

METRIC



CATÁLOGO DE PRODUCTOS

ventas@metric.com.mx
www.metric.com.mx



CONTENIDO

ÁNGULOS	4
SOLERAS	5
COLD ROLLED	6
CUADRADOS	7
REDONDOS	7
CANALES "U" (CPS)	8
VIGAS IPS	8
VIGAS IPR	9
TEE DE FIERRO LADOS IGUALES	12
PERFILES TUBULARES PINTADOS Y GALVANIZADOS	13
PERFILES TUBULARES	14
POLINES ESTRUCTURALES (MONTEN)	18
PERFILES ESTRUCTURALES PTR	19
CUADRADOS Y RECTANGULARES HSS	20
TUBERÍA DE CÉDULA	22
TUBO CÉDULA 30 ESTRUCTURAL	23
TUBO CÉDULA 40 ESTRUCTURAL	23
TUBO CÉDULA 80 ESTRUCTURAL	24
TUBO NORMA	24

CONTENIDO

TUBO INDUSTRIAL MOFLE	25
LÁMINA NEGRA ROLADA EN CALIENTE	26
LÁMINA NEGRA ROLADA EN FRÍO	26
LÁMINA ANTIDERRAPANTE	26
PLACA DE GRADO	27
LÁMINA GALVANIZADA Y PINTADA	28
ALAMBRE, VARILLA CORRUGADA, ALAMBRON	31

ÁNGULOS

LADOS IGUALES					
PULGADAS		MILIMETROS		KGS. X MT	

1/8"	X		3.2	X	3/4	19.1	0.88
		1			25.4	1.19	
		1 1/4			31.7	1.5	
		1 1/2			38.1	1.83	
		1 3/4			44.5	2.34	
		2			50.8	2.46	

5/32"	X	1 1/2	4.06	X	38.1	2.28
		2			50.8	6.18
		2 1/2			63.5	7.84

3/16"	X	1	4.8	X	25.4	1.73
		1 1/4			31.7	2.2
		1 1/2			38.1	2.68
		1 3/4			44.5	3.17
		2			50.8	3.63
		2 1/2			63.5	4.6
		3			76.2	5.52
		3 1/2			88.9	6.55

1/4"	X	1	6.35	X	25.4	2.22
		1 1/4			31.7	2.86
		1 1/2			38.1	3.49
		2			50.8	4.75
		2 1/2			63.5	6.1
		3			76.2	7.29
		3 1/2			88.9	8.63
		4			101.6	9.90

5/16"	X	2	7.9	X	25.8	5.83
		2 1/2			63.5	7.44
		3			76.2	9.08
		3 1/2			88.9	10.71
		4			101.6	12.2

LADOS IGUALES					
PULGADAS		MILIMETROS		KGS. X MT	

		2			50.8	6.99
		2 1/2			63.5	8.79
		3			76.2	10.72
3/8"	X	3 1/2	9.5	X	88.9	12.65
		4			101.6	14.6
		5			127	18.3
		6			152.4	22.17

7/16"	X	4	11.11	X	101.6	16.82
		5			127	21.28
		6			152.4	25.6

1/2"	X	2 1/2	12.7	X	63.5	12.35
		3			76.2	13.99
		3 1/2			88.9	16.52
		4			101.6	19.05
		5			127	24.11
		6			152.4	29.17

5/8"	X	4	15.9	X	101.6	23.4
		6			152.4	36.01

3/4"	X	6	19.1	X	152.4	42.71
		8			203.2	58.08

7/8"	X	8	22.2	X	203.2	67
------	---	---	------	---	-------	----

1"	X	8	25.4	X	203.2	75.9
----	---	---	------	---	-------	------

LADOS DESIGUALES					
PULGADAS		MILIMETROS		KGS. X MT	

3/8"	4X6	9.5	101.6	X 152.4	18.3
------	-----	-----	-------	---------	------

1/2"	4X6	12.7	X 101.6	X 152.4	24.11
------	-----	------	---------	---------	-------

5/8"	4X6	15.9	X 101.6	X 152.4	29.5
------	-----	------	---------	---------	------

SOLERAS

MEDIDAS		
PULGADAS	MILIMETROS	KGS. X MT

1/8"	X	3.2	X	1/2	12.7	0.32
				3/4	19.1	0.47
				1	25.4	0.63
				1 1/4	31.7	0.79
				1 1/2	38.1	0.95
				2	50.8	1.27
				2 1/2	63.5	1.59
				3	76.2	1.9
				4	101.6	2.62
				6	152.3	3.93

3/16"	X	4.8	X	1/2	12.7	0.47
				3/4	19.1	0.71
				1	25.4	0.95
				1 1/4	31.7	1.19
				1 1/2	38.1	1.42
				2	50.8	1.9
				2 1/2	63.5	2.38
				3	76.2	2.85
				4	101.6	3.93

1/4"	X	6.3	X	1/2	12.7	0.63
				3/4	19.1	0.95
				1	25.4	1.27
				1 1/4	31.7	1.58
				1 1/2	38.1	1.9
				2	50.8	2.53
				2 1/2	63.5	3.17
				3	76.2	3.8
				4	101.6	5.06
				5	127	6.33
				6	152.4	7.6
				8	203.4	10.12

5/16"	X	7.9	X	1 1/2	38.1	2.38
				2	58.8	3.17
				2 1/2	63.5	3.96
				3	76.2	4.75
				4	101.6	6.55
				5	127	7.92
				6	152.4	9.51
				8	203.2	12.68
				10	254	15.85

3/8"	X	9.5	X	1	25.4	1.9
				1 1/4	31.7	2.37
				1 1/2	38.1	2.85
				2	50.8	3.8
				2 1/2	63.5	4.75
				3	76.2	5.7
				4	101.6	7.6

MEDIDAS		
PULGADAS	MILIMETROS	KGS. X MT

3/8"	X	9.5	X	5	127	9.5
				6	152.4	11.4
				8	203.2	15.19
				10	254	18.99
				12	304.8	22.79

1/2"	X	12.7	X	1	25.4	2.53
				1 1/2	38.1	3.8
				2	50.8	5.06
				2 1/2	63.5	6.33
				3	76.2	7.6
				4	101.6	10.13
				5	127	12.66
				6*	152.4	15.19
				8	203.2	20.26
				10	254	25.32
				12	304.8	30.39

5/8 "	X	15.9	X	1 1/2	38.1	4.74
				2	50.8	6.33
				2 1/2	63.5	7.91
				3	76.2	9.5
				4	101.6	12.66
				5	127.3	15.83
				6	152.4	18.99
				8	203.2	25.32
				10	254	31.66
				12	304.8	37.99

3/4"	X	19.1	X	1 1/2	38.1	5.7
				2	50.8	7.6
				2 1/2	63.5	9.5
				3	76.2	11.4
				4	101.6	15.19
				5	127	18.99
				6	152.4	22.79
				8	203.2	30.99
				10	254	37.99
				12	304.8	45.58

1"	X	25.4	X	1 1/2	38.1	7.7
				2	50.8	10.13
				3	76.2	15.19
				4	101.6	20.26
				6	152.4	30.39
				8	203.2	40.52
				10	254	50.64
				12	304.8	60.76

SOLERA PERFORADA 3/16 X 1 1/4					3.6 KG./PZ. A 3M.
-------------------------------	--	--	--	--	----------------------

COLD ROLLED

DIAMETRO			PESO		
MILIMETROS	FRACCIÓN	MILESÍ.	RED.	CUAD.	HEX.
4.76	3/16	0.187	0.14	0.178	0.154
6.35	1/4	0.25	0.248	0.316	0.274
7.94	5/16	0.312	0.388	0.496	0.428
9.53	3/8	0.375	0.559	0.712	0.616
11.11	7/16	0.437	0.761	0.964	0.839
12.7	1/2	0.5	0.994	1.265	1.09
14.29	9/16	0.562	1.257	1.601	1.387
15.87	5/8	0.625	1.552	1.976	1.712
17.46	11/16	0.687	1.878	2.393	2.072
19.05	3/4	0.75	2.235	2.847	2.465
20.64	13/16	0.812	2.624	3.341	2.893
22.22	7/8	0.875	3.042	3.874	3.355
23.81	15/16	0.937	3.493	4.449	3.852
25.4	1	1	3.974	5.06	4.383
26.99	1 1/16	1.062	4.486	5.712	4.947
28.57	1 1/8	1.125	5.029	6.404	5.547
30.16	1 3/16	1.187	5.605	7.138	6.179
31.75	1 1/4	1.25	6.211	7.908	6.848
33.34	1 5/16	1.312	6.846	8.717	7.549
34.92	1 3/8	1.375	7.47	9.567	8.285
36.51	1 7/16	1.437	8.212	10.46	9.058
38.1	1 1/2	1.5	8.942	11.39	9.86
39.69	1 9/16	1.562	9.704	12.35	
41.27	1 5/8	1.625	10.49	13.31	
42.86	1 11/16	1.687	11.32	14.41	
44.45	1 3/4	1.75	12.17	15.4	
46.04	1 13/16	1.812	13.06	16.62	
47.62	1 7/8	1.875	13.97	17.79	
49.21	1 15/16	1.937	14.91	18.99	
50.8	2	2	15.9	20.24	
52.39	2 1/16	2.062	16.91	21.52	
52.39	2 1/8	2.125	17.95	22.85	

