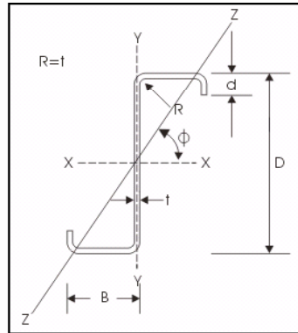


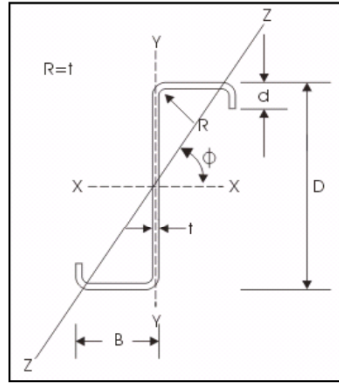


ZETAS DE ALAS ATIESADAS



DIMENSIONES Y PROPIEDADES PARA EL DISEÑO

DESIGNACION	D	B	d	t	Peso	Area (A)	Eje X-X			Eje Y-Y			x	eo
							I	S	r	l	S	r		
							cm4	cm3	cm	cm4	cm3	cm		
Z 12" X 13"	304.8	76.2	19.0	4.5	16.45	20.95	2655	174.20	11	174.7	23.63	2.89	472.4	10.4
	304.8	76.2	19.0	3.0	11.20	14.26	1847	121.20	11.38	128.50	17.20	3.00	339.0	10.8
	304.8	76.2	19.0	2.5	9.40	11.97	1560	102.40	11.42	110.60	14.75	3.04	289.3	10.9
	304.8	76.2	19.0	2.0	7.57	9.64	1266	83.04	11.46	91.28	12.14	3.08	237.0	11
Z 12" X 2"	304.8	50.8	19.0	4.5	14.65	18.67	2140	140.40	10.71	56.63	11.66	1.74	225.5	6.11
	304.8	50.8	19.0	3.0	10.00	12.75	1500	98.41	10.85	43.22	8.77	1.84	166.4	6.44
	304.8	50.8	19.0	2.5	8.40	10.70	1270	83.35	10.90	37.63	7.59	1.88	143.2	6.54
	304.8	50.8	19.0	2.0	6.77	8.62	1033	67.76	10.94	31.43	6.31	1.91	118.3	6.65
Z 10" X 3"	254.0	76.2	19.0	4.5	14.65	18.67	1709	134.60	9.57	174.7	23.62	3.06	390.9	13.5
	254.0	76.2	19.0	3.0	10.00	12.74	1194	94.00	9.68	128.5	17.20	3.18	280.8	13.9
	254.0	76.2	19.0	2.5	8.40	10.70	1010	79.53	9.72	110.6	14.75	3.21	239.7	14
	254.0	76.2	19.0	2.0	6.77	8.62	820.3	65.59	9.75	91.28	12.14	3.25	196.4	14.2
Z 10" X 2"	254.0	50.8	19.0	4.5	12.86	16.38	1354	106.60	9.09	56.59	11.66	1.86	186.4	8.02
	254.0	50.8	19.0	3.0	8.80	11.22	953.7	75.10	9.22	43.21	8.76	1.96	137.6	8.41
	254.0	50.8	19.0	2.5	7.40	9.43	809.2	63.72	9.26	37.62	7.59	2.00	118.5	8.54
	254.0	50.8	19.0	2.0	5.97	7.61	659.0	51.89	9.31	31.42	6.31	2.03	98.0	8.67
Z 9" X 3"	228.6	76.2	19.0	4.5	13.76	17.52	1329	116.20	8.71	174.67	23.62	3.16	350.2	15.6
	228.6	76.2	19.0	3.0	9.40	11.98	930.2	81.38	8.81	128.5	17.20	3.28	251.7	16.1
	228.6	76.2	19.0	2.5	7.90	10.06	787.6	86.91	8.85	110.60	14.75	3.31	214.9	16.2
	228.6	76.2	19.0	2.0	6.37	8.12	640.2	56.01	8.88	91.27	12.14	3.35	176.1	16.3
Z 9" X 2"	228.6	50.8	19.0	4.5	11.96	15.24	1042	91.13	8.27	56.57	11.65	1.93	166.8	9.35
	228.6	50.8	19.0	3.0	8.21	10.45	736.3	64.41	8.39	43.21	8.76	2.03	123.3	9.79
	228.6	50.8	19.0	2.5	6.90	8.79	625.3	54.71	8.43	37.62	7.59	2.07	106.2	9.93
	228.6	50.8	19.0	2.0	5.57	7.10	509.7	44.60	8.47	31.42	6.31	2.10	87.75	10.1
Z 8" X 3"	203.2	76.2	19.0	4.5	12.86	16.38	1004	98.85	7.83	174.70	23.62	3.27	309.4	18.4
	203.2	76.2	19.0	3.0	8.80	11.22	705.2	69.41	7.93	43.21	17.20	3.28	222.6	18.8
	203.2	76.2	19.0	2.5	7.40	9.43	597.7	58.83	7.96	37.62	14.75	3.42	190.1	19
	203.2	76.2	19.0	2.0	5.97	7.61	486.3	47.86	7.99	31.42	12.14	3.46	155.9	19.1
Z 8" X 2"	203.2	50.8	19.0	4.5	11.06	14.09	778.7	76.64	7.43	56.55	11.65	2.00	147.2	11.1
	203.2	50.8	19.0	3.0	7.61	9.69	552.5	54.38	7.55	43.20	8.76	2.11	108.9	11.6
	203.2	50.8	19.0	2.5	6.40	8.16	469.8	46.24	7.59	37.61	7.59	2.15	93.82	11.7
	203.2	50.8	19.0	2.0	5.18	6.59	383.4	37.74	7.63	37.42	6.31	2.18	77.56	11.9



