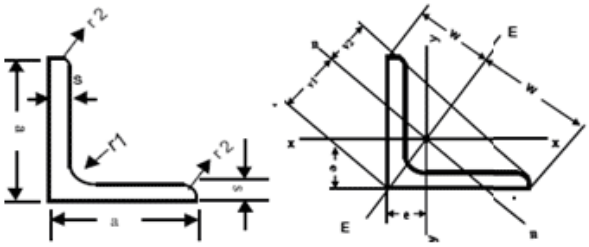
FERRUM

Ángulos



Calidades: COVENIN 1036 – 2005
ASTM – A –36.
ST – 37 – 2

Nacionales

L	DIMENSIONES (mm)				Área	Peso	DISTANCIA DE LOS EJES				MOMENTO RESPECTO A LOS EJES							
											x – x = y – y			E-E		n – n		
	a	s	r_1	r_2	cm^2	kg/m	e cm	w cm	v_1 cm	v_2 cm	Ix cm^4	Sx cm^3	Rx cm	I_E cm^4	R_E cm	I_n cm^4	R_n cm^3	S_n cm
20 x 3	20	3.0	3.5	2.0	1.12	0.88	0.60	1.41	0.85	0.70	0.39	0.28	0.59	0.62	0.74	0.15	0.18	0.37
25 x 3	25	3.0	3.5	2.0	1.42	1.12	0.73	1.77	1.03	0.87	0.79	0.45	0.75	1.27	0.95	0.31	0.30	0.47
30 x 3	30	3.0	5.0	2.5	1.74	1.36	0.84	2.12	1.18	1.04	1.41	0.65	0.90	2.24	1.14	0.57	0.48	0.57
35 x 4	35	4.0	5.0	2.5	2.67	2.10	1.00	2.47	1.41	1.24	2.96	1.18	1.05	4.68	1.33	1.24	0.88	0.68
35 x 6		6.0			3.87	3.04	1.08		1.53	1.27	4.14	1.71	1.04	6.50	1.30	1.77	1.16	0.68
40 x 4	40	4.0	6.0	3.0	3.08	2.42	1.12	2.83	1.58	1.40	4.48	1.55	1.21	7.08	1.52	1.86	1.18	0.78
40 x 6		6.0			4.48	3.52	1.20		1.70	1.43	6.33	2.26	1.19	9.98	1.49	2.67	1.57	0.77
50 x 4	50	4.0	7.0	3.5	3.89	3.06	1.36	3.54	1.92	1.75	8.97	2.46	1.52	14.20	1.91	3.73	1.94	0.98
50 x 5		5.0			4.80	3.77	1.40		1.98	1.76	11.00	3.05	1.51	17.40	1.90	4.59	2.32	0.98
50 x 7		7.0			6.56	5.15	1.49		2.11	1.78	14.60	4.15	1.49	23.10	1.88	6.02	2.85	0.96
65 x 5	65	4.5	9.0	4.5	6.35	4.98	1.75	4.60	2.49	2.28	24.96	5.27	1.98	39.91	2.53	10.00	4.00	1.27
65 x 6		6.0			7.53	5.91	1.80		2.55	2.28	29.20	6.21	1.97	46.30	2.48	12.10	4.74	1.27
65 x 7		7.0			8.70	6.83	1.85		2.62	2.29	33.40	7.18	1.96	53.0	2.47	13.80	5.27	1.26
75 x 7	75	7.0	10.0	5.0	10.10	7.94	2.09	5.30	2.95	2.63	52.40	9.67	2.28	83.60	2.88	21.10	7.15	1.45
75 x 8		8.0			11.50	9.03	2.13		3.01	2.65	58.90	11.00	2.26	93.30	2.85	24.40	8.11	1.46
90 x 7	90	7.0	11.0	5.5	12.20	9.62	2.45	6.36	3.46	3.17	92.50	14.13	2.75	147.0	3.46	38.00	11.00	1.77
100 x 8	100	8.0	12.0	6.0	15.50	12.20	2.74	7.07	3.87	3.52	145.00	19.90	3.06	230.00	3.85	59.90	15.50	1.96
100 x 10		10.0			19.20	15.10	2.82		3.99	3.54	177.00	24.70	3.04	280.00	3.82	73.30	18.40	1.95

Importados

120 x 8	120	8.0	13.0	6.5	18.70	14.70	3.23	8.49	4.56	4.22	255.00	29.10	3.69	405.00	4.65	105.00	23.60	2.37
120 x 10		10.0			23.10	18.20	3.31		4.68	4.24	313.00	36.00	3.68	497.00	4.73	129.00	27.60	2.37
120 x 12		12.0			27.50	21.60	3.40		4.80	4.26	368.00	42.70	3.65	584.00	4.60	152.00	31.60	2.35
150 x 12	150	12.0	16.0	8.0	34.80	27.30	4.12	10.60	5.83	5.29	737.00	67.70	4.60	1170.00	5.80	303.00	52.00	2.95

Caracteristicas Mecánicas

GRADO NORMA COVENIN	GRADO EQUIV. ASTM	PTO. CEDENTE Fy (min)	PTO. RUPTURA Fu (min)	ALARGAMIENTO (%)
AE – 25	A – 36	2.500 kg/cm^2	3.700 kg/cm^2	21
AE – 35	A – 50	3.500 kg/cm^2	5.200 kg/cm^2	18

Composición Química Típica

C %	Mn %	Si %	S (max) %	P (max) %
0.12 – 0.20	0.60 – 0.80	0.15 – 0.25	0.05	0.05