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Rio Grande do Sul

VENDAS

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BARRA REDONDA GERDAU



Bitolas (d)			Peso Nominal			Bitolas (d)			Peso Nominal			Bitolas (d)			Peso Nominal		
pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m
1/4"	6,35	0,25	1.5/16"	33,34	6,85	2.7/16"	61,91	23,63									
5/16"	7,94	0,39	1.3/8"	34,93	7,52	2.1/2"	63,50	24,86									
3/8"	9,53	0,56	1.7/16"	36,51	8,22	2.9/16"	65,08	26,11									
1/2"	12,70	0,99	1.1/2"	38,10	8,95	2.5/8"	66,68	27,40									
9/16"	14,29	1,26	1.9/16"	39,69	9,71	2.3/4"	69,85	30,08									
5/8"	15,88	1,56	1.5/8"	41,28	10,50	2.13/16"	71,44	31,45									
11/16"	17,46	1,88	1.11/16"	42,86	11,32	2.7/8"	73,03	32,87									
3/4"	19,05	2,24	1.3/4"	44,45	12,16	3"	76,20	35,79									
13/16"	20,64	2,63	1.13/16"	46,40	13,06	3.1/16"	77,79	37,30									
7/8"	22,23	3,05	1.7/8"	47,63	13,98	3.1/8"	79,38	38,84									
15/16"	23,81	3,49	2"	50,80	15,91	3.1/4"	82,55	42,01									
1"	25,40	3,98	2.1/16"	52,39	16,92	3.7/8"	87,31	46,99									
1.1/16"	26,99	4,49	2.1/8"	53,98	17,96	3.1/2"	88,90	48,73									
1.1/8"	28,58	5,04	2.1/4"	57,15	20,14	3.3/4"	95,35	55,94									
1.3/16"	30,16	5,60	2.5/16"	58,74	21,27	4"	101,60	63,64									
1.1/4"	31,75	6,21	2.3/8"	60,33	22,43	4.1/16"	103,19	65,65									

BARRA CHATA GERDAU

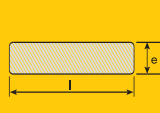


Tabela de Peso Nominal (kg/m)

Largura (l) pol e mm

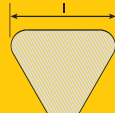
Espessura (e)	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1.1/4"	1.1/2"	1.3/4"	2"	2.1/2"	3"	3.1/2"	4"	4.1/4"	4.1/2"	4.3/4"	6"	
pol.	mm	9,53	12,70	15,88	19,05	22,23	25,40	31,75	38,10	44,45	50,80	63,50	76,20	88,90	101,60	107,95	114,30	120,65	152,40
2,50			0,25	0,31															
1/8"	3,18	0,24	0,32	0,40	0,48	0,55	0,63	0,79	0,95		1,27								
5/32"	3,96		0,39																
3/16"	4,76		0,47	0,59	0,71	0,83	0,95	1,19	1,42		1,90								7,60
1/4"	6,35		0,63	0,79	0,95	1,11	1,27	1,58	1,90		2,53	3,17	3,80		5,06				9,50
3/8"	9,53						1,90	2,38	2,85		3,80	4,75	5,70		7,60			9,03	11,40
1/2"	12,70					2,22	2,53	3,17	3,80		5,06	6,33	7,60		10,13		11,40		15,19
5/8"	15,88							4,75	5,54		6,33	7,92	9,50		12,08		12,67		19,00
11/16"	17,46														11,88				
3/4"	19,05										7,60	9,50	11,40	13,29	15,19				22,79
1"	25,40										10,13	15,19	17,73	20,26					30,39
1.1/4"	31,75													25,32					
1.1/2"	38,10													30,39	32,29				
2"	50,80																		