DIAMETRO			PESO	
MILIMETROS	FRACCIÓN	MILESÍ.	RED.	CUAD.
55.56	2 3/16	2.187	19	24.21
57.15	2 1/4	2.25	20.1	25.63
58.74	2 5/16	2.312	21.3	27.07
60.32	2 3/8	2.375	22.4	28.55
61.91	2 7/16	2.437	23.6	30.06
63.5	2 1/2	2.5	24.8	31.63
65.07	2 9/16	2.562	26.1	33.23
66.67	2 5/8	2.625	27.4	34.87
68.28	2 11/16	2.687	28.7	36.55
69.85	2 3/4	2.75	30.1	37.21
71.44	2 13/16	2.812	31.4	40.03
73.02	2 7/8	2.875	32.9	41.82
74.61	2 15/16	2.937	34.3	43.63
76.2	3	3	35.8	45.54
77.77	3 1/16	3.062	37.3	47.37
79.37	3 1/8	3.125	38.8	49.41
80.96	3 3/16	3.187	40.4	51.52
82.55	3 1/4	3.25	42	53.46
84.18	3 3/16	3.312	43.6	55.53
85.72	3 3/8	3.375	45.3	57.64
87.31	3 7/16	3.437	47	59.8
88.9	3 1/2	3.5	48.7	61.99
90.47	3 9/16	3.562	50.5	64.21
92.07	3 5/8	3.625	52.2	66.5
93.66	3 11/16	3.687	54	68.82
95.25	3 3/4	3.75	55.9	71.17
96.84	3 13/16	3.812	57.8	73.55
98.42	3 7/8	3.875	59.7	75.98
100.01	3 15/16	3.937	61.6	76.96
101.6	4	4	63.6	80.96

PULIDO (SEMIFLECHA)		
PULG.	MM.	KG/ML
3/16	4.8	0.14
1/4	6.3	0.25
5/16	7.9	0.39
3/8	9.54	0.56
1/2	12.7	1

CUADRADOS

PULGADAS	MM.	KG./M
1/4	6.3	0.35
3/8	9.5	0.71
1/2	12.7	1.27
5/8	15.9	1.98
3/4	19	2.85
1	25.4	5.06
1 1/4	31.8	7.91
1 1/2	38.1	11.4
2	50.8	20.24

- * Milimétrico
- Cuadrado caramelo

REDONDOS

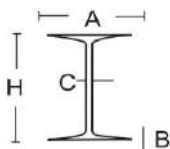
REDONDOS		
PULGADAS	MM.	KG./MI
3/8	9.5	0.56
1/2	12.7	1.00
5/8	15.9	1.55
3/4	19	2.24
7/8	22.2	3.04
1	25.4	3.97
1 1/8	28.6	5.03
1 1/4	31.7	6.21
1 3/8	34.9	7.51
1 1/2	38.1	8.94
1 3/4	44.4	12.17
2	50.8	15.9
2 1/4	57.2	20.11
2 1/2	63.5	24.83

CANALES "U" (CPS)

PERFILES	PESO	PATÍN		ALMA ESPESOR
		ANCHO	ESPESOR	
PULGADAS	KG/MTO.	MM.	MM.	MM.
3	6.1	36	7	4
4	8.04	40	8	5
5	9.96	44	6	4
6	12.2	49	9	5
	15.63	52	9	8
	19.35	55	9	11
8	17.11	57	10	6
	20.46	60	10	8
	27.9	64	10	12
10	22.76	66	11	6
	29	70	11	10
	37.2	73	11	13
	44.70	73	11	17
12	30.8	75	13	7
	37.2	77	13	10
	44.70	81	13	13
15	50.4	86	16.5	10.2

VIGAS IPS

PERALTE		PATÍN		ESPESOR DEL ALMA	PESO
PULG.	MM.	ANCHO	ESPESOR	MM.	KG/M
		MM.	MM.		
3	76.2	59.2	6.60	4.3	8.48
4	101.6	67.64	7.44	4.8	11.46
5	127	76.3	8.28	5.3	14.88
6	152.4	84.63	9.12	5.8	18.6
8	203.2	101.62	10.82	6.9	27.38



A - ANCHO PATÍN
 B - ESPESOR PATÍN
 C - ESPESOR DEL ALMA
 H - PERALTE

VIGAS IPR

NOTA: Vigas no incluidas en esta tabla favor de solicitar cotización

DIMENSIONES		PESO		PERALTE		ANCHO PATÍN		ESPESOR DEL PATÍN		ESPESOR DEL ALMA	
PULG.	MM.	KG/M	LBS/FT	PULG.	MM	PULG.	MM.	PULG.	MM.	PULG.	MM.
6" x 4"	152.4 x 101.6	12.7	8.5	5.83	148	3.94	100	0.19	4.9	0.17	4.3
		13.4	9	5.91	150	3.94	100	0.22	5.5	0.17	4.3
		17.9	12	6.03	153	4.02	102	0.28	7.1	0.23	5.8
		23.8	16	6.28	160	4.03	102	0.41	10.3	0.26	6.6
6" x 6"	152.4 x 152.4	22.5	15	5.99	152	5.99	152	0.26	6.6	0.23	5.8
		29.8	20	6.20	157	6.02	153	0.37	9.3	0.26	6.6
		37.3	25	6.38	162	6.08	154	0.46	11.6	0.32	8.1
8" x 4"	203.2 x 101.6	14.9	10	7.89	200	3.94	100	0.21	5.2	0.17	4.3
		19.4	13	7.99	203	4.02	102	0.26	6.5	0.23	5.8
		22.5	15	8.11	206	4.02	102	0.32	8	0.25	6.2
8" x 5 1/4"	203.2 x 133.4	26.9	18	8.14	207	5.25	133	0.33	8.4	0.23	5.8
		31.3	21	8.28	210	5.27	134	0.4	10.2	0.25	6.4
8" x 6 1/2"	203.2 x 165.1	35.7	24	7.93	201	6.50	165	0.4	10.2	0.25	6.5
		41.7	28	8.06	205	6.54	166	0.47	11.8	0.29	7.4
8" x 8"	203.2 x 203.2	46.1	31	8.00	203	8.00	203	0.44	11	0.29	7.2
		52.1	35	8.12	206	8.02	204	0.5	12.7	0.31	7.9
		59.6	40	8.25	210	8.07	205	0.56	14.2	0.36	9.1
		71.5	48	8.5	216	8.11	206	0.69	17.4	0.4	10.2
		86.4	58	8.65	221	8.15	207	0.74	20.6	0.49	12.9
10" x 4"	254.0 x 101.6	17.9	12	9.87	251	3.96	101	0.21	5.3	0.19	4.8
		22.4	15	9.99	254	4.02	102	0.27	6.9	0.23	5.8
		25.4	17	10.11	257	4.01	102	0.33	8.4	0.24	6.1
		28.3	19	10.24	260	4.02	102	0.40	10	0.25	6.4
10" x 5 3/4"	254.0 x 146.0	32.8	22	10.17	258	5.75	146	0.36	9.1	0.24	6.1
		38.7	26	10.33	262	5.77	147	0.44	11.2	0.26	6.6
		44.7	30	10.47	266	5.81	148	0.51	13	0.30	7.6
10" x 8"	254.0 x 203.2	49.1	33	9.73	247	7.96	202	0.44	11	0.29	7.4
		58	39	9.92	252	7.99	203	0.53	13.5	0.32	8
		67	45	10.12	257	8.03	204	0.53	15.7	0.35	8.9
10" x 10"	254.0 x 254.0	72.9	49	9.98	253	10	254	0.56	14.2	0.34	8.6
		80.4	54	10.09	256	10.03	255	0.62	15.7	0.37	9.4
		89.3	60	10.22	260	10.08	256	0.68	17.3	0.42	10.7
		101.3	68	10.40	264	10.13	257	0.77	19.6	0.47	11.9
		114.7	77	10.60	269	10.19	259	0.87	22.1	0.53	13.5
		131	88	10.84	275	10.26	261	0.99	25.1	0.61	15.4
12" x 4"	304.8 x 101.6	148.9	100	11.1	282	10.35	263	1.11	28.4	0.76	17.2
		20.9	14	11.91	303	3.97	101	0.23	5.7	0.2	5.1
		23.9	16	11.99	305	3.99	101	0.27	6.9	0.22	5.1
		28.3	19	12.16	309	4.01	102	0.35	8.9	0.24	6
12" x 6 1/2"	304.8 x 165.1	32.8	22	12.31	313	4.03	102	0.43	10.8	0.26	6.6
		38.7	26	12.22	310	6.49	165	0.38	9.7	0.23	5.8
		44.7	30	12.34	313	6.52	166	0.44	11.2	0.26	6.6
		52.2	35	12.50	318	6.56	167	0.52	13.2	0.30	7.6
12" x 8"	304.8 x 203.2	59.6	40	11.94	303	8.01	203	0.52	13.1	0.30	7.6
		67.1	45	12.06	306	8.05	204	0.58	14.6	0.34	8.5
		74.5	50	12.19	310	8.08	205	0.64	16.3	0.37	9.4

