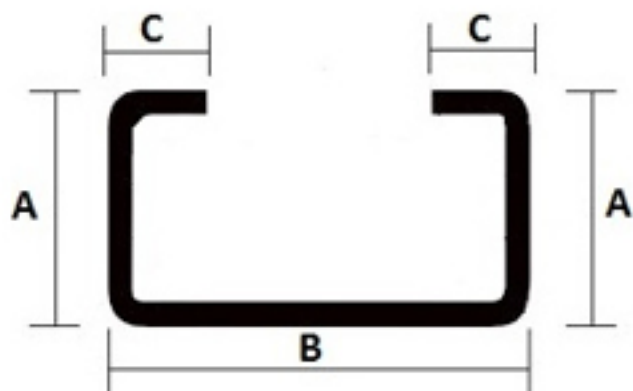


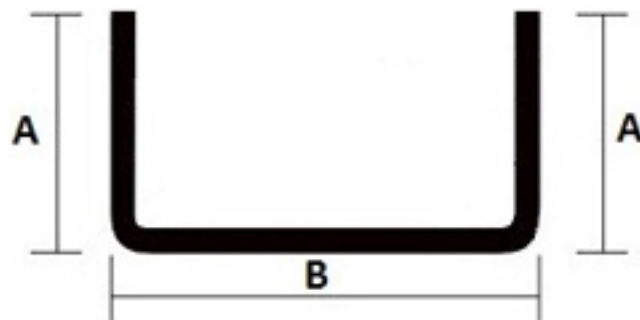
Perfil Enrijecido

Dimensões CxAxB (mm)	Barras por Amarrado	Espessura					
		2,00	2,25	2,65	3,00	3,35	3,75
		Peso Kg/m					
10x25x50	70	1,63	1,80				
15x40x75	56	2,65	2,95	3,41	3,79		
15x40x100	56	3,05	3,39	3,93	4,38	4,82	
17x50x100	48	3,42	3,82	4,43	4,95	5,45	
17x50x127	36	3,85	4,29	4,99	5,58	6,16	6,80
20x60x150	24/30	4,62	5,16	6,01	6,74	7,45	8,24
25x75x200	20	6,03	6,75	7,88	8,85	10,89	10,89

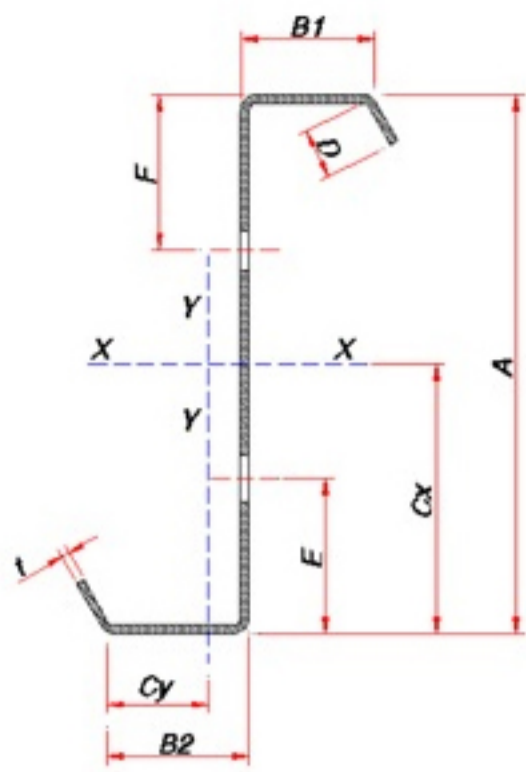


Perfil Simples

Dimensões CxAxB (mm)	Barras por Amarrado	Espessura							
		2,00	2,25	2,65	3,00	3,35	3,75	4,25	4,75
		Peso Kg/m							
25x50x25	70	1,44	1,61	1,86	2,07				
30x68x30	64	1,88	2,10	2,44	2,73				
40x75x40	56	2,31	2,58	3,00	3,37	3,72	4,12	4,60	5,07
30x92x30	56	2,26	2,53	2,94	3,30				
40x100x40	56	2,70	3,02	3,52	3,96	4,38	4,86	5,44	6,00
50x100x50	48	3,01	3,37	3,94	4,43	4,91	5,45	6,11	6,75
50x127x50	36	3,44	3,85	4,50	5,06	5,62	6,24	7,01	7,76
50x150x50	36	3,80	4,26	4,98	5,60	6,22	6,92	7,77	8,61
50x200x50	24	4,58	5,14	6,02	6,78	7,54	8,39	9,44	10,48
75x200x75	20	5,37	6,02	7,06	7,96	8,85	9,86	11,11	12,34