DIMENSIONES Y PROPIEDADES PARA EL DISEÑO

DESIGNACION	D	B	d	t	Peso	Area (A)	Eje X-X			Eje Y-Y			x	eo
							I	S	r	I	S	r		
							cm ⁴	cm ³	cm	cm ⁴	cm ³	cm		
Z 7" X 3"	177.8	76.2	19.0	4.5	11.96	15.24	732.9	82.44	6.94	174.6	23.62	3.39	268.7	22
	177.8	76.2	19.0	3.0	8.21	10.45	516.4	58.09	7.03	128.50	17.20	3.51	193.5	22.5
	177.8	76.2	19.0	2.5	6.90	8.79	438.2	49.29	7.06	110.55	14.75	3.55	165.3	22.6
	177.8	76.2	19.0	2.0	5.57	7.10	356.9	40.16	7.09	91.27	12.14	3.59	135.6	22.8
Z 7" X 2"	177.8	50.8	19.0	4.5	10.17	12.92	561.2	63.13	6.58	56.53	11.64	2.09	127.6	13.4
	177.8	50.8	19.0	3.0	7.04	8.93	400	44.99	6.69	43.19	8.76	2.20	94.51	14
	177.8	50.8	19.0	2.5	5.91	7.52	340.6	38.32	6.73	37.61	7.59	2.24	81.46	14.1
	177.8	50.8	19.0	2.0	4.78	6.08	278.4	31.32	6.76	31.42	6.31	2.27	67.37	14.3
Z 6" X 3"	152.4	76.2	19.0	4.5	11.06	14.09	510.6	67.00	6.02	174.61	23.61	3.52	228.0	26.8
	152.4	76.2	19.0	3.0	7.61	9.69	361.4	47.42	6.11	128.50	17.20	3.64	164.4	27.3
	152.4	76.2	19.0	2.5	6.40	8.16	307.1	40.30	6.13	110.54	14.75	3.68	140.5	27.5
	152.4	76.2	19.0	2.0	5.18	6.59	250.4	32.87	6.16	91.27	12.14	3.72	115.3	27.7
Z 6" X 2"	152.4	50.8	19.0	4.5	9.27	11.81	385.5	50.59	5.71	56.51	11.64	2.19	108.04	16.6
	152.4	50.8	19.0	3.0	6.41	8.17	276.3	36.26	5.82	43.19	8.76	2.30	80.13	17.3
	152.4	50.8	19.0	2.5	5.41	6.09	235.7	30.93	5.05	37.61	7.59	2.34	69.10	17.5
	152.4	50.8	19.0	2.0	4.38	5.58	193.0	25.33	5.88	31.42	6.31	2.37	57.18	17.6
Z 5" X 2"	127.0	50.8	19.0	4.5	8.37	10.67	247.9	39.04	4.82	56.49	11.64	2.30	88.46	21.4
	127.0	50.8	19.0	3.0	5.81	7.41	179.0	28.18	4.92	43.18	8.76	2.41	65.76	22
	127.0	50.8	19.0	2.5	4.91	6.25	153.0	24.1	4.95	37.60	7.59	2.45	56.75	22.3
	127.0	50.8	19.0	2.0	3.98	5.07	125.6	19.77	4.98	31.41	6.31	2.49	46.99	22.5
Z 4" X 2"	101.6	50.8	19.0	4.5	7.48	9.52	144.7	28.49	3.90	56.47	11.63	2.44	68.88	28.7
	101.6	50.8	19.0	3.0	5.22	6.64	105.5	20.77	3.98	43.18	8.76	2.55	51.39	29.4
	101.6	50.8	19.0	2.5	4.41	5.62	90.5	17.81	4.01	37.60	7.59	2.59	44.39	29.6
	101.6	50.8	19.0	2.0	3.58	4.56	74.5	14.66	4.04	31.41	6.31	2.62	36.79	29.8
Z 3" X 2"	76.2	50.8	19.0	4.5	6.58	8.38	72.3	18.97	2.94	56.45	11.63	2.60	49.30	40.4
	76.2	50.8	19.0	3.0	4.62	5.88	53.5	14.04	3.02	43.17	8.76	2.71	37.00	41
	76.2	50.8	19.0	2.5	3.91	4.98	46.1	12.10	3.04	37.60	7.59	2.75	32.03	41.2
	76.2	50.8	19.0	2.0	3.18	4.05	38.1	10.01	3.07	31.41	6.31	2.78	26.60	41.4
Z 3" X 1 1/2"	76.2	38.1	19.0	3.0	3.88	4.394	42.5	11.16	2.93	17.93	4.90	1.91	20.97	29.8
	76.2	38.1	19.0	2.5	3.30	4.20	36.8	9.67	2.96	15.84	4.30	1.94	18.34	30.1
	76.2	38.1	19.0	2.0	2.69	3.42	30.6	8.04	2.99	13.42	3.62	1.98	15.38	30.4

Longitud Comercial: 6 mts

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