BARRA QUADRADA GERDAU



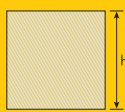
Bitolas			Peso Nominal			Bitolas			Peso Nominal			Bitolas			Peso Nominal			
pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m	pol.	mm	kg/m	
1/4"	6,35	0,31	3/4"	19,05	2,85	1.1/2"	38,10	11,15										
5/16"	7,94	0,50	7/8"	22,23	3,88	1.3/4"	44,45	15,19										
3/8"	9,53	0,71	1"	25,40	5,06	2"	50,80	20,26										
1/2"	12,70	1,27	1.1/8"	28,58	6,41													
5/8"	15,88	1,98	1.1/4"	31,75	7,91													

TRIBAR GERDAU



Bitola (l)	Peso Nominal
mm	kg/m
10	0,51

BARRA QUADRADA TREFILADA GERDAU

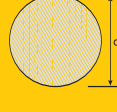


Bitola	Tolerância	Peso Nominal	Bitola	Tolerância	Peso Nominal	Bitola	Tolerância	Peso Nominal
h (mm)	mm	kg/m	h (mm)	mm	kg/m	h (mm)	mm	kg/m
4,76	+0/-0,08	0,180	14,28	+0/-0,11	1,600	29,85	+0/-0,13	6,215
6,35	+0/-0,09	0,320	15,88	+0/-0,11	1,980	31,75	+0/-0,16	7,910
* 7,94	+0/-0,09	0,488	19,05	+0/-0,13	2,850	38,10	+0/-0,16	11,400
* 9,53	+0/-0,09	0,706	20,00	+0/-0,13	3,140	44,45	+0/-0,16	15,510
10,00	+0/-0,09	0,790	22,22	+0/-0,13	3,880	50,80	+0/-0,19	20,260
12,70	+0/-0,11	1,270	25,40	+0/-0,13	5,060			

Obtidas por trefilação a frio de barras laminadas e de fio-máquina, são produzidas segundo as especificações da norma NBR 8580/89 e fornecidas na tolerância h11.

OBS.: *Estas bitolas são produzidas com cantos arredondados.

BARRA REDONDA TREFILADA GERDAU



Bitola	Tolerância	Peso Nominal	Bitola	Tolerância	Peso Nominal	Bitola	Tolerância	Peso Nominal
d (mm)	mm	kg/m	d (mm)	mm	kg/m	d (mm)	mm	kg/m
3,97	+0/-0,08	0,097	15,88	+0/-0,11	1,555	31,75	+0/-0,16	6,215
4,76	+0/-0,08	0,140	16,90	+0/-0,11	1,578	32,30	+0/-0,16	6,332
5,00	+0/-0,08	0,154	17,00	+0/-0,11	1,782	35,92	+0/-0,16	7,518
5,50	+0/-0,08	0,222	17,20	+0/-0,11	1,824	35,00	+0/-0,16	7,553
6,35	+0/-0,09	0,249	17,46	+0/-0,11	1,880	38,10	+0/-0,16	7,990
6,90	+0/-0,09	0,294	17,90	+0/-0,11	1,975	38,10	+0/-0,16	8,950
7,00	+0/-0,09	0,302	18,00	+0/-0,11	1,998	39,00	+0/-0,16	9,378
7,94	+0/-0,09	0,389	19,05	+0/-0,13	2,237	40,00	+0/-0,16	9,865
8,00	+0/-0,09	0,395	20,00	+0/-0,13	2,466	41,28	+0/-0,16	10,506
8,20	+0/-0,09	0,415	20,20	+0/-0,13	2,516	44,45	+0/-0,16	12,182
8,40	+0/-0,09	0,435	20,64	+0/-0,13	2,627	45,00	+0/-0,16	12,485
8,50	+0/-0,09	0,445	20,94	+0/-0,13	2,703	46,00	+0/-0,16	13,046
9,00	+0/-0,09	0,499	21,00	+0/-0,13	2,719	47,62	+0/-0,16	13,981
9,52	+0/-0,09	0,559	21,05	+0/-0,13	2,732	50,00	+0/-0,16	15,413
9,80	+0/-0,09	0,592	22,00	+0/-0,13	2,984	50,80	+0/-0,19	15,911
10,00	+0/-0,11	0,617	22,22	+0/-0,13	3,044	53,98	+0/-0,19	17,945
10,50	+0/-0,11	0,680	23,15	+0/-0,13	3,304	55,00	+0/-0,19	18,650
11,00	+0/-0,11	0,746	23,81	+0/-0,13	3,495	57,15	+0/-0,19	20,137
11,11	+0/-0,11	0,761	25,00	+0/-0,13	3,853	60,00	+0/-0,19	22,195
11,30	+0/-0,11	0,787	25,20	+0/-0,13	3,915	60,32	+0/-0,19	22,433
11,84	+0/-0,11	0,864	25,30	+0/-0,13	3,946	63,50	+0/-0,19	24,860
12,00	+0/-0,11	0,888	25,40	+0/-0,13	3,978	65,00	+0/-0,19	26,049
12,70	+0/-0,11	0,994	26,00	+0/-0,13	4,168	66,68	+0/-0,19	27,413
13,30	+0/-0,11	1,091	26,99	+0/-0,13	4,491	76,20	+0/-0,22	35,799
14,00	+0/-0,11	1,208	28,00	+0/-0,13	4,834	80,00	+0/-0,19	39,558
14,28	+0/-0,11	1,257	28,58	+0/-0,13	5,036	85,00	+0/-0,22	44,545
14,35	+0/-0,11	1,270	30,00	+0/-0,13	5,549	90,00	+0/-0,22	49,940
14,50	+0/-0,11	1,286	30,16	+0/-0,16	5,608	95,00	+0/-0,22	55,642
15,00	+0/-0,11	1,397	30,30	+0/-0,16	5,660	100,00	+0/-0,22	61,654