SÉRIE - PERFIL "Z" | CIVIL 300

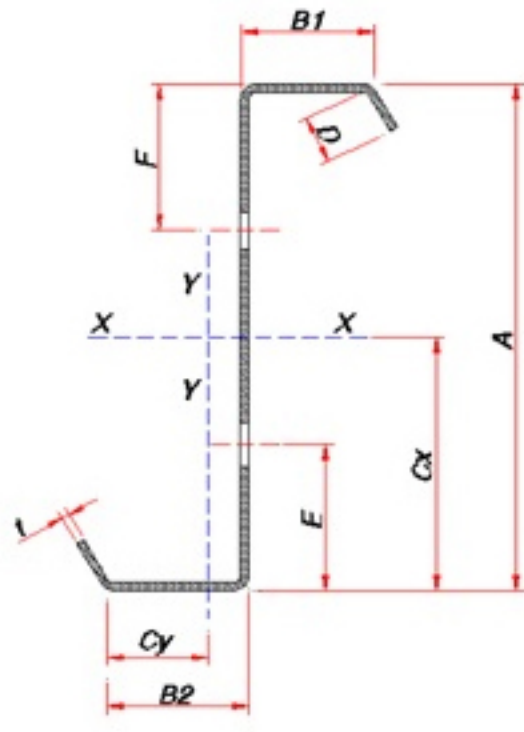


	ESP. mm	A	B1	B2	D1	D2	E	F	medida entre furos
SÉRIE 100	1,80 2,25 2,65	100	56	50	20	20	30	34	36
SÉRIE 120	1,80 2,25 2,65	120	56	50	20	20	30	34	56
SÉRIE 150	1,80 2,25 2,65	150	66	60	20	20	45	49	56
SÉRIE 180	1,80 2,25 2,65 3,00	180	76	70	20	20	45	49	86
SÉRIE 200	1,80 2,25 2,65 3,00	200	76	70	20	20	40	44	116
SÉRIE 220	1,80 2,25 2,65 3,00 3,35	220	86	80	20	20	50	54	116
SÉRIE 250	1,80 2,25 2,65 3,00 3,35	250	86	80	20	20	36	39	175
SÉRIE 270	1,80 2,25 2,65 3,00 3,35	270	86	80	20	20	41	44	185
SÉRIE 300	1,80 2,25 2,65 3,00 3,35	300	86	80	20	20	51	54	195
SÉRIE 350	1,80 2,25 2,65 3,00 3,35	350	86	80	20	20	56	59	235

DADOS TÉCNICOS - PERFIL "Z"