VIGAS IPR

NOTA: Vigas no incluidas en esta tabla favor de solicitar cotización

DIMENSIONES		PESO		PERALTE		ANCHO PATÍN		ESPESOR DEL PATÍN		ESPESOR DEL ALMA	
PULG.	MM.	KG/M	LBS/FT	PULG.	MM	PULG.	MM.	PULG.	MM.	PULG.	MM.
12" x 10"	304.8 x 254.0	78.9	53	12.06	306	10	254	0.58	14.6	0.35	8.8
		86.3	58	12.19	310	10.01	254	0.64	16.3	0.36	9.1
12" x 12"	304.8 x 304.8	96.7	65	12.12	308	12	305	0.61	15.4	0.39	9.9
		107	72	12.25	311	12.04	306	0.67	17	0.43	10.9
		117.6	79	12.38	314	12.08	307	0.74	18.8	0.47	11.9
		129.5	87	12.53	318	12.13	308	0.81	20.6	0.52	13.1
		142.9	96	12.89	323	12.22	309	0.99	25.1	0.61	15.5
		157.8	106	13.41	327	12.40	315	1.25	31.8	0.79	20.1
		178.6	120	13.11	333	12.32	313	1.11	28.1	0.71	18
14" x 5"	355.6 x 127.0	202.4	136	13.41	341	12.4	315	1.25	31.8	0.79	20.1
		32.7	22	13.74	349	5	127	0.34	8.5	0.23	5.8
14" x 6 3/4"	355.6 x 171.4	38.7	26	13.91	353	5.03	128	0.42	10.7	0.26	6.5
		44.7	30	13.84	352	6.73	171	0.39	9.8	0.27	6.9
14" x 8"	355.6 x 203.2	50.7	34	13.98	355	6.75	171	0.46	11.6	0.29	7.2
		56.6	38	14.10	358	6.77	172	0.52	13.1	0.31	7.9
14" x 10"	355.6 x 254.001	64.1	43	13.66	347	8	203	0.53	13.5	0.31	7.7
		71.5	48	13.79	350	8.03	204	0.60	15.1	0.34	8.6
14" x 12"	355.6 x 304.8	78.9	53	13.92	354	8.06	205	0.66	16.8	0.37	9.4
		90.8	61	13.89	353	10	254	0.65	16.5	0.38	9.7
14" x 14"	355.6 x 355.6	101.3	68	14.09	357	10.04	255	0.72	18.3	0.42	10.7
		110.2	74	14.17	360	10.07	256	0.79	20	0.45	11.4
14" x 16"	355.6 x 406.4	122.1	82	14.31	363	10.13	257	0.86	21.8	0.51	13
		133.9	90	14.02	356	14.52	369	0.71	18	0.44	11.2
14" x 18"	355.6 x 457.2	147	99	14.16	360	14.57	370	0.78	19.8	0.49	12.3
		162	109	14.32	364	14.61	371	0.86	21.8	0.53	13.3
14" x 20"	355.6 x 508.0	178.6	120	14.48	368	14.67	373	0.94	23.9	0.59	15
		196.4	132	14.66	372	14.73	374	1.03	26.2	0.65	16.4
14" x 22"	355.6 x 559.0	215.8	145	14.78	375	15.51	394	1.09	27.2	0.68	17.3
		236.6	159	14.96	380	15.55	295	1.18	30.2	0.74	18.9
14" x 24"	355.6 x 610.0	346.7	233	16.02	407	15.91	404	1.72	43.7	1.07	27.2
		38.7	26	15.69	399	5.51	140	0.35	8.8	0.25	6.4
16" x 5 1/2"	406.4 x 140.0	46.1	31	15.88	403	5.53	140	0.44	11.2	0.28	7.1
		53.6	36	15.86	403	6.99	177	0.43	10.9	0.3	7.6
16" x 7"	406.4 x 177.8	59.6	40	16.01	407	7	178	0.51	12.8	0.31	7.7
		67.1	45	16.13	410	7.04	179	0.57	14.4	0.35	8.8
16" x 9"	406.4 x 228.6	74.5	50	16.26	413	7.07	180	0.63	16	0.38	9.7
		84.8	57	16.42	417	7.13	181	0.73	18.2	0.43	10.9
16" x 11"	406.4 x 279.4	99.8	67	16.33	415	10.24	260	0.67	16.9	0.40	10
		114.6	77	16.52	420	10.3	261	0.76	19.3	0.46	11.7
16" x 13"	406.4 x 330.2	132	89	16.75	425	10.39	263	0.88	22.2	0.53	13.3
		148.8	100	16.97	431	10.43	265	0.99	25	0.59	14.9
18" x 6"	457.2 x 152.0	52.1	35	17.72	450	6	152	0.43	10.9	0.3	7.6
		59	40	18.00	457	6	152	0.53	13.3	0.32	8
18" x 8"	457.2 x 203.2	68.5	46	18.06	459	6.06	154	0.61	15.4	0.36	9.1
		74.4	50	17.99	457	7.5	190	0.57	14.5	0.36	9
18" x 10"	457.2 x 254.0	81.8	55	18.11	460	7.53	191	0.63	16	0.39	9.9
		89.3	60	18.24	463	7.56	192	0.7	17.7	0.42	10.5
18" x 12"	457.2 x 304.8	96.9	65	18.35	466	7.59	193	0.75	19	0.45	11.4
		105.6	71	18.47	469	7.64	194	0.81	20.6	0.5	12.6

VIGAS IPR

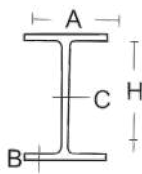
NOTA: Vigas no incluidas en esta tabla favor de solicitar cotización

DIMENSIONES		PESO		PERALTE		ANCHO PATÍN		ESPESOR DEL PATÍN		ESPESOR DEL ALMA	
PULG.	MM.	KG/M	LBS/FT	PULG.	MM	PULG.	MM.	PULG.	MM.	PULG.	MM.
18" x 11"	457.2 x 279.4	113.2	76	18.21	463	11.04	280	0.68	17.3	0.43	10.8
		128.1	86	18.39	467	11.09	282	0.77	19.6	0.48	12.2
		144.4	97	18.59	472	11.15	283	0.87	22.1	0.54	13.6
		157.7	106	18.73	476	11.2	284	0.94	23.9	0.59	15
		177.1	119	18.97	482	11.27	286	1.06	26.9	0.65	16.6
		193.5	130	19.25	489	11.15	283	1.2	30.5	0.67	17
		212.8	143	19.49	495	11.23	285	1.32	33.5	0.73	18.5
		235.1	158	19.72	501	11.3	287	1.45	36.6	0.81	20.6
		260.4	175	20.04	509	11.38	289	1.59	40.4	0.89	22.6
21" x 6 1/2	533.4 x 165.1	65.5	44	20.66	525	6.5	165	0.45	11.4	0.35	8.9
		74.4	50	20.83	529	6.53	166	0.54	13.7	0.38	9.7
		84.8	57	21.06	535	6.53	166	0.65	16.5	0.41	10.3
		71.4	48	20.55	522	8.18	208	0.46	11.9	0.32	8.2
		81.8	55	20.8	528	8.22	209	0.52	13.3	0.38	9.5
		92.3	62	20.99	533	8.24	209	0.62	15.6	0.4	10.2
21" x 8 1/4"	533.4 x 311.2	101.2	68	21.13	537	8.27	210	0.69	17.4	0.43	10.9
		108.7	73	21.73	539	8.3	211	0.74	18.8	0.45	11.6
		123.6	83	21.83	544	8.36	212	0.84	21.3	0.52	13.1
		138.5	93	21.93	549	8.42	214	0.93	23.6	0.58	14.7
		150.3	101	21.39	543	12.28	312	0.8	20.3	0.5	12.7
21" x 12 1/4"	533.4 x 209.5	165.2	111	21.5	546	12.32	313	0.87	22.2	0.55	14
		181.6	122	21.69	551	12.4	315	0.96	24.4	0.6	15.2
		196.4	132	21.81	554	12.44	316	1.04	26.3	0.65	16.5
		218.8	147	22.05	560	12.52	318	1.15	29.2	0.72	18.3
24" x 7"	609.6 x 177.8	81.8	55	23.57	599	7.01	178	0.51	12.8	0.4	10
		92	62	23.74	603	7.04	179	0.59	15	0.43	10.9
24" x 9"	609.6 x 228.6	101.2	68	23.73	603	8.97	228	0.59	14.9	0.42	10.5
		113	76	23.92	608	8.99	228	0.68	17.3	0.44	11.2
		125	84	24.1	612	9.02	229	0.77	19.6	0.47	11.9
		139.9	94	24.31	617	9.07	230	0.88	22.2	0.52	13.1
		153.3	103	24.53	623	9.02	229	0.98	24.9	0.55	14
24" x 12 3/4"	609.6 x 324.0	155	104	24.06	611	12.75	324	0.75	19	0.5	12.7
		174	117	24.26	616	12.8	325	0.85	21.6	0.55	14
		195	131	24.48	622	12.86	327	0.96	24.4	0.61	15.4
		217	146	24.74	628	12.91	328	1.09	27.7	0.65	16.5
		241.1	162	25	635	12.95	329	1.22	31	0.7	17.9
		261.9	176	25.24	641	12.87	327	1.34	34	0.75	19.1
27" x 10"	685.8 x 254.0	125	84	26.71	678	9.96	253	0.64	16.3	0.46	11.7
		139.9	94	26.92	684	9.99	254	0.75	18.9	0.49	12.4
		152	102	27.09	688	10.02	254	0.83	21.1	0.52	13.1
		170	114	27.29	693	10.07	256	0.93	23.6	0.57	14.5
		192	129	27.64	702	10	254	1.09	27.9	0.61	15.5
27" x 14"	658.8 x 355.6	217.3	146	27.38	695	13.97	355	0.98	24.8	0.61	15.4
		239.6	161	27.59	701	14.02	356	1.08	27.4	0.66	16.8

VIGAS IPR

NOTA: Vigas no incluidas en esta tabla favor de solicitar cotización

DIMENSIONES		PESO		PERALTE		ANCHO PATÍN		ESPESOR DEL PATÍN		ESPESOR DEL ALMA	
PULG.	MM.	KG/M	LBS/FT	PULG.	MM	PULG.	MM.	PULG.	MM.	PULG.	MM.
30" x 10 1/2"	762.0 x 266.7	139.9	90	29.53	750	10.40	264	0.61	15.5	0.47	11.9
		147.3	99	29.65	753	10.45	265	0.67	17	0.52	13.2
		160.7	108	29.84	758	10.47	266	0.76	19.3	0.54	13.8
		172.6	116	30	762	10.51	267	0.85	21.6	0.57	14.4
		184.5	124	30.16	766	10.51	267	0.93	23.6	0.59	14.9
		196.4	132	30.32	770	10.55	268	1	25.4	0.61	15.6
		220.2	148	30.66	779	10.47	266	1.18	30	0.65	16.5
33" x 11 1/2"	838.2 x 292.1	176	118	32.86	835	11.48	292	0.74	18.8	0.55	14
		193	130	33.09	840	11.51	292	0.86	21.7	0.58	14.7
		209.8	141	33.31	846	11.54	293	0.94	24.4	0.61	15.4
		251.5	169	33.82	859	11.5	292	1.22	31	0.67	17
36" x 12"	914.4 x 304.8	200.9	135	35.55	903	11.95	304	0.79	20.1	0.6	15.2
		223	150	35.85	911	11.98	304	0.94	23.9	0.63	15.9
		238.1	160	36.02	915	12.01	305	1.02	25.9	0.65	16.5
40" x 12"	1016 x 304.8	221.7	149	38.2	970	11.81	300	1.83	46.5	0.63	16
		248.5	167	38.9	980	11.81	300	1.02	26	0.63	16.5