Obtidas por trefilação a frio de barras laminadas e de fio-máquina, são produzidas segundo as especificações da norma NBR 8580/89 e fornecidas na tolerância h11.

OBS.: *Estas bitolas são produzidas com cantos arredondados.

BARRA SEXTAVADA TREFILADA GERDAU



Bitola	Tolerância	Peso Nominal	Bitola	Tolerância	Peso Nominal	Bitola	Tolerância	Peso Nominal
h (mm)	mm	kg/m	h (mm)	mm	kg/m	h (mm)	mm	kg/m
6,35	+0/-0,09	0,270	20,64	+0/-0,13	2,900	33,34	+0/-0,16	7,560
7,94	+0/-0,09	0,420	22,22	+0/-0,13	3,360	36,92	+0/-0,16	8,290
9,53	+0/-0,09	0,620	23,81	+0/-0,13	3,850	38,10	+0/-0,16	8,810
11,11	+0/-0,11	0,840	24,00	+0/-0,13	3,920	38,10	+0/-0,16	9,870
* 12,70	+0/-0,11	1,086	25,40	+0/-0,13	4,390	41,28	+0/-0,16	11,580
* 14,28	+0/-0,11	1,378	26,99	+0/-0,13	4,950	44,45	+0/-0,16	12,490
* 15,88	+0/-0,11	1,704	28,58	+0/-0,13	5,550	46,86	+0/-0,16	13,430
* 17,46	+0/-0,11	2,062	30,00	+0/-0,13	6,120	50,80	+0/-0,19	17,540
19,05	+0/-0,13	2,470	31,75	+0/-0,16	6,850			

Obtidas por trefilação a frio de barras laminadas e de fio-máquina, são produzidas segundo as especificações da norma NBR 8580/89 e fornecidas na tolerância h11.

OBS.: *Estas bitolas são produzidas com cantos arredondados.



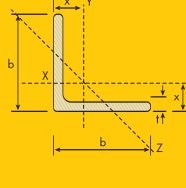
BARRAS E PERFIS



Todos os pesos e dimensões constantes destas tabelas são nominais, podendo ter diferenças de acordo com as tolerâncias estabelecidas nas especificações ou em norma.