NOME	Peso (kg/m)	Área (cm ²)	Altura (mm)	Esp. (mm)	Ix (cm ⁴)	Iy (cm ⁴)	Wx* (cm ³)	Wx** (cm ³)	Ry (cm)
Z100#1,20	2,22756	2,83766	100	1,20	46,3832	26,3337	9,05404	9,51046	3,04632
Z100#1,50	2,77141	3,53046	100	1,50	57,3219	32,4619	11,1891	11,7535	3,03229
Z100#1,65	3,04138	3,87437	100	1,65	62,6947	35,4595	12,2378	12,8552	3,02528
Z100#1,80	3,31005	4,21662	100	1,80	68,0036	38,4133	13,2741	13,9439	3,01827
Z100#1,90	3,48843	4,44386	100	1,90	71,5077	40,3583	13,958	14,6624	3,0136
Z100#2,00	3,66624	4,67037	100	2,00	74,9836	42,284	14,6364	15,3752	3,00893
Z100#2,25	4,10822	5,2334	100	2,25	83,5511	47,0148	16,3086	17,1321	2,99726
Z100#2,65	4,80785	6,12466	100	2,65	96,8996	54,3388	18,914	19,8694	2,97861
Z100#3,00	5,41243	6,89481	100	3,00	108,221	60,5041	21,1237	22,1912	2,96231
Z100#3,35	6,0099	7,65592	100	3,35	119,213	66,4467	23,269	24,4454	2,94603
Z120#1,20	2,41596	3,07766	120	1,20	70,6476	26,3409	11,5122	12,00492	2,92553
Z120#1,50	3,00691	3,83046	120	1,50	87,4178	32,4709	14,2447	14,9097	2,91153
Z120#1,65	3,30043	4,20437	120	1,65	95,6716	35,4694	15,5895	16,3176	2,90453
Z120#1,80	3,59265	4,57662	120	1,80	103,838	38,4241	16,9202	17,7107	2,89754
Z120#1,90	3,78673	4,82386	120	1,90	109,235	40,3697	17,7994	18,6312	2,89288
Z120#2,00	3,98024	5,07037	120	2,00	114,593	42,296	18,6723	19,5452	2,88822
Z120#2,25	4,46147	5,6834	120	2,25	127,821	47,0282	20,8275	21,8017	2,87657
Z120#2,65	5,2239	6,65466	120	2,65	148,494	54,3547	24,1955	25,3285	2,85796
Z120#3,00	5,88343	7,49481	120	3,00	166,092	60,5221	27,0624	28,3307	2,84169
Z120#3,35	6,53585	8,32592	120	3,35	183,237	66,4667	29,8554	31,2558	2,82544
Z150#1,20	2,88696	3,67766	150	1,20	132,0024	39,8726	17,272	17,9473	3,29269
Z150#1,50	3,59566	4,58046	150	1,50	163,657	49,2372	21,4101	22,2479	3,27863
Z150#1,65	3,94806	5,02937	150	1,65	179,271	53,8311	23,4526	24,3707	3,27116
Z150#1,80	4,29915	5,47662	150	1,80	194,75	58,3666	25,4774	26,4752	3,26457
Z150#1,90	4,53248	5,77386	150	1,90	204,995	61,358	26,8175	27,868	3,25988
Z150#2,00	4,76524	6,07037	150	2,00	215,181	64,3236	28,1499	29,2529	3,2552
Z150#2,25	5,3446	6,8084	150	2,25	240,386	71,6261	31,4467	32,6798	3,24349
Z150#2,65	6,26403	7,97966	150	2,65	279,949	82,9819	36,6216	38,0591	3,22478
Z150#3,00	7,06093	8,99481	150	3,00	313,802	92,5917	41,0494	42,6621	3,20841
Z150#3,35	7,85073	10,0009	150	3,35	346,948	101,902	45,3846	47,1692	3,19206
Z180#1,20	3,35796	4,27766	180	1,20	220,663	57,2983	24,1192	24,9305	3,65989
Z180#1,50	4,18441	5,33046	180	1,50	273,874	70,8508	29,9348	30,9427	3,64577
Z180#1,65	4,59568	5,85437	180	1,65	300,189	77,5136	32,811	33,916	3,63872
Z180#1,80	5,00565	6,37662	180	1,80	326,312	84,1013	35,666	36,8677	3,63167
Z180#1,90	5,27823	6,72386	180	1,90	343,621	88,4516	37,5577	38,8235	3,62697
Z180#2,00	5,55024	7,07037	180	2,00	360,845	92,7689	39,4401	40,7697	3,62226
Z180#2,25	6,22772	7,9334	180	2,25	403,534	103,418	44,1055	45,5933	3,61052
Z180#2,65	7,30415	9,30466	180	2,65	470,74	120,035	51,4502	53,1876	3,59172
Z180#3,00	8,23843	10,4948	180	3,00	528,447	134,152	57,7566	59,7086	3,57529
Z180#3,35	9,1656	11,6759	180	3,35	585,138	147,882	63,9517	66,115	3,55887
Z200#1,50	4,41991	5,63046	200	1,50	349,521	70,8574	34,4117	35,5098	3,54749
Z200#1,65	4,85473	6,18437	200	1,65	383,19	77,5209	37,7263	38,9306	3,54048
Z200#1,80	5,28825	6,73662	200	1,80	416,628	84,1093	41,0181	42,3281	3,53347
Z200#1,90	5,57653	7,10386	200	1,90	438,792	88,4601	43,2	44,5801	3,52879
Z200#2,00	5,86424	7,47037	200	2,00	460,854	92,7778	45,3719	46,8218	3,52412
Z200#2,25	6,58097	8,3834	200	2,25	515,565	103,428	50,7577	52,3809	3,51245
Z200#2,65	7,7202	9,83466	200	2,65	601,787	120,046	59,2453	61,142	3,49377
Z200#3,00	8,70943	11,0948	200	3,00	675,913	134,165	66,5419	68,6742	3,47745
Z200#3,35	9,69155	12,3459	200	3,35	748,816	147,897	73,718	76,0826	3,46113
Z220#1,50	4,89091	6,23046	220	1,50	472,244	97,9149	42,3295	43,5503	3,96428
Z220#1,65	5,37283	6,84437	220	1,65	517,901	107,18	46,4218	47,761	3,95723
Z220#1,80	5,85345	7,45662	220	1,80	563,276	116,352	50,4886	51,9458	3,95018
Z220#1,90	6,17313	7,86386	220	1,90	593,369	122,415	53,1859	54,7213	3,94547
Z220#2,00	6,49224	8,27037	220	2,00	623,338	128,436	55,8719	57,4853	3,94077
Z220#2,25	7,28747	9,2834	220	2,25	697,716	143,31	62,5381	64,3451	3,92903
Z220#2,65	8,5523	10,8947	220	2,65	815,111	166,579	73,0595	75,1726	3,91024
Z220#3,00	9,65143	12,2948	220	3,00	916,216	186,41	82,1206	84,4979	3,8938
Z220#3,35	10,7435	13,6859	220	3,35	1015,82	205,754	91,0473	93,6853	3,87737
Z250#1,50	5,24416	6,68046	250	1,50	635,54	97,9238	50,1767	51,5276	3,82861
Z250#1,65	5,76141	7,33937	250	1,65	697,14	107,19	55,0398	56,5223	3,82163
Z250#1,80	6,27735	7,99662	250	1,80	758,388	116,363	59,8751	61,4884	3,81464
Z250#1,90	6,62058	8,43386	250	1,90	799,025	122,426	63,0831	64,7834	3,80999
Z250#2,00	6,96324	8,87037	250	2,00	839,506	128,448	66,2789	68,0658	3,80534
Z250#2,25	7,81735	9,9584	250	2,25	940,029	143,324	74,2145	76,2168	3,79371
Z250#2,65	9,17638	11,6897	250	2,65	1098,85	166,594	86,7524	89,0955	3,77511
Z250#3,00	10,3579	13,1948	250	3,00	1235,81	186,428	97,5634	100,201	3,75884
Z250#3,35	11,5324	14,6909	250	3,35	1370,88	205,774	108,226	111,154	3,74258
Z300#1,50	5,83291	7,43046	300	1,50	975,502	97,9362	64,2642	65,8214	3,63048
Z300#1,65	6,40903	8,16437	300	1,65	1070,36	107,204	70,5131	72,2224	3,62363
Z300#1,80	6,98385	8,89662	300	1,80	1164,74	116,378	76,7299	78,5908	3,61678
Z300#1,90	7,36633	9,38386	300	1,90	1227,39	122,442	80,8568	82,8183	3,61222
Z300#2,00	7,74824	9,87037	300	2,00	1289,82	128,465	84,9694	87,0313	3,60766
Z300#2,25	8,70047	11,0834	300	2,25	1444,96	143,342	95,1891	97,5006	3,59625
Z300#2,65	10,2165	13,0147	300	2,65	1690,42	166,616	111,357	114,064	3,57802
Z300#3,00	11,5354	14,6948	300	3,00	1902,4	186,452	125,32	128,37	3,56207
Z300#3,35	12,8473	16,3659	300	3,35	2111,79	205,802	139,112	142,501	3,54612
Z350#1,50	6,42166	8,18046	350	1,50	1408,34	97,9464	79,6097	81,3629	3,46023
Z350#1,65	7,05666	8,98937	350	1,65	1545,64	107,215	87,3702	89,2951	3,45353
Z350#1,80	7,69035	9,79662	350	1,80	1682,29	116,39	95,0945	97,1905	3,44683
Z350#1,90	8,11208	10,3339	350	1,90	1773,04	122,455	100,224	102,434	3,44236
Z350#2,00	8,53324	10,8704	350	2,00	1863,51	128,478	105,337	107,661	3,4379
Z350#2,25	9,5836	12,2084	350	2,25	2088,44	143,357	118,051	120,656	3,42673
Z350#2,65	11,2566	14,3397	350	2,65	2444,66	166,634	138,185	141,238	3,40888
Z350#3,00	12,7129	16,1948	350	3,00	2752,68	186,472	155,594	159,035	3,39328
Z350#3,35	14,1621	18,0409	350	3,35	3057,27	205,824	172,809	176,635	3,37768