H - PERALTE
A - PATÍN

B - ESPESOR PATÍN
C - ESPESOR DEL ALMA

TEE DE FIERRO LADOS IGUALES



DIMENSIONES		PESO KG/M
PULGADAS	MILÍMETROS	
1/8 X 1	25.4	1.19

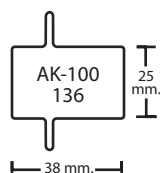
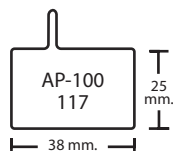
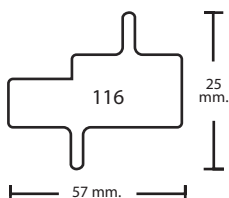
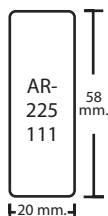
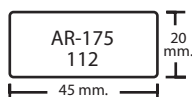
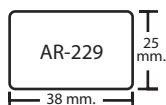
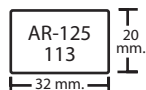
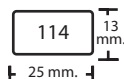
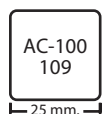
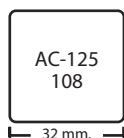
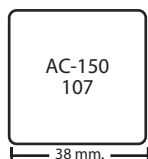
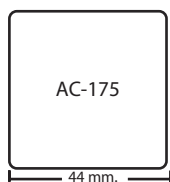
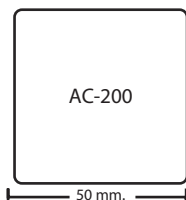
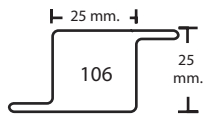
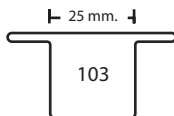
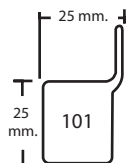
PERFILES TUBULARES PINTADOS Y GALVANIZADOS

Largo estandar 6 mts. Otras medidas indicadas a continuación. Variación en peso (+,-) 5%

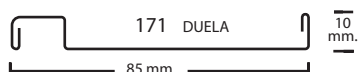
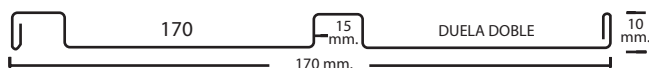
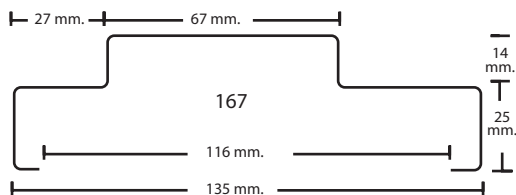
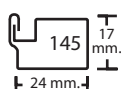
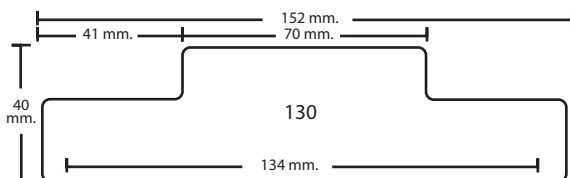
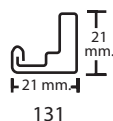
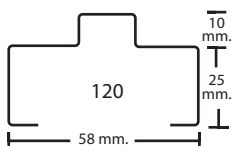
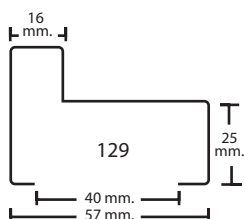
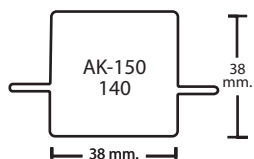
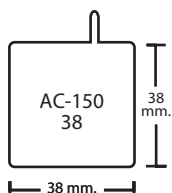
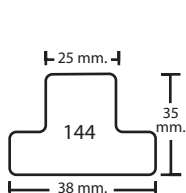
No. PERFIL	CALIBRE	LONGITUD	PESO X METRO	PESO X BARRA	PESO POR ATADO
A-30	18		0.458	2.75	12
	20		0.343	2.06	12
101	18		1.23	7.4	10
	20		0.93	5.55	10
103	18		1.4	8.61	10
	20		1.05	6.46	10
106	18		1.4	8.4	10
	20		1.05	6.3	10
107 o AC-150	18		1.4	8.4	10
	20		1.05	6.3	10
108 o AC-125	18		1.2	7.2	10
	20		0.9	5.4	10
109 o AC-100	18		0.933	5.6	10
	20		0.7	4.2	10
110 o AC-075	18		0.7	4.2	10
	20		0.55	3.3	10
111 o AR-225	18		1.44	8.93	10
	20		1.08	6.58	10
112 o AR-175	18		1.2	7.2	10
	20		0.9	5.4	10
113 o AR-125	18		0.95	5.7	10
	20		0.71	4.26	10
114 o AR-110	18		0.7	4.2	10
	20		0.55	3.3	10
116	18		1.97	11.4	6
	20		1.46	8.76	6
117 o AP-100	18		1.35	8.1	10
	20		1.016	6.1	10
120	18		1.33	8	8
	20		1	6	8
121	18		1.33	8	10
	20		1	6	10
122	18		1.33	8	10
	20		1	6	10
123	18		1.425	8.533	10
	20		1.077	6.4	10
124	18		0.69	4.16	10
	20		1.65	10.42	8
AP-126	18		1.25	7.88	8
	20		1.88	11.3	6
AK-127	18		1.4	8.67	6
	20		1.4	8.67	6
129	18	5.5	1.4	7.7	10
	20	5.5	0.94	5.64	10
130	18	5.5	2.25	12.375	6
	20	5.5	1.7	9.35	6
131	20		0.667	4.0	20
132 o AP-400	18		2.86	17.15	6
	20		2.14	12.85	6
133 o AP-300	18		2.3	14.11	6
	20		1.75	10.5	6
135 o AK-300	18		2.6	15.6	4
	20		1.95	11.7	6

No. PERFIL	CALIBRE	LONGITUD	PESO X METRO	PESO X BARRA	PESO POR ATADO
136 o AK-100	18		1.580	9.4	6
	20		1.233	7.4	8
138 o AP-150	18		1.615	9.3	8
	20		1.233	7.27	6
140 o AK-150	18		1.73	10.4	6
	20		1.445	8.7	8
144	18		1.5	9	8
	20		1.167	7	20
145	20		0.695	4.17	10
146 o AR-200	18		1.467	8.4	10
	20		1.105	6.65	48
154	18		0.25	1.5	48
	20		0.190	1.1	50
155	20		0.300	1.4	20
156	20		0.4	2.4	8
158 o AR-249	18		1.855	11.13	8
	20		1.390	8.34	10
160	18		1.488	8.93	10
	20		1.117	6.70	6
161 o AP-200	18		1.83	11	6
	20		1.405	8.3	6
162 o AK-200	18		2.133	12.8	6
	20		1.633	9.8	6
167	18	5.5	2.103	11.73	6
	20	5.5	1.600	8.80	6
168 o AP-250	18		2.08	12.48	6
	20		1.58	9.48	8
170	20		1.55	9.3	10
171	20		0.878	5.27	4
172 o AR-400	18		2.700	16.20	4
	20		2.00	12.00	6
173 o AR-300	18		2.1	12.6	6
	20		1.633	9.8	12
1400	18		1.24	7.44	4
	14		3.06	18.36	4
1500	16		2.45	14.7	6
AR-229	18		1.185	7.11	6
	20		0.888	5.33	6
AR-250	18		1.917	11.71	6
	20		1.463	8.78	20
AC-050	18		0.468	2.81	20
	20		0.352	2.11	6
AC-175	18		1.7	10.24	6
	20		1.27	7.69	6
AC-200	18		1.952	11.71	6
	20		1.463	8.78	
849	20	0.9		6.2	
	20	1.8		12.3	
	20	2.4		16.4	
	20	3.1		20.4	
850	IGUAL AL NO. 849				