CANTONEIRA DE ABAS IGUAIS GERDAU

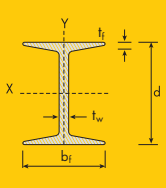


Cantoneira em Polegadas										
b	Peso Nominal	t	Área	$I_x=I_y$	$W_x=W_y$	$r_x=r_y$	r_z mín.	x		
pol	mm	pol	mm	cm ²	cm ⁴	cm ³	cm	cm	cm	
5/8"	15.880	0.57	2.50							
3/4"	19.050	0.71	2.50							
1/2"	12.700	0.55	1/8"	3.18	0.70	0.10	0.11	0.37	0.25	0.43
5/8"	15.880	0.71	1/8"	3.18	0.90	0.20	0.19	0.47	0.32	0.51
3/4"	19.050	0.87	1/8"	3.18	1.11	0.36	0.27	0.57	0.38	0.59
7/8"	22.200	1.04	1/8"	3.18	1.32	0.58	0.38	0.66	0.46	0.66
1"	25.400	1.19	1/8"	3.18	1.48	0.83	0.49	0.79	0.48	0.76
		1.73	3/16"	4.76	2.19	1.25	0.66	0.76	0.48	0.81
		2.22	1/4"	6.35	2.84	1.66	0.98	0.76	0.48	0.86
1.1/4"	31.750	1.50	1/8"	3.18	1.93	1.67	0.82	0.97	0.64	0.89
		2.20	3/16"	4.76	2.77	2.50	1.15	0.97	0.61	0.97
		2.86	1/4"	6.35	3.62	3.33	1.47	0.94	0.61	1.02
1.1/2"	38.100	1.83	1/4"	3.18	2.32	3.33	1.15	1.17	0.76	1.07
		2.68	3/16"	4.76	3.42	4.58	1.64	1.17	0.74	1.12
		3.48	1/4"	6.35	4.45	5.83	2.13	1.15	0.74	1.19
1.3/4"	44.450	2.14	1/8"	3.18	2.71	5.41	1.64	1.40	0.89	1.22
		3.15	3/16"	4.76	4.00	7.50	2.30	1.37	0.89	1.30
		4.12	1/4"	6.35	5.22	9.57	3.13	1.35	0.86	1.35
2"	50.800	2.46	1/8"	3.18	3.10	7.91	2.13	1.60	1.02	1.40
		3.63	3/16"	4.76	4.58	11.70	3.13	1.58	1.02	1.45
		4.74	1/4"	6.35	6.06	14.60	4.10	1.55	0.99	1.50
		5.83	5/16"	7.94	7.42	17.50	4.91	1.53	0.99	1.55
		6.99	3/8"	9.52	8.76	20.00	5.73	1.50	0.99	1.63
2.1/2"	63.500	4.57	3/16"	4.76	5.80	23.00	4.91	1.98	1.24	1.75
		6.10	1/4"	6.35	7.67	29.00	6.40	1.96	1.24	1.83
		7.44	5/16"	7.94	9.48	35.00	7.87	1.93	1.24	1.88
		8.78	3/8"	9.52	11.16	41.00	9.35	1.91	1.22	1.93
		5.52	3/16"	4.76	7.03	40.00	7.21	2.39	1.50	2.08
3"	76.200	7.29	1/4"	6.35	9.29	50.00	9.50	2.36	1.50	2.13
		9.07	5/16"	7.94	11.48	62.00	11.60	2.34	1.50	2.21
		10.71	3/8"	9.52	13.61	75.00	13.60	2.31	1.47	2.26
		14.00	1/2"	12.70	17.74	91.00	18.00	2.29	1.47	2.36
3.1/2"	88.900	8.56	1/4"	6.35	10.90	83.70	13.00	2.77	1.76	2.46
		10.59	5/16"	7.94	13.50	102.00	16.00	2.75	1.75	2.52
		12.58	3/8"	9.52	16.00	121.00	19.20	2.75	1.75	2.58
4"	101.600	9.81	1/4"	6.35	12.51	125.00	16.40	3.17	2.00	2.77
		12.19	5/16"	7.94	15.48	154.00	21.30	3.15	2.00	2.84
		14.57	3/8"	9.52	18.45	183.00	24.60	3.12	2.00	2.90
		16.80	7/16"	11.11	21.35	208.00	29.50	3.12	1.98	2.95
		19.03	1/2"	12.70	24.19	233.00	32.80	3.10	1.98	3.00
5"	127.000	12.34	1/4"	6.35	15.73	251.63	27.09	4.00	2.53	3.41
		15.31	5/16"	7.94	19.50	308.00	33.40	3.97	2.53	3.47
		18.30	3/8"	9.52	23.29	342.00	39.50	3.94	2.51	3.53
		24.10	1/2"	12.70	30.64	470.00	52.50	3.91	2.49	3.63
		29.80	5/8"	15.88	37.80	566.00	64.00	3.86	2.46	3.76
6"	152.400	23.52	7/16"	11.11	26.96	416.68	45.71	3.93	2.50	3.58
		22.20	3/8"	9.52	28.10	441.00	57.40	4.78	3.02	4.17
		29.20	1/2"	12.70	37.09	628.00	75.40	4.72	3.00	4.27
		36.00	5/8"	15.88	45.86	1007.00	93.50	4.67	2.97	4.39
		42.70	3/4"	19.05	54.64	1173.00	109.90	4.65	2.97	4.52
8"	203.200	48.70	5/8"	15.88	62.90	2472.40	168.90	6.31	4.01	5.66
		57.90	3/4"	19.05	73.81	2901.10	199.90	6.27	3.99	5.79