SÉRIE - PERFIL "Z" | ZAR 345

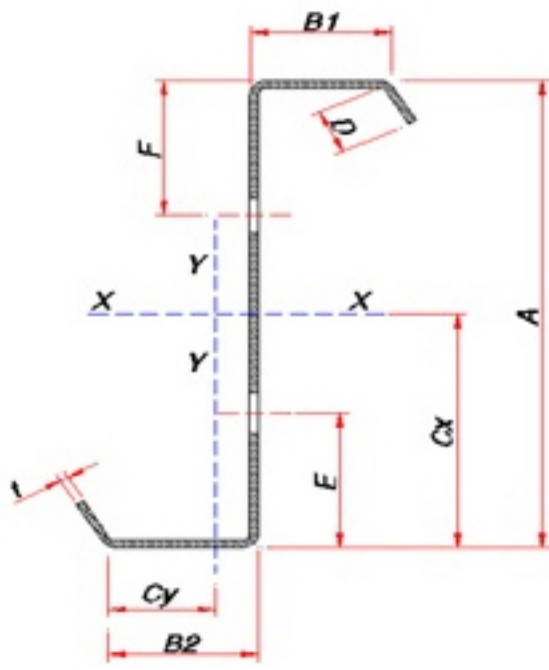


	ESP. mm	A	B1	B2	D1	D2	E	F	medida entre furos
SÉRIE 100	1,20	100	56	50	20	20	30	34	36
	1,50								
	1,65								
	1,90								
	2,25								
SÉRIE 120	1,20	120	56	50	20	20	30	34	56
	1,50								
	1,65								
	1,90								
	2,25								
SÉRIE 150	1,20	150	66	60	20	20	45	49	56
	1,50								
	1,65								
	1,90								
	2,25								
SÉRIE 180	1,20	180	76	70	20	20	45	49	86
	1,50								
	1,65								
	1,90								
	2,25								
SÉRIE 200	1,50	200	76	70	20	20	40	44	116
	1,65								
	1,90								
	2,25								
	2,65								
SÉRIE 220	1,50	220	86	80	20	20	50	54	116
	1,65								
	1,90								
	2,25								
	2,65								
SÉRIE 250	1,65	250	86	80	20	20	36	39	175
	1,90								
	2,25								
	2,65								
	2,65								
SÉRIE 270	1,65	270	86	80	20	20	41	44	185
	1,90								
	2,25								
	2,65								
	2,65								
SÉRIE 300	1,65	300	86	80	20	20	51	54	195
	1,90								
	2,25								
	2,65								
	2,65								
SÉRIE 350	1,90	350	86	80	20	20	56	59	235
	2,25								
	2,65								

DADOS TÉCNICOS - PERFIL "Z"