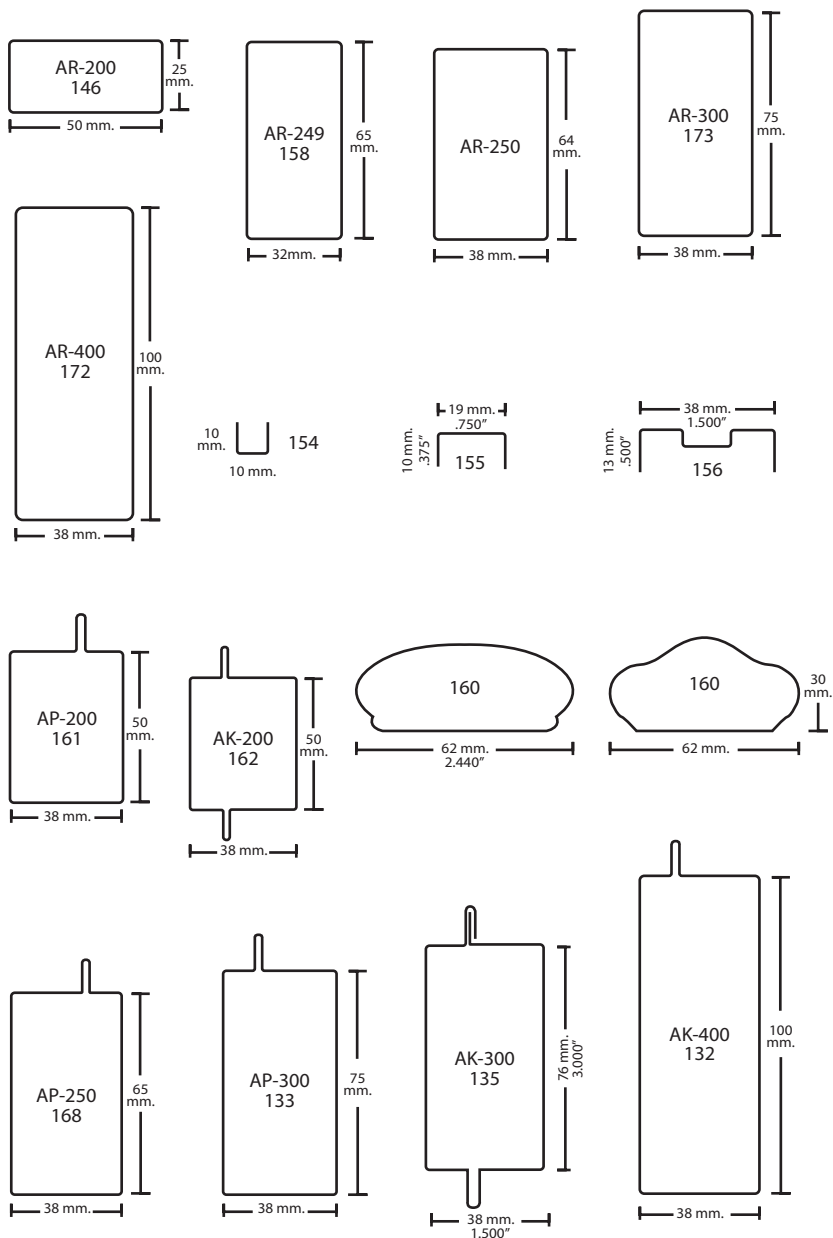
PERFILES TUBULARES



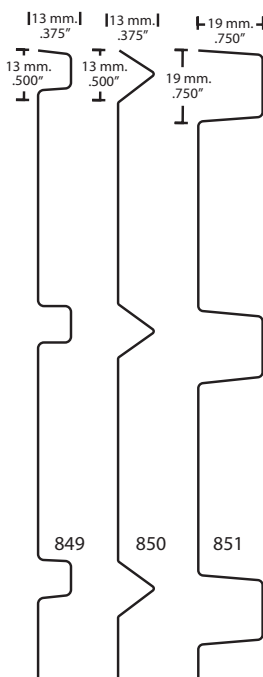
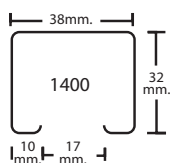
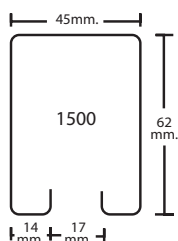
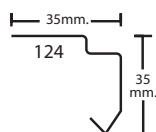
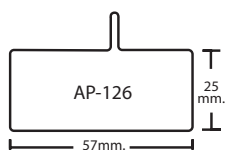
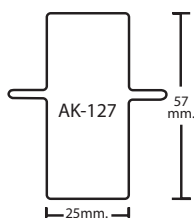
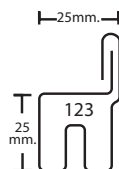
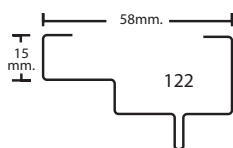
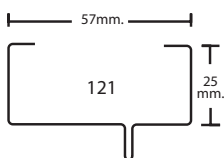
PERFILES TUBULARES



PERFILES TUBULARES



PERFILES TUBULARES



TABLEROS

ANCHO CONTINUAR



ANCHO ESTANDAR



LARGO CONTINUAR



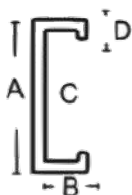
LARGO ESTANDAR



Se fabrican en .91, 1.83, 2.44 y 3.05 mts.
Indicar calibre deseado en sus pedidos

POLINES ESTRUCTURALES (MONTEN)

PERALTE PULG.	MM.	CAL.	LARGO	PATÍN	PESO/METRO	PESO/BARRA
3	76	16	4	1 1/2	1.744	6.958
		14	4	1 1/2	2.55	10.2
		14	5	1 1/2	2.55	12.75
		14	6	1 1/2	2.55	15.3
		13	4	1 1/2	2.6	10.374
		12	4	1 1/2	3.70	12.209
		10	4	1 1/2	3.92	15.64
4	102	16	4	2	2.77	11.05
		14	4	2	3.44	13.73
		14	5	2	3.44	17.17
		14	6	2	3.44	20.61
		12	4	2	4.73	18.87
		10	4	2	5.98	23.86
5	127	16	6	2	3.08	18.45
		14	5	2	3.82	19.06
		14	6	2	3.82	22.9
		12	5	2	5.27	26.3
		10	5	2	6.68	33.33
6	152	16	6	2	3.39	20.31
		14	6	2	4.21	25.26
		12	6	2	5.82	34.92
		10	6	2	7.38	44.28
7	178	16	7	2 3/4	4.17	29.148
		14	7	2 3/4	5.18	36.208
		12	7	2 3/4	7.17	50.118
		10	7	2 3/4	9.12	63.75
8	203	14	6	2 3/4	5.31	31.88
		16	8	2 3/4	5.18	41.39
		14	8	2 3/4	5.57	44.56
		12	8	2 3/4	7.72	61.76
		10	8	2 3/4	9.82	78.56
10	254	16	10	2 3/4	5.1	50.949
		14	10	2 3/4	6.34	63.40
		12	10	2 3/4	8.8	88.00
		10	10	2 3/4	11.22	112.20
12	305	14	12	3 1/2	7.57	90.84
		12	12	3 1/2	10.64	127.68
		10	12	3 1/2	13.74	164.88



A - PERALTE
B - PATÍN

C - ESPESOR DEL ALMA
D - CEJA

PERFILES ESTRUCTURALES (PTR)

MEDIDA	CAL.	COLOR	KG./M	KG./PZA	\$/K
3/4" X 3/4" 19 X 19 MM	14	C 18	1.06	6.4	
1" X 1" 25 X 25 MM No. 1010	14	AZL	1.44	8.64	T
	13	VDE	1.71	10.25	
	11		2.25	13.5	A
	10	ROJ	2.6	15.6	A
1 1/4" X 1 1/4" 31 X 31 MM No. 1212	14	AZL	1.83	10.98	T
	12	BCO	2.53	15.2	A
	11	VDE	2.87	17.2	
	10				
1 1/2" X 1 1/2" 38 X 38 MM No. 1515	14	AZL	2.25	13.5	T
	12	BCO	3.1	18.6	A
	11	VDE	3.42	20.5	A
	10	ROJ	3.89	23.7	A
1 3/4" X 1 3/4" 44.4 X 44.4 MM	14	AZL	2.63	15.82	T
2" X 1" 50.8 X 25.4 MM	14	AZL	2.17	13	
	11	VDE	3.47	20.8	
2" X 2" 51 X 51 MM No. 2020	14	AZL	3	18	T
	12	BCO	4.13	24.8	B
	11	VDE	4.62	27.72	B
	10	ROJ	5.50	33.5	B
	3/16		6.75	40.5	B
	1/4		8.34	50	
2 1/2" X 1 1/4"	14	AZL	2.77	16.6	
2 1/2" X 1 1/2"	14	AZL	2.97	17.8	
2 1/2" X 2 1/2" 64 X 64 MM No. 2525	14	AZL	3.77	22.6	T
	12	NAR	5.17	31	B
	11	BCO	5.83	35	B
	10	VDE	6.67	40	B
	3/16	ROJ	8.77	52.6	B
3" X 1 1/2"	14	AZL	3.34	20.04	
3" X 2" 76 X 51 MM No. 3020	14	AZL	3.77	22.6	T
	11	BCO	5.84	35	B
	10	VDE	6.67	40	B
	3/16	ROJ	8.77	52.6	B

MEDIDA	CAL.	COLOR	KG./M	KG./PZA	\$/K
3" X 3" 76 X 76 MM No. 3030	14	AZL	4.48	26.8	T
	11	BCO	7.05	42.3	C
	10	VDE	7.96	47.76	C
	3/16	ROJ	10.42	63.6	C
3 1/2" X 2 1/2" 89 X 64 MM No. 3525	1/4		13.5	82.3	
	11	BCO	7.05	42.3	C
	10	VDE	7.97	47.8	C
3 1/2" X 3 1/2" 89 X 89 MM No. 3535	3/16	ROJ	10.6	64.66	C
	11	BCO	8.33	50.8	C
	10	VDE	9.33	56	C
4" X 1 1/2" 102 X 38 MM	3/16	ROJ	12.46	76	C
	14	AZL	4.02	24.5	
4" X 2" 102 X 51 MM No. 4020	14	AZL	4.47	27.2	C
	11	BCO	7.05	42.3	C
	10	VDE	7.96	47.76	C
	3/16	ROJ	10.43	63.6	
4" X 3" 102 X 76 MM No. 4030	14	AZL	5.33	32	C
	12	NAP	7.52	45.12	C
	11	BCO	8.33	49.98	C
	10	VDE	9.33	56	C
	3/16	ROJ	12.46	76	T
4" X 4" 102 X 102 MM No. 4040	14	AZL	6	36	C
	11	BCO	9.5	57	C
	10	VDE	10.66	64	C
	3/16	ROJ	14.06	85.78	
5" X 3" 127 X 26 MM No. 5030	1/4		18.67	112	T
	14	AZL	4.45	26.7	C
	11	BCO	9.54	57.22	C
	10	VDE	10.67	64	C
	3/16	ROJ	14.17	85	
6" X 2" 152.4 X 51 MM	14	AZL	5.9	36	
	11	BCO	9.5	57	
	10	VDE	10.66	64	
	3/16	ROJ	14.25	85.52	
	1/4		18.67	112	