OBS.: As barras são fornecidas com tolerância de -0,0 m, +0,1 m.



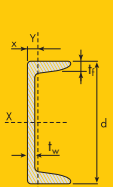
PERFIL I GERDAU



Bitola	Peso	ALMA		MESA		Área	I	EIXO X			EIXO Y				
		Nominal	d	t_w	b_f			t_f	W	r	I	W	r	t_f	
pol.	kg/m	mm	mm	mm	mm	mm	cm ²	cm ⁴	cm ³	cm	cm	cm ²	cm ³	cm	cm
3"	8.48	76.20	4.32	59.18	6.60	6.60	10.80	105.10	27.60	3.12	18.90	6.40	1.33	1.45	
	9.68	76.20	6.38	61.24	6.60	6.60	12.32	115.00	30.18	3.06	45.60	11.48	1.92	1.98	
4"	11.46	101.60	4.90	67.60	7.44	7.44	14.50	252.00	49.70	4.17	31.70	9.40	1.48	1.68	
	12.65	101.60	6.43	69.20	7.44	7.44	16.11	266.00	52.40	4.06	34.30	9.90	1.46	1.83	
5"	14.14	101.60	8.20	71.02	7.44	7.44	18.00	283.00	55.60	3.96	37.60	10.60	1.45	1.74	
	18.88	127.00	5.44	76.30	8.28	8.28	18.80	511.00	80.40	5.21	50.20	13.20	1.63	1.88	
6"	20.50	127.00	8.81	79.70	8.28	8.28	23.24	570.00	89.80	5.94	58.60	14.70	1.59	1.92	
	25.67	152.40	11.81	90.55	9.12	9.12	32.70	1095.00	143.70	5.79	96.20	19.40	1.72	2.15	

OBS.: As barras são fornecidas com tolerância de -0,0 m, +0,1 m.