NOME	Peso (kg/m)	Área (cm²)	Altura (mm)	Esp. (mm)	Ix (cm4)	Iy (cm4)	Wx* (cm³)	Wx** (cm³)	Ry (cm)
Z100#1,20	2,22756	2,83766	100	1,20	46,3832	26,3337	9,05404	9,51046	3,04632
Z100#1,50	2,77141	3,53046	100	1,50	57,3219	32,4619	11,1891	11,7535	3,03229
Z100#1,65	3,04138	3,87437	100	1,65	62,6947	35,4595	12,2378	12,8552	3,02528
Z100#1,80	3,31005	4,21662	100	1,80	68,0036	38,4133	13,2741	13,9439	3,01827
Z100#1,90	3,48843	4,44386	100	1,90	71,5077	40,3583	13,958	14,6624	3,0136
Z100#2,00	3,66624	4,67037	100	2,00	74,9836	42,284	14,6364	15,3752	3,00893
Z100#2,25	4,10822	5,2334	100	2,25	83,5511	47,0148	16,3086	17,1321	2,99726
Z100#2,65	4,80785	6,12466	100	2,65	96,8996	54,3388	18,914	19,8694	2,97861
Z100#3,00	5,41243	6,89481	100	3,00	108,221	60,5041	21,1237	22,1912	2,96231
Z100#3,35	6,0099	7,65592	100	3,35	119,213	66,4467	23,269	24,4454	2,94603
Z120#1,20	2,41596	3,07766	120	1,20	70,6476	26,3409	11,5122	12,00492	2,92553
Z120#1,50	3,00691	3,83046	120	1,50	87,4178	32,4709	14,2447	14,9097	2,91153
Z120#1,65	3,30043	4,20437	120	1,65	95,6716	35,4694	15,5895	16,3176	2,90453
Z120#1,80	3,59265	4,57662	120	1,80	103,838	38,4241	16,9202	17,7107	2,89754
Z120#1,90	3,78673	4,82386	120	1,90	109,235	40,3697	17,7994	18,6312	2,89288
Z120#2,00	3,98024	5,07037	120	2,00	114,593	42,296	18,6723	19,5452	2,88822
Z120#2,25	4,46147	5,6834	120	2,25	127,821	47,0282	20,8275	21,8017	2,87657
Z120#2,65	5,2239	6,65466	120	2,65	148,494	54,3547	24,1955	25,3285	2,85796
Z120#3,00	5,88343	7,49481	120	3,00	166,092	60,5221	27,0624	28,3307	2,84169
Z120#3,35	6,53585	8,32592	120	3,35	183,237	66,4667	29,8554	31,2558	2,82544
Z150#1,20	2,88696	3,67766	150	1,20	132,0024	39,8726	17,272	17,9473	3,29269
Z150#1,50	3,59566	4,58046	150	1,50	163,657	49,2372	21,4101	22,2479	3,27863
Z150#1,65	3,94806	5,02937	150	1,65	179,271	53,8311	23,4526	24,3707	3,2716
Z150#1,80	4,29915	5,47662	150	1,80	194,75	58,3666	25,4774	26,4752	3,26457
Z150#1,90	4,53248	5,77386	150	1,90	204,995	61,358	26,8175	27,868	3,25988
Z150#2,00	4,76524	6,07037	150	2,00	215,181	64,3236	28,1499	29,2529	3,2552
Z150#2,25	5,3446	6,8084	150	2,25	240,386	71,6261	31,4467	32,6798	3,24349
Z150#2,65	6,26403	7,97966	150	2,65	279,949	82,9819	36,6216	38,0591	3,22478
Z150#3,00	7,06093	8,99481	150	3,00	313,802	92,5917	41,0494	42,6621	3,20841
Z150#3,35	7,85073	10,0009	150	3,35	346,948	101,902	45,3846	47,1692	3,19206
Z180#1,20	3,35796	4,27766	180	1,20	220,663	57,2983	24,1192	24,9305	3,65989
Z180#1,50	4,18441	5,33046	180	1,50	273,874	70,8508	29,9348	30,9427	3,64577
Z180#1,65	4,59568	5,85437	180	1,65	300,189	77,5136	32,811	33,916	3,63872
Z180#1,80	5,00565	6,37662	180	1,80	326,312	84,1013	35,666	36,8677	3,63167
Z180#1,90	5,27823	6,72386	180	1,90	343,621	88,4516	37,5577	38,8235	3,62697
Z180#2,00	5,55024	7,07037	180	2,00	360,845	92,7689	39,4401	40,7697	3,62226
Z180#2,25	6,22772	7,9334	180	2,25	403,534	103,418	44,1055	45,5933	3,61052
Z180#2,65	7,30415	9,30466	180	2,65	470,74	120,035	51,4502	53,1876	3,59172
Z180#3,00	8,23843	10,4948	180	3,00	528,447	134,152	57,7566	59,7086	3,57529
Z180#3,35	9,1656	11,6759	180	3,35	585,138	147,882	63,9517	66,115	3,55887
Z200#1,50	4,41991	5,63046	200	1,50	349,521	70,8574	34,4117	35,5098	3,54749
Z200#1,65	4,85473	6,18437	200	1,65	383,19	77,5209	37,7263	38,9306	3,54048
Z200#1,80	5,28825	6,73662	200	1,80	416,628	84,1093	41,0181	42,3281	3,53347
Z200#1,90	5,57653	7,10386	200	1,90	438,792	88,4601	43,2	44,5801	3,52879
Z200#2,00	5,86424	7,47037	200	2,00	460,854	92,7778	45,3719	46,8218	3,52412
Z200#2,25	6,58097	8,3834	200	2,25	515,565	103,428	50,7577	52,3809	3,51245
Z200#2,65	7,7202	9,83466	200	2,65	601,787	120,046	59,2453	61,142	3,49377
Z200#3,00	8,70943	11,0948	200	3,00	675,913	134,165	66,5419	68,6742	3,47745
Z200#3,35	9,69155	12,3459	200	3,35	748,816	147,897	73,718	76,0826	3,46113
Z220#1,50	4,89091	6,23046	220	1,50	472,244	97,9149	42,3295	43,5503	3,96428
Z220#1,65	5,37283	6,84437	220	1,65	517,901	107,18	46,4218	47,761	3,95723
Z220#1,80	5,85345	7,45662	220	1,80	563,276	116,352	50,4886	51,9458	3,95018
Z220#1,90	6,17313	7,86386	220	1,90	593,369	122,415	53,1859	54,7213	3,94547
Z220#2,00	6,49224	8,27037	220	2,00	623,338	128,436	55,8719	57,4853	3,94077
Z220#2,25	7,28747	9,2834	220	2,25	697,716	143,31	62,5381	64,3451	3,92903
Z220#2,65	8,523	10,8947	220	2,65	815,111	166,579	73,0595	75,1726	3,91024
Z220#3,00	9,65143	12,2948	220	3,00	916,216	186,41	82,1206	84,4979	3,8938
Z220#3,35	10,7435	13,6859	220	3,35	1015,82	205,754	91,0473	93,6853	3,87737
Z250#1,50	5,24416	6,68046	250	1,50	635,54	97,9238	50,1767	51,5276	3,82861
Z250#1,65	5,76141	7,33937	250	1,65	697,14	107,19	55,0398	56,5223	3,82163
Z250#1,80	6,27735	7,99662	250	1,80	758,388	116,363	59,8751	61,4884	3,81464
Z250#1,90	6,62058	8,43386	250	1,90	799,025	122,426	63,0831	64,7834	3,80999
Z250#2,00	6,96324	8,87037	250	2,00	839,506	128,448	66,2789	68,0658	3,80534
Z250#2,25	7,81735	9,9584	250	2,25	940,029	143,324	74,2145	76,2168	3,79371
Z250#2,65	9,17638	11,6897	250	2,65	1098,85	166,594	86,7524	89,0955	3,77511
Z250#3,00	10,3579	13,1948	250	3,00	1235,81	186,428	97,5634	100,201	3,75884
Z250#3,35	11,5324	14,6909	250	3,35	1370,88	205,774	108,226	111,154	3,74258
Z300#1,50	5,83291	7,43046	300	1,50	975,502	97,9362	64,2642	65,8214	3,63048
Z300#1,65	6,40903	8,16437	300	1,65	1070,36	107,204	70,5131	72,2224	3,62363
Z300#1,80	6,98385	8,89662	300	1,80	1164,74	116,378	76,7299	78,5908	3,61678
Z300#1,90	7,36633	9,38386	300	1,90	1227,39	122,442	80,8568	82,8183	3,61222
Z300#2,00	7,74824	9,87037	300	2,00	1289,82	128,465	84,9694	87,0313	3,60766
Z300#2,25	8,70047	11,0834	300	2,25	1444,96	143,342	95,1891	97,5006	3,59625
Z300#2,65	10,2165	13,0147	300	2,65	1690,42	166,616	111,357	114,064	3,57802
Z300#3,00	11,5354	14,6948	300	3,00	1902,4	186,452	125,32	128,37	3,56207
Z300#3,35	12,8473	16,3659	300	3,35	2111,79	205,802	139,112	142,501	3,54612
Z350#1,50	6,42166	8,18046	350	1,50	1408,34	97,9464	79,6097	81,3629	3,46023
Z350#1,65	7,05666	8,98937	350	1,65	1545,64	107,215	87,3702	89,2951	3,45353
Z350#1,80	7,69035	9,79662	350	1,80	1682,29	116,39	95,0945	97,1905	3,44683
Z350#1,90	8,11208	10,3339	350	1,90	1773,04	122,455	100,224	102,434	3,44236
Z350#2,00	8,53324	10,8704	350	2,00	1863,51	128,478	105,337	107,661	3,4379
Z350#2,25	9,5836	12,2084	350	2,25	2088,44	143,357	118,051	120,656	3,42673
Z350#2,65	11,2566	14,3397	350	2,65	2444,66	166,634	138,185	141,238	3,40888
Z350#3,00	12,7129	16,1948	350	3,00	2752,68	186,472	155,594	159,035	3,39328
Z350#3,35	14,1621	18,0409	350						