CUADRADOS Y RECTANGULARES (HSS)

TABLA DE PRODUCTO				LONGITUD 12.20 MTS.	
DIMENSIONES PLG/MM	ESPESOR		KG./M	PZS/ PAQ	KG./ PAQ
	PULG.	MM.			
4 X 4" 102 X 102	1/8"	3.2	9.6	6	702
	3/16"	4.8	14.01	6	1025
	1/4"	6.4	18.16	6	1329
	5/16"	8	22.06	6	1614
	3/8"	9.5	25.7	6	1881
	1/2"	12.7	32.19	6	2356
5 X 5" 127 X 127	1/8"	3.2	12.13	6	887
	3/16"	4.8	17.8	6	1302
	1/4"	6.4	23.25	6	1701
	5/16"	8	28.39	6	2078
	3/8"	9.5	33.29	6	2436
	1/2"	12.7	42.3	6	3096
6 X 3" 152 X 76	1/8"	3.2	10.86		
	3/16"	4.8	15.92		
	1/4"	6.4	20.7		
	5/16"	8	25.24		
	3/8"	9.5	29.5		
	1/2"	12.7	37.25		
6 X 4" 152 X 102	1/8"	3.2	12.14		
	3/16"	4.8	17.9		
	1/4"	6.4	23.2		
	5/16"	8	28.39		
	3/8"	9.5	33.29		
	1/2"	12.7	42.31		
6 X 6" 152 X 152	3/16"	4.8	21.62	6	1579
	1/4"	6.4	28.30	6	2068
	5/16"	8	34.73	6	2537
	3/8"	9.5	40.89	6	2987
	1/2"	12.7	52.44	4	2554
8 X 4" 203 X 102	3/16"	4.8	21.62	8	2106
	1/4"	6.4	28.30	6	2068
	5/16"	8	34.73	6	2537
	3/8"	9.5	40.89	4	1991
	1/2"	12.7	52.44	4	2554
8 X 6" 203 X 152	3/16"	4.8	25.43	6	1857
	1/4"	6.4	33.36	6	2437
	5/16"	8	41.06	6	2999
	3/8"	9.5	48.48	4	2361
	1/2"	12.7	62.58	4	3047

TABLA DE PRODUCTO				LONGITUD 12.20 MTS.	
DIMENSIONES PLG/MM	ESPESOR		KG./M	PZS/ PAQ	KG./ PAQ
	PULG.	MM.			
8 X 8" 203 X 203	3/16"	4.8	29.17	4	1423
	1/4"	6.4	38.42	4	1871
	5/16"	8	47.38	4	2307
	3/8"	9.5	56.09	4	2731
	1/2"	12.7	72.70	4	3540
	5/8"	15.9	88.28	2	2149
10 X 4" 254 X 102	3/16"	4.8	25.42	8	2476
	1/4"	6.4	33.36	6	2437
	5/16"	8	41.06	6	2999
	3/8"	9.5	48.48	4	2361
	1/2"	12.7	62.58	4	3047
10 X 6" 254 X 152	3/16"	4.8	29.21	4	1423
	1/4"	6.4	38.42	4	1871
	5/16"	8	47.38	4	2307
	3/8"	9.5	56.09	4	2731
	1/2"	12.7	72.70	4	3540
10 X 8" 254 X 203	3/16"	4.8	32.96	4	1607
	1/4"	6.4	43.44	4	2118
	5/16"	8	53.64	4	2616
	3/8"	9.5	63.59	4	3101
	1/2"	12.7	82.71	4	4034
10 X 10" 254 X 254	3/16"	4.8	36.75	4	1792
	1/4"	6.4	48.56	4	2365
	5/16"	8	60.05	4	2924
	3/8"	9.5	71.28	4	3471
	1/2"	12.7	92.95	4	4526
	5/8"	15.9	113.59	2	2766
12 X 4" 305 X 102	3/16"	4.8	29.21	4	1423
	1/4"	6.4	38.42	4	1871
	5/16"	8	47.38	4	2307
	3/8"	9.5	56.09	4	2731
	1/2"	12.7	72.70	2	1770

CUADRADOS Y RECTANGULARES (HSS)

TABLA DE PRODUCTO				LONGITUD 12.20 MTS.	
DIMENSIONES PLG/MM	ESPESOR		KG./M	PZS/ PAQ	KG./ PAQ
	PULG.	MM.			
12 X 6" 305 X 152	3/16"	4.8	33.01	4	1607
	1/4"	6.4	43.50	4	2118
	5/16"	8	53.72	4	2616
	3/8"	9.5	63.68	4	3101
	1/2"	12.7	82.83	4	4034
12 X 8" 305 X 203	3/16"	4.8	36.75	4	1792
	1/4"	6.4	48.56	4	2365
	5/16"	8	60.05	4	2924
	3/8"	9.5	71.28	4	3471
	1/2"	12.7	92.95	4	4526
12 X 12" 305 X 305	5/8"	15.9	113.43	2	2766
	1/4"	6.4	58.7	4	2863
	5/16"	8	72.71	4	3546
	3/8"	9.5	86.46	2	2105
	1/2"	12.7	113.20	2	2756
14 X 6" 356 X 152	5/8"	15.9	139.1	2	
	5/16"	8	60.05	2	1462
	3/8"	9.5	71.28	2	1736
14 X 10" 356 X 254	1/2"	12.7	92.95	2	2263
	5/16"	8	72.71	4	3546
	3/8"	9.5	86.34	2	2105
	1/2"	12.7	113.04	2	2756

TABLA DE PRODUCTO				LONGITUD 12.20 MTS.	
DIMENSIONES PLG/MM	ESPESOR		KG./M	PZS/ PAQ	KG./ PAQ
	PULG.	MM.			
14 X 14" 356 X 356	5/16"	8	85.36	2	2078
	3/8"	9.5	101.66	2	2475
	1/2"	12.7	133.46	2	3250
	5/8"	15.9	166.00		
16 X 12" 406 X 305	5/16"	8	85.24	2	2078
	3/8"	9.5	101.51	2	2475
	1/2"	12.7	133.26	2	3250
16 X 16" 406 X 406	5/16"	8	98.03	2	2387
	3/8"	9.5	116.85	2	2845
	1/2"	12.7	153.73	2	3743
	5/8"	15.9	189.01		
18 X 6" 508 X 203	3/16"	4.8	44.4	2	1083
	1/4"	6.4	58.68	2	1431
	5/16"	8	72.7	2	1773
	3/8"	9.5	86.45	2	2109
	1/2"	12.7	113.2	2	2762
20 X 8" 508 X 203	5/8"	15.9	139.1	2	3394
	5/16"	8	85.24	2	2078
	3/8"	9.5	101.5	2	2475
20 X 12" 508 X 305	1/2"	12.7	133.26	2	3250
	5/16"	8	97.88	2	2387
	3/8"	9.5	116.68	2	2845
	1/2"	12.7	153.5		3743

TUBERÍA DE CÉDULA

DIÁMETRO	ESPESOR	CÉDULA	KG./M
6"	0.188"	40-STD	19.35
	0.203"		20.91
	0.219"		22.47
	0.250"		25.55
	0.280"		28.22
	0.312"	80-XS	31.31
	0.344"		34.24
	0.375"		37.25
	0.432"		42.67
8"	0.500"	20	48.73
	0.188"		25.37
	0.203"		27.43
	0.219"		29.48
	0.250"		33.57
	0.277"		36.76
	0.312"	40-STD	41.14
	0.322"		42.65
	0.344"		45.14
10"	0.375"	30	49.1
	0.438"		56.94
	0.500"		64.64
	0.188"		31.76
	0.203"		34.35
	0.219"		36.94
	0.250"	40-STD	42.09
	0.279"		46.57
	0.307"		51.03
12"	0.344"	60-XS	56.72
	0.365"		60.5
	0.438"		71.72
	0.500"		81.55
	0.188"		37.77
	0.203"	20	40.87
	0.219"		43.96
	0.250"		50.11
	0.281"		55.47
14"	0.312"	30	61.56
	0.330"		65.35
	0.344"		67.83
	0.375"	STD	73.75
	0.406"		79.65
	0.438"		85.62
	0.500"		97.36
	0.188"	40	25.37
	0.203"		27.43
	0.219"		29.48
	0.250"		33.57
16"	0.281"	10S	36.76
	0.312"		41.14
	0.344"		45.14
	0.375"		49.1
	0.406"	20	56.94
	0.438"		64.64
	0.469"		71.72
	0.500"		81.55
	0.188"	30-STD	37.77
	0.203"		40.87
	0.219"		43.96
	0.250"		50.11
18"	0.281"	40	55.47
	0.312"		61.56
	0.344"		67.83
	0.375"		73.75
	0.406"	10S	79.65
	0.438"		85.62
	0.469"		97.36
	0.500"		107.39
	0.188"	20	25.37
	0.203"		27.43
	0.219"		29.48
	0.250"		33.57
20"	0.281"	30	36.76
	0.312"		41.14
	0.344"		45.14
	0.375"		49.1
	0.406"	40-STD	56.94
	0.438"		64.64
	0.469"		71.72
	0.500"		81.55
	0.188"	60-XS	37.77
	0.203"		40.87
	0.219"		43.96
	0.250"		50.11
24"	0.281"	20	55.47
	0.312"		61.56
	0.344"		67.83
	0.375"		73.75
	0.406"	STD	79.65
	0.438"		85.62
	0.469"		97.36
	0.500"		107.39
	0.188"	80-XS	25.37
	0.203"		27.43
	0.219"		29.48
	0.250"		33.57
30"	0.281"	10	36.76
	0.312"		41.14
	0.344"		45.14
	0.375"		49.1
	0.406"	20	56.94
	0.438"		64.64
	0.469"		71.72
	0.500"		81.55
	0.188"	30-STD	37.77
	0.203"		40.87
	0.219"		43.96
	0.250"		50.11
36"	0.281"	40	55.47
	0.312"		61.56
	0.344"		67.83
	0.375"		73.75
	0.406"	10S	79.65
	0.438"		85.62
	0.469"		97.36
	0.500"		107.39
	0.188"	20	25.37
	0.203"		27.43
	0.219"		29.48
	0.250"		33.57