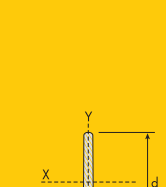
PERFIL U GERDAU



Bitola	Peso	ALMA		ABA		Área	I	EIXO X			EIXO Y				
		Nominal	d	t_w	b_f			t_f	W	r	I	W	r	x	
pol.	kg/m	mm	mm	mm	mm	mm	cm ²	cm ⁴	cm ³	cm	cm	cm ²	cm ³	cm	cm
3"	4.10	76.20	4.32	35.81	6.93	7.78	68.90	18.10	2.98	8.20	3.32	1.03	1.11		
	7.44	76.20	6.55	38.05	6.93	9.48	77.20	20.30	2.85	10.30	3.82	1.04	1.11		
4"	8.04	101.60	4.67	40.23	7.52	10.10	159.50	31.40	3.97	13.10	4.61	1.14	1.16		
	9.30	101.60	6.27	41.83	7.52	11.90	174.40	34.30	3.84	15.50	5.10	1.14	1.15		
6"	12.20	152.40	5.08	48.77	8.71	15.50	546.00	71.70	5.94	28.80	8.16	1.36	1.30		
	15.60	152.40	7.98	51.66	8.71	19.90	632.00	82.90	5.63	36.00	9.24	1.34	1.27		
8"	17.10	203.20	5.59	67.40	9.50	21.68	1344.30	132.70	7.87	54.10	12.94	1.42	1.42		
	20.50	203.20	7.70	59.51	9.50	25.93	1490.00	147.50	7.59	62.40	14.09	1.42	1.42		
10"	22.77	254.00	6.10	66.04	11.10	29.00	2800.00	221.00	9.84	95.00	19.00	1.81	1.61		
	29.76	254.00	9.63	69.57	11.10	37.90	3290.00	259.00	9.31	117.00	21.60	1.76	1.54		

OBS.: As barras são fornecidas com tolerância de -0,0 m, +0,1 m.

PERFIL T GERDAU

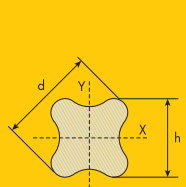


Bitola	Mesa	Espessura	Peso	Área	Eixo X			Eixo Y			
					I	W	r	I	W	r	x
d=b_f	d=b_f	t_f=t_w	Nominal	cm ²	cm ⁴	cm ³	cm	cm ²	cm ³	cm	cm
3/4" serr.		2.50	0.69								
5/8 x 1/8"	15.88	3.18	0.71	0.90	0.20	0.19	0.47	0.11	0.14	0.35	0.51
3/4 x 1/8"	19.05	3.18	0.86	1.13	0.36	0.27	0.57	0.19	0.20	0.41	0.59
7/8 x 1/8"	22.22	3.18	0.99	1.34	0.59	0.38	0.67	0.33	0.27	0.48	0.67
1 x 1/8"	25.40	3.18	1.18	1.54	0.90	0.50	0.77	0.44	0.35	0.54	0.75
1.1/4 x 1/8"	31.75	3.18	1.50	1.92	1.84	0.81	0.98	0.86	0.54	0.67	0.91
1.1/2 x 1/8"	38.10	3.18	1.82	2.32	3.24	1.18	1.18	1.47	0.77	0.80	1.07
1.1/4 x 3/16"	31.75	4.76	2.16	2.79	2.56	1.16	0.96	1.29	0.82	0.68	0.97
1.1/2 x 3/16"	38.10	4.76	2.65	3.40	4.56	1.70	1.16	2.22	1.17	0.81	1.13
2 x 3/16"	50.80	6.35	3.62	4.61	11.33	3.12	1.57	5.24	2.06	1.07	1.45
2 x 1/4"	50.80	6.35	4.74	6.05	14.47	4.04	1.55	7.03	2.77	1.08	1.50

OBS.: As barras são fornecidas com tolerância de -0,0 m, +0,1 m.



PERFIL ESTRELA GERDAU



Bitola	Peso Nominal	
h (mm)	d (mm)	kg/m
12.1	15.3	0.909
10.5	13.2	0.694