SÉRIE - PERFIL "Z"



	A	B1	B2	D1	D2	E	F	medida entre furos
SÉRIE 100	100	56	50	20	20	30	34	36
SÉRIE 120	120	56	50	20	20	30	34	56
SÉRIE 150	150	66	60	20	20	45	49	56
SÉRIE 180	180	76	70	20	20	45	49	86
SÉRIE 200	200	76	70	20	20	40	44	116
SÉRIE 220	220	86	80	20	20	50	54	116
SÉRIE 250	250	86	80	20	20	36	39	175
SÉRIE 270	270	86	80	20	20	41	44	185
SÉRIE 300	300	86	80	20	20	51	54	195
SÉRIE 350	350	86	80	20	20	56	59	235

DADOS TÉCNICOS - PERFIL "Z"

NOME	Peso (kg/m)	Área (cm²)	Altura (mm)	Esp. (mm)	Ix (cm4)	Iy (cm4)	Wx* (cm³)	Wx** (cm³)	Ry (cm)
Z100#1,20	2,22756	2,83766	100	1,20	46,3832	26,3337	9,05404	9,51046	3,04632
Z100#1,50	2,77141	3,53046	100	1,50	57,3219	32,4619	11,1891	11,7535	3,03229
Z100#1,65	3,04138	3,87437	100	1,65	62,6947	35,4595	12,2378	12,8552	3,02528
Z100#1,80	3,31005	4,21662	100	1,80	68,0036	38,4133	13,2741	13,9439	3,01827
Z100#1,90	3,48843	4,44386	100	1,90	71,5077	40,3583	13,958	14,6624	3,0136
Z100#2,00	3,66624	4,67037	100	2,00	74,9836	42,284	14,6364	15,3752	3,00893
Z100#2,25	4,10822	5,2334	100	2,25	83,5511	47,0148	16,3086	17,1321	2,99726
Z100#2,65	4,80785	6,12466	100	2,65	96,8996	54,3388	18,914	19,8694	2,97861
Z100#3,00	5,41243	6,89481	100	3,00	108,221	60,5041	21,1237	22,1912	2,96231
Z100#3,35	6,0099	7,65592	100	3,35	119,213	66,4467	23,269	24,4454	2,94603
Z120#1,20	2,41596	3,07766	120	1,20	70,6476	26,3409	11,5122	12,00492	2,92553
Z120#1,50	3,00691	3,83046	120	1,50	87,4178	32,4709	14,2447	14,9097	2,91153
Z120#1,65	3,30043	4,20437	120	1,65	95,6716	35,4694	15,5895	16,3176	2,90453
Z120#1,80	3,59265	4,57662	120	1,80	103,838	38,4241	16,9202	17,7107	2,89754
Z120#1,90	3,78673	4,82386	120	1,90	109,235	40,3697	17,7994	18,6312	2,89288
Z120#2,00	3,98024	5,07037	120	2,00	114,593	42,296	18,6723	19,5452	2,88822
Z120#2,25	4,46147	5,6834	120	2,25	127,821	47,0282	20,8275	21,8017	2,87657
Z120#2,65	5,2239	6,65466	120	2,65	148,494	54,3547	24,1955	25,3285	2,85796
Z120#3,00	5,88343	7,49481	120	3,00	166,092	60,5221	27,0624	28,3307	2,84169
Z120#3,35	6,53585	8,32592	120	3,35	183,237	66,4667	29,8554	31,2558	2,82544
Z150#1,20	2,88696	3,67766	150	1,20	132,0024	39,8726	17,272	17,9473	3,29269
Z150#1,50	3,59566	4,58046	150	1,50	163,657	49,2372	21,4101	22,2479	3,27863
Z150#1,65	3,94806	5,02937	150	1,65	179,271	53,8311	23,4526	24,3707	3,2716
Z150#1,80	4,29915	5,47662	150	1,80	194,75	58,3666	25,4774	26,4752	3,26457
Z150#1,90	4,53248	5,77386	150	1,90	204,995	61,358	26,8175	27,868	3,25988
Z150#2,00	4,76524	6,07037	150	2,00	215,181	64,3236	28,1499	29,2529	3,2552
Z150#2,25	5,3446	6,8084	150	2,25	240,386	71,6261	31,4467	32,6798	3,24349
Z150#2,65	6,26403	7,97966	150	2,65	279,949	82,9819	36,6216	38,0591	3,22478
Z150#3,00	7,06093	8,99481	150	3,00	313,802	92,5917	41,0494	42,6621	3,20841
Z150#3,35	7,85073	10,0009	150	3,35	346,948	101,902	45,3846	47,1692	3,19206
Z180#1,20	3,35796	4,27766	180	1,20	220,663	57,2983	24,1192	24,9305	3,65989
Z180#1,50	4,18441	5,33046	180	1,50	273,874	70,8508	29,9348	30,9427	3,64577
Z180#1,65	4,59568	5,85437	180	1,65	300,189	77,5136	32,811	33,916	3,63872
Z180#1,80	5,00565	6,37662	180	1,80	326,312	84,1013	35,666	36,8677	3,63167
Z180#1,90	5,27823	6,72386	180	1,90	343,621	88,4516	37,5577	38,8235	3,62697
Z180#2,00	5,55024	7,07037	180	2,00	360,845	92,7689	39,4401	40,7697	3,62226
Z180#2,25	6,22772	7,9334	180	2,25	403,534	103,418	44,1055	45,5933	3,61052
Z180#2,65	7,30415	9,30466	180	2,65	470,74	120,035	51,4502	53,1876	3,59172
Z180#3,00	8,23843	10,4948	180	3,00	528,447	134,152	57,7566	59,7086	3,57529