DIÁMETRO	ESPESOR	CÉDULA	KG./M
14"	0.188"	10S	41.52
	0.203"		44.93
	0.219"		48.33
	0.250"	10	55.11
	0.281"		61.02
	0.312"	20	67.88
	0.344"		74.42
	0.375"	30-STD	81.21
	0.406"		87.71
	0.438"	40	94.41
	0.469"		100.86
0.500"		107.39	
16"	0.188"	10S	47.54
	0.203"		51.45
	0.219"		55.23
	0.250"	10	63.13
	0.281"		69.91
	0.312"	20	77.79
	0.344"		85.32
	0.375"	30-STD	93.13
	0.406"		100.61
	0.438"		108.2
	0.469"		115.77
0.500"	40-XS	124.3	
18"	0.250"	10	71.12
	0.375"	STD	105.05
	0.500"	XS	140.15
20"	0.250"	10	79.16
	0.281"		87.7
	0.375"	20-STD	116.97
	0.500"	30-XS	156.12
24"	0.250"	10	94.53
	0.375"	20-STD	141.12
	0.500"	XS	188.06
30"	0.250"	5	127.3
	0.375"	CED.STD.	176.29
	0.500"	EXT.FTE.	234.67
32"	0.312"	10	176.52
	0.375"	CED.STD.	188.24
	0.500"	EXT.FTE.	250.64
36"	0.375"	CED.STD.	211.9
	0.500"	EXT.FTE.	282.2

TUBERÍA

TUBO CÉDULA 30 ESTRUCTURAL

DIÁMETRO NOMINAL		DIÁMETRO EXTERIOR		CAL.	KG./M	KG./PIEZA
1/2"	(13mm)	0.84	(21mm)	14	0.978	5.87
3/4"	(19mm)	1.05	(27mm)	14	1.1	7.33
1"	(25mm)	1.315	(33mm)	14	1.6	9.36
1 1/4"	(32mm)	1.66	(42mm)	13	2.364	14.185
1 1/2"	(38mm)	1.9	(48mm)	13	2.71	16.26
2"	(51 mm)	2.375	(60mm)	12	3.96	23.76
2 1/2"	(64mm)	2.875	(73mm)	12	5.32	31.92
3"	(76mm)	3.5	(89mm)	11	6.75	40.5
4"	(120 mm)	4.5	(114mm)	11	8.74	52.44

TUBO CÉDULA 40 ESTRUCTURAL

DIÁMETRO NOMINAL (PULG.)	DIÁMETRO EXTERIOR (PULG.)	DIÁMETRO INTERIOR (PULG.)	ESPESOR (PULG.)	PESO (KG./M)
1/2	0.84	0.622	0.109	1.27
3/4	1.05	0.824	0.113	1.69
1	1.315	1.049	0.133	2.65
1 1/4	1.66	1.38	0.14	3.49
1 1/2	1.9	1.61	0.145	4.37
2	2.375	1.72	0.154	5.44
2 1/2	2.875	2.469	0.203	8.63
3	3.5	3.068	0.216	12.25
4	4.5	4.026	0.237	16.07
6	6.625	6.065	0.28	29.65
8	8.625	8.125	0.322	42.65

TUBERÍA

TUBO CÉDULA 80 ESTRUCTURAL

DIÁMETRO NOMINAL		DIÁMETRO EXTERIOR		ESPESOR		PESO EXT. LISO		PESO ROSCA Y COPLE		PESO POR TUBO		TUBOS/TON.
MM.	PULG.	MM.	PULG.	MM.	PULG.	KG./M	IB/PIE	KG./M	IB/PIE	EXTERNO LISO	CON ROSCA Y COPLE	
13	1/2 "	21.34	0.84	3.73	0.147	1.62	1.09	1.622	1.09	10.381	10.381	97
19	3/4 "	26.67	1.05	3.91	0.154	2.19	1.47	2.202	1.48	14.003	14.093	71
25	1"	33.4	1.315	4.55	0.179	3.23	2.17	3.244	2.18	20.666	20.762	48
32	1 1/4"	42.16	1.66	4.85	0.191	4.46	3	4.494	3.02	28.57	28.762	35
38	1 1/2"	48.26	1.9	5.08	0.2	5.4	3.63	5.447	3.66	34.573	34.861	29
50	2"	60.33	2.375	5.54	0.218	7.47	5.02	7.545	5.07	47.814	48.288	21
76	3"	83.9	3.503	7.6	0.299	15.3	10.28	9.218	6.194	57.664	58.995	17
102	4"	114.3	4.498	8.5	0.334	22.3	14.98	12.985	8.72	81.299	83.104	12
152	6"	168	6.614	11	0.433	42.5	28.56	--	--	--	--	--

TUBO NORMA

DIÁMETRO		DIÁMETRO EXTERIOR		ESPESOR		PESO EXT. LISO		PESO ROSCA Y COPLE		PESO POR TUBO	TUBOS/TON.
MM.	PULG.	MM.	PULG.	MM.	PULG.	KG./M	IB/PIE	KG./M	IB/PIE	EXTERNO LISO	
64	2 1/2	73.03	2.875	4.06	0.16	6.905	4.64	7.031	4.724	44.192	22
76	3	88.9	3.5	4.32	0.17	9.01	6.055	9.218	6.194	57.664	17
102	4	114.3	4.5	4.7	0.185	12.703	8.536	12.987	8.726	81.299	12

TUBO INDUSTRIAL (MOFLE)

Diámetro de 1/2" A 1 1/4" Calidad T.P.
Diámetro de 1.315" A 4" Calidad C.C.

DIÁMETRO EXTERIOR		CALIBRE	KILOS POR	
PULG.	MM.		METRO	PZA.
1/2"	12.7	18	0.4	2.4
		20	0.3	1.8
5/8"	15.9	16	0.6	3.6
		18	0.5	3
		20	0.4	2.4
3/4"	19	16	0.7	4.2
		18	0.6	3.6
		20	0.45	2.7
7/8"	22.2	16	0.9	5.4
		18	0.7	4.2
		20	0.5	3
1"	25.4	14	1.2	7.2
		16	1	6
		18	0.8	4.8
1 1/8"	22.6	20	0.6	3.6
		14	1.4	8.4
		16	1.1	6.6
1 1/4"	31.8	18	0.9	5.4
		20	0.7	4.2
1.315"	33.4	14	1.5	9
		16	1.2	7.2
		18	1	6
1 1/2"	38.1	20	0.7	4.2
		14	1.7	10.2
		16	1.3	7.8
1 3/4"	44.5	18	1.1	6.6
		20	0.8	4.8
1.915"	48.9	14	1.8	10.8
		16	1.5	9
		18	1.2	7.2
2"	51.6	20	0.9	5.4
		14	2.1	12.6
		16	1.7	10.2
2 1/4"	60.3	18	1.4	8.4
		20	1	6
2.315"	59.7	14	2.3	13.8
		16	1.8	10.8
		18	1.5	9
2 1/2"	63.5	20	1.1	6.6
		14	2.3	13.8
		16	1.8	10.8
2 3/4"	68.3	18	1.5	9
		20	1.1	6.6
3"	76.2	14	2.4	14.4
		16	2	12
		18	1.6	9.6
3 1/2"	88.9	20	1.2	7.2
		14	2.7	16.2
		16	2.2	13.2
3 3/4"	95.3	18	1.8	10.8
		20	1.3	7.8
4"	101.6	14	3.1	18.6
		16	2.4	14.4
		18	2	12
4 1/2"	113.0	20	1.5	9
		14	3.7	22.2
		16	2.9	17.5
5"	127.0	18	2.4	14.4
		14	4.1	24.6
		16	3.3	19.8
5 1/2"	141.3	18	2.8	16.8
		14	4.6	27.6
		16	3.7	22.6
6"	152.4	18	3.2	19.2

DIÁMETRO EXTERIOR		CALIBRE	KILOS POR	
PULG.	MM.		METRO	PZA.
1 1/2"	38.1	14	2.1	12.6
		16	1.7	10.2
		18	1.4	8.4
1 3/4"	44.5	20	1	6
1.915"	48.9	14	2.3	13.8
		16	1.8	10.8
		18	1.5	9
2"	51.6	20	1.1	6.6
2 1/4"	60.3	14	2.3	13.8
		16	1.8	10.8
		18	1.5	9
2 1/2"	63.5	20	1.1	6.6
2 3/4"	68.3	14	2.4	14.4
		16	2	12
		18	1.6	9.6
3"	76.2	20	1.2	7.2
3 1/2"	88.9	14	2.7	16.2
		16	2.2	13.2
		18	1.8	10.8
3 3/4"	95.3	20	1.3	7.8
4"	101.6	14	3.1	18.6
		16	2.4	14.4
		18	2	12
4 1/2"	113.0	20	1.5	9
5"	127.0	14	3.7	22.2
		16	2.9	17.5
		18	2.4	14.4
5 1/2"	141.3	14	4.1	24.6
		16	3.3	19.8
		18	2.8	16.8
6"	152.4	14	4.6	27.6
6 1/2"	165.1	16	3.7	22.6
7"	177.8	18	3.2	19.2

