7/8	1	1.1/4	1.1/2	1.3/4	2	2.1/2	3	4
PESOS		mm	12,70	15,88	19,05	22,23	25,40	31,75	38,10	44,45	50,80	63,50	76,20	101,60
Serralheiro	PL	2,50		0,57	0,71									
	Pb			3,48	4,33									
1/8	PL	3,18	0,55	0,71	0,87	1,03	1,19	1,53	1,85	2,18	2,46			
	Pb		3,36	4,33	5,31	6,28	7,26	9,33	11,29	13,30	15,01			
3/16	PL	4,76					1,72	2,22	2,70	3,19	3,66	4,64	5,59	
	Pb						10,49	13,54	16,47	19,46	22,33	28,30	34,10	
1/4	PL	6,35					2,22	2,86	3,51	4,16	4,79	6,08	7,35	9,93
	Pb						13,54	17,45	21,41	25,38	29,22	37,09	44,84	60,57
5/16	PL	7,94									5,88	7,49	9,07	12,30
	Pb										35,87	45,69	55,33	75,03
3/8	PL	9,53									6,93	8,86	10,80	14,60
	Pb										42,27	54,05	65,88	89,06
7/16	PL	11,11												16,90
	Pb													103,09
1/2	PL	12,70											14,00	19,10
	Pb													85,40
														116,51

## VIGA "U"

Perfil pol	3x1.1/2	4x1.5/8	6x2	8x2.1/4	10x2.5/8	12x3	15x3.3/8
Alma (mm)	4,32	4,57	5,08	5,59	6,10	7,11	10,20
	6,55	6,27	7,98	7,70	9,63	9,83	10,70
	9,04	8,13	11,10	10,03	13,40	13,00	13,20
Peso (kg/m)			14,20	12,37	17,10	16,10	15,70
			14,70	20,80	19,20	18,20	
	6,11	7,95	12,20	17,40	22,70	30,70	50,40
	7,44	9,30	15,60	22,00	30,50	44,70	67,00
	8,93	10,80	19,40	27,90	44,70	52,10	67,00
				31,60	52,10	59,60	74,40

## VIGA "I"

Perfil pol	3x2.3/8	4x2.5/8	5x3	6x3.3/8
Alma (mm)	4,32	4,83	5,33	5,84
	6,38	6,43	8,81	8,71
	8,86	8,28	12,55	11,81