Z180#3,35	9,1656	11,6759	180	3,35	585,138	147,882	63,9517	66,115	3,55887
Z200#1,50	4,41991	5,63046	200	1,50	349,521	70,8574	34,4117	35,5098	3,54749
Z200#1,65	4,85473	6,18437	200	1,65	383,19	77,5209	37,7263	38,9306	3,54048
Z200#1,80	5,28825	6,73662	200	1,80	416,628	84,1093	41,0181	42,3281	3,53347
Z200#1,90	5,57653	7,10386	200	1,90	438,792	88,4601	43,2	44,5801	3,52879
Z200#2,00	5,86424	7,47037	200	2,00	460,854	92,7778	45,3719	46,8218	3,52412
Z200#2,25	6,58097	8,3834	200	2,25	515,565	103,428	50,7577	52,3809	3,51245
Z200#2,65	7,7202	9,83466	200	2,65	601,787	120,046	59,2453	61,142	3,49377
Z200#3,00	8,70943	11,0948	200	3,00	675,913	134,165	66,5419	68,6742	3,47745
Z200#3,35	9,69155	12,3459	200	3,35	748,816	147,897	73,718	76,0826	3,46113
Z220#1,50	4,89091	6,23046	220	1,50	472,244	97,9149	42,3295	43,5503	3,96428
Z220#1,65	5,37283	6,84437	220	1,65	517,901	107,18	46,4218	47,761	3,95723
Z220#1,80	5,85345	7,45662	220	1,80	563,276	116,352	50,4886	51,9458	3,95018
Z220#1,90	6,17313	7,86386	220	1,90	593,369	122,415	53,1859	54,7213	3,94547
Z220#2,00	6,49224	8,27037	220	2,00	623,338	128,436	55,8719	57,4853	3,94077
Z220#2,25	7,28747	9,2834	220	2,25	697,716	143,31	62,5381	64,3451	3,92903
Z220#2,65	8,5523	10,8947	220	2,65	815,111	166,579	73,0595	75,1726	3,91024
Z220#3,00	9,65143	12,2948	220	3,00	916,216	186,41	82,1206	84,4979	3,8938
Z220#3,35	10,7435	13,6859	220	3,35	1015,82	205,754	91,0473	93,6853	3,87737
Z250#1,50	5,24416	6,68046	250	1,50	635,54	97,9238	50,1767	51,5276	3,82861
Z250#1,65	5,76141	7,33937	250	1,65	697,14	107,19	55,0398	56,5223	3,82163
Z250#1,80	6,27735	7,99662	250	1,80	758,388	116,363	59,8751	61,4884	3,81464
Z250#1,90	6,62058	8,43386	250	1,90	799,025	122,426	63,0831	64,7834	3,80999
Z250#2,00	6,96324	8,87037	250	2,00	839,506	128,448	66,2789	68,0658	3,80534
Z250#2,25	7,81735	9,9584	250	2,25	940,029	143,324	74,2145	76,2168	3,79371
Z250#2,65	9,17638	11,6897	250	2,65	1098,85	166,594	86,7524	89,0955	3,77511
Z250#3,00	10,3579	13,1948	250	3,00	1235,81	186,428	97,5634	100,201	3,75884
Z250#3,35	11,5324	14,6909	250	3,35	1370,88	205,774	108,226	111,154	3,74258
Z300#1,50	5,83291	7,43046	300	1,50	975,502	97,9362	64,2642	65,8214	3,63048
Z300#1,65	6,40903	8,16437	300	1,65	1070,36	107,204	70,5131	72,2224	3,62363
Z300#1,80	6,98385	8,89662	300	1,80	1164,74	116,378	76,7299	78,5908	3,61678
Z300#1,90	7,36633	9,38386	300	1,90	1227,39	122,442	80,8568	82,8183	3,61222
Z300#2,00	7,74824	9,87037	300	2,00	1289,82	128,465	84,9694	87,0313	3,60766
Z300#2,25	8,70047	11,0834	300	2,25	1444,96	143,342	95,1891	97,5006	3,59625
Z300#2,65	10,2165	13,0147	300	2,65	1690,42	166,616	111,357	114,064	3,57802
Z300#3,00	11,5354	14,6948	300	3,00	1902,4	186,452	125,32	128,37	3,56207
Z300#3,35	12,8473	16,3659	300	3,35	2111,79	205,802	139,112	142,501	3,54612
Z350#1,50	6,42166	8,18046	350	1,50	1408,34	97,9464	79,6097	81,3629	3,46023
Z350#1,65	7,05666	8,98937	350	1,65	1545,64	107,215	87,3702	89,2951	3,45353
Z350#1,80	7,69035	9,79662	350	1,80	1682,29	116,39	95,0945	97,1905	3,44683
Z350#1,90	8,11208	10,3339	350	1,90	1773,04	122,455	100,224	102,434	3,44236
Z350#2,00	8,53324	10,8704	350	2,00	1863,51	128,478	105,337	107,661	3,4379
Z350#2,25	9,5836	12,2084	350	2,25	2088,44	143,357	118,051	120,656	3,42673
Z350#2,65	11,2566	14,3397	350	2,65	2444,66	166,634	138,185	141,238	3,40888
Z350#3,00	12,7129	16,1948	350	3,00	2752,68	186,472	155,594	159,035	3,39328
Z350#3,35	14,1621	18,0409	350	3,35	3057,27	205,824	172,809	176,635	3,37768