LÁMINA NEGRA

ROLADA EN CALIENTE

DEL CAL. 8 AL 14

CAL.	ESPESOR EN MM.	ESPESOR EN PULGADAS	3' X 8' KG./HOJA	3' X 10' KG./HOJA	4' X 8' KG./HOJA	4' X 10' KG./HOJA	KG./M2
8	4.176	0.164	74.85	93.56	99.80	124.75	33.57
9	3.797	0.150	68.05	85.06	90.73	113.42	30.52
10	3.416	0.135	61.23	76.54	81.64	102.05	27.46
11	3.038	0.120	54.43	68.03	72.57	90.71	24.41
12	2.657	0.105	47.63	59.53	63.5	79.38	21.36
13	2.278	0.09	40.82	51.02	54.43	68.03	18.3
14	1.897	0.075	34.02	42.53	45.37	56.71	15.26

ROLADA EN FRÍO

DEL CAL. 16 AL 30

CAL.	ESPESOR EN MM.	ESPESOR EN PULGADAS	3' X 8' KG./HOJA	3' X 10' KG./HOJA	4' X 8' KG./HOJA	4' X 10' KG./HOJA	KG./M2
16	1.519	0.06	27.21	34.01	36.28	45.35	12.2
18	1.214	0.048	21.77	27.21	29.03	36.28	9.76
20	0.912	0.036	16.33	20.41	21.77	27.21	7.32
22	0.760	0.03	13.60	17.01	18.14	22.68	6.1
24	0.607	0.024	10.89	13.6	14.52	18.13	4.88
26	0.455	0.018	8.17	10.21	10.88	13.6	3.66
28	0.379	0.015	6.8	8.51	9.07	11.32	3.05
30	0.305	0.012	5.44	6.8	7.25	9.07	2.44

ANTIDERRAPANTE

CAL.	ESPESOR EN PULG.	ESPESOR EN MM.	3' X 8' KG./ HOJA	3' X 10' KG./HOJA	4' X 8' KG./HOJA	4' X 10' KG./HOJA	KG./M2
16	0.06	1.52	--	40.82	--	54.43	14.63
14	0.075	1.9	40.44	51.02	54.5	68.03	18.29
12	0.105	2.66	--	71.44	--	95.25	25.61
1/8	0.125	3.2	--	83.69	--	111.59	30.02
3/16	0.188	4.8	--	118.39	--	157.85	42.47
1/4	0.25	6.4	--	153.09	--	204.12	54.91

PLACA DE GRADO

ESPESOR		PESO TEÓRICO		PESO POR PLACA EN KILOS								
PULG.	MM.	KG./PIE2	KG./M2	3' X 6'	3' X 8'	3' X 10'	4' X 8'	4' X 10'	5' X 10'	5' X 20'	6' X 20'	8' X 20'
3/16	4.8	3.52	37.84	63	84	105	112	140	176	352	422	562
1/4	6.4	4.68	50.38	84	112	140	150	187	234	468	562	749
5/16	7.9	5.85	62.93	105	140	176	187	234	293	585	702	936
3/8	9.5	7.02	75.57	126	168	211	225	281	351	702	842	1123
7/16	11.1	8.18	88.10	147	197	246	262	328	410	819	983	1310
1/2	12.7	9.36	100.77	168	225	281	300	374	468	936	1123	1498
9/16	14.3	10.52	113.27	190	253	316	337	421	527	1053	1264	1685
5/8	15.9	11.70	125.96	211	281	351	374	468	585	1170	1404	1872
3/4	19.1	14.04	151.15	253	337	421	449	562	702	1404	1685	2246
7/8	22.2	16.38	176.34	295	393	491	524	655	819	1638	1966	2621
1	25.4	18.72	201.53	337	449	562	599	749	936	1872	2247	2996
1 1/8	28.6	21.06	226.72	379	505	632	674	842	1053	2106	2528	3370
1 1/4	31.8	23.40	251.92	421	562	702	749	936	1170	2340	2808	3745
1 1/2	38.1	28.08	302.30	505	674	842	899	1123	1404	2808	3370	4493
1 3/4	44.5	32.76	352.69	590	786	983	1048	1310	1638	3276	3932	5242
2	50.8	37.45	403.07	674	899	1123	1198	1498	1872	3745	4494	5991
2 1/4	57.2	42.13	453.45	758	1011	1264	1348	1685	2106	4213	5055	6740
2 1/2	63.5	46.81	503.83	842	1123	1404	1498	1872	2340	4681	5617	7489
3	76.2	56.17	604.60	1011	1348	1685	1797	2246	2808	5617	6740	8987
3 1/2	88.9	64.76	697.13	1179	1572	1966	2097	2621	3276	6552	7862	10483
4	101.6	74.02	796.72	1348	1797	2246	2396	2995	3744	7488	8986	11981

LÁMINA GALVANIZADA Y PINTADA

Tabla de pesos por metro lineal y peso por hoja en kilogramos.

CAL.	ESPESOR		KG./METRO LINEAL		PESO POR HOJA EN KILOGRAMOS					
	MM.	PULG.	91 CM. 3' (ANCHO)	122 CM. 4' (ANCHO)	1.83 M. 3' X 6'	2.44 M. 3' X 8'	3.05 M. 3' X 10'	3.66 M. 3' X 12'	2.44 M. 4' X 8'	3.05 M. 4' X 10'
10	3.454	0.136	24.77		45.33	60.44	75.55	90.66		
12	2.695	0.106	19.32	25.76	35.36	47.14	58.93	70.71	62.85	78.57
14	1.935	0.076	13.87	18.5	25.38	33.84	42.3	50.76	45.14	56.42
16	1.557	0.061	11.15	14.87	20.4	27.21	34.01	40.81	36.28	45.35
18	1.252	0.049	8.97	11.96	16.42	21.89	27.36	32.83	29.18	36.48
20	0.95	0.037	6.8	9.06	12.44	16.59	20.74	24.89	22.11	27.63
22	0.798	0.031	5.7	7.6	10.43	13.91	17.39	20.86	18.54	23.18
24	0.569	0.022	4.06	5.42	7.43	9.91	12.38	14.86	13.22	16.53
26	0.493	0.019	3.52	4.69	6.44	8.59	10.74	12.88	11.44	14.3
28	0.417	0.016	2.87	3.96	5.44	7.25	9.06	10.87	9.66	12.08
30	0.343	0.014	2.44		4.47	5.95	7.44	8.93		
32	0.285	0.011	1.88		3.44	4.59	5.73	6.88		

CAL.	KILOGRAMO POR METRO LINEAL								
	4" RN- 100/35	3" R-72	4" R-101	4" R-90	3" SECC. 4	ANCHO ESP. SSR-3/24	3" HR	4" HR-90	4" QL-99
18					12.59		12.61	12.09	13.67
20		6.8			9.54		9.56	9.16	10.35
22	7.6	7.91	7.6	8.44	8	7.62	8.01	7.68	8.69
24	5.41	5.64	5.42	6.02	5.7	5.42	5.71	5.48	6.19
26	4.69	4.89	4.69	5.21		4.69			
28		4.12	3.96						
30									

MATERIALES PARA CONSTRUCCIÓN

VARILLA CORRUGADA

VARILLA No.	MM.	PULG.	KG./ML.
2.5	7.9	5/16	0.384
3	9.5	3/8	0.557
4	12.7	1/2	0.996
5	15.9	5/8	1.56
6	19.1	3/4	2.25
8	25.4	1	3.975
10	31.8	1 1/4	6.225
12	38.1	1 1/2	8.938

ALAMBRE DE PÚAS GALVANIZADO

PESO (KG.)	LARGO	CALIBRE	PUAS PUNTAS
30	325M	12.5	4
34	360M	12.5	4
30	360M	12.5	2
17	340M	15.5	4

MALLA

MALLA Y CALIBRE DE ALAMBRE	M.M.	PULG.	AREA DE ACERO EN CM2/M	PESO KGS./M2.
6 X 6 - 4/4	5.72	0.225	1.697	2.729
6 X 6 - 6/6	4.88	0.192	1.23	1.982
6 X 6 - 8/8	4.11	0.162	0.872	1.412
6 X 6 - 10/ 10	3.45	0.105	0.615	0.982

ESCALERILLA

	PESO	LONGITUD	SECCIÓN DE CONCRETO
10-2	.49	3	10
12-2	.51	3	12
15-2	.53	3	15

ALAMBRE RECOCIDO

CAL.	MM.	MTS. X KG.
16	1.65	50

ALAMBRÓN

M.M.	PULG.	KG./MT.
6.3	1/4	0.248

En rollo de 1.5 a 2 tons.

ARMEX

ESTILO	SECCIÓN DE CONCRETO (CM)	SECCIÓN DE LA ARMADURA (CM)	PESO POR TRAMO KG.	
			TIPO I	TIPO II
10-1 0-3	10 x 10	6 X 6	5.5	
12-1 2-3	12 x 12	8 X 8	5.7	
12-1 2-4	12 x 12	8 X 8	7.53	
12-2 0-4	12 x 20	8 X 15	8.12	
15-1 0-4	15 x 10	10 X 6	7.53	
15-1 5-3	15 x 15	10 X 10	6.04	
15-1 5-4	15 x 15	10 X 10	7.92	11.51
15-2 0-4	15 x 20	10 X 15	8.32	11.95
15-2 5-4	15 x 25	10 X 20	8.71	12.4
15-3 0-4	15 x 30	10 X 25	9.11	12.84