Grossa

Espessura mm	Peso Estimado Kg/m ²
6,35	49,46
8,00	62,82
9,50	74,58
12,50	98,12
16,00	125,60
19,00	149,15

Fina Fria

MSG	Espessura mm	Peso Estimado Kg/m ²
28	0,38	2,98
26	0,45	3,53
24	0,60	4,71
22	0,75	5,89
20	0,90	7,07
19	1,06	8,32
18	1,20	9,42
16	1,50	11,78
14	1,90	14,92
12	2,65	20,80

Fina a Quente

MSG	Espessura mm	Peso Estimado Kg/m ²
16	1,50	11,78
15	1,80	14,13
14	2,00	15,70
13	2,25	17,66
12	2,65	20,80
11	3,00	23,55
10	3,35	26,30
9	3,75	29,44
8	4,25	33,36
3/16"	4,75	37,29

Galvalume

MSG	Espessura mm	Peso Estimado Kg/m ²
28	0,43	3,34
26	0,50	3,88
22	0,80	5,88

Tabela de Slitters

Ø Interno	Largura	Espessura
20" (508mm) ou 15" (406mm)	mín FF - 25mm mín FQ - 35mm máx 1500mm	mín 0,45 máx 4,75

Xadrez

Espessura mm	Peso Estimado Kg/m ²
3,00	27,00
4,75	42,75
6,35	57,15

Zincada

MSG	Espessura mm	Peso Estimado Kg/m ²
32	0,30	2,36
30	0,35	2,75
28	0,43	3,38
26	0,50	3,93
24	0,65	5,10
22	0,80	6,28
20	0,95	7,46
19	1,11	8,71
18	1,25	9,81
16	1,55	12,17
14	1,95	15,31
13	2,30	18,06
12	2,70	21,2
11	3,00	23,55

Fornecidas em cristais normais e minimizados