

## LAMINA NEGRA LISA

CALIBRE	ESPESOR		KG/HOJA							PESO
	Pulgada	mm.	3' X 8'	3' X 10'	4' X 8'	4' X 10'	5' X 10'	5' X 20'	6'	Kg/m2
7	0.180	4.572	81	101	108	135	-----	-----	-----	36.27
8	0.165	4.191	74	93	99	124	155	309	-----	33.25
9	0.150	3.810	67	84	90	112	-----	-----	-----	30.23
10	0.135	3.429	61	76	81*	101*	126	253	-----	27.20
11	0.120	3.048	54	67	72*	90*	112	225	LE**	24.18
12	0.105	2.667	47	59	63*	79*	98	197	-----	21.16
13	0.090	2.286	40	51	54	67	-----	-----	-----	18.14
14	0.075	1.905	34	42	45*	56*	70	140	-----	15.11
16	0.060	1.524	-----	-----	36	45	-----	-----	-----	12.09
18	0.048	1.219	-----	-----	29	36	-----	-----	-----	9.67
20	0.036	0.914	-----	-----	22	27	-----	-----	-----	7.25

## LAMINA ANTIDERRAPANTE

CALIBRE	ESPESOR		KG/HOJA				PESO
	Pulgada	mm.	3' X 10'	4' X 10'	5' X 10'	5' X 20'	Kg/m2
16	0.060	1.524	-----	45	-----	-----	12.09
14	0.075	1.905	51	68	-----	-----	18.31
12	0.105	2.667	71	95	-----	-----	25.63
1/8	0.125	3.175	84	112	139	279	30.02
3/16	0.187	4.750	118	158	197	395	42.47
1/4	0.250	6.350	153	204	255	510	54.92
3/8	0.375	9.525	-----	297	-----	-----	79.82

## LAMINA GALVANIZADA LISA

CALIBRE	ESPESOR		KG/M LINEAL		PESO/HOJA (KG)			
	mm.	Pulgada	3'	4'	3' x 8'	3' x 10'	4' x 8'	4' x 10'
14	1.935	0.0762	13.87	18.50	34	42	45	56
16	1.557	0.0613	11.15	14.87	27	34	36	45
18	1.252	0.0493	8.97	11.96	22	27	29	36
20	0.950	0.0374	6.80	9.06	17	21	22	28
22	0.798	0.0314	5.70	7.60	14	17	19	23
24	0.569	0.0224	4.06	5.42	10	12	13	17
26	0.493	0.0194	3.52	4.69	9	11	11	14

## PLACAS

ESPESOR		PESO		PESOS POR PLACA EN KILOS												
Pulgada	mm.	Kg/m2	Kg/pie2	3' X 6'	3' X 8'	3' X 10'	4' X 8'	4' X 10'	5' X 10'	5' X 20'	6' X 20'	6' X 40'	8' X 20'	8' X 40'	10' X 40'	
3/16	0.187	4.8	37.78	4	---	*84	105	*112	140	176	351	421	---	562	1,123	---
1/4	0.250	6.3	50.38	5	---	*112	140	*150	187	234	468	562	---	749	---	---
5/16	0.312	7.9	62.97	6	---	*140	176	*187	234	293	585	702	---	936	---	---
3/8	0.375	9.5	75.56	7	---	*168	211	*225	281	351	702	842	1,685	1,123	2246	2,808
7/16	0.437	11.1	88.05	8	---	---	*246	---	---	---	---	*983	---	---	---	---
1/2	0.500	12.7	100.75	9	---	*225	281	*300	374	468	936	1,123	2,246	1,498	2,995	3,744
9/16	0.562	14.3	113.24	11	---	---	*316	---	---	---	---	1,264	---	---	---	---
5/8	0.625	15.9	125.94	12	211	281	351	374	468	585	1,170	1,404	2,808	1,872	3,744	4,680
3/4	0.750	19.0	151.12	14	253	337	421	449	562	702	1,404	1,685	3,370	2,246	4,493	5,616
7/8	0.875	22.2	176.31	16	---	---	*491	---	---	---	---	1,966	---	2,621	---	---
1	1	25.4	201.50	19	337	449	562	599	749	936	1,872	2,246	4,493	2,995	5,990	7,488
1 1/8	1.125	28.6	226.69	21	---	---	632	---	---	---	---	2,527	---	3,370	6,739	---
1 1/4	1.250	31.7	251.88	23	---	562	702	749	936	1,170	2,340	2,808	5,616	3,744	7,488	---
1 3/8	1.375	34.9	277.06	26	---	---	---	---	---	---	---	---	---	4,118	---	---
1 1/2	1.500	38.1	302.25	28	---	674	842	899	1,123	1,404	2,808	3,370	---	4,493	8,986	---
1 5/8	1.625	41.3	327.44	30	---	---	---	---	---	---	---	---	---	4,867	---	---
1 3/4	1.750	44.4	352.62	33	---	---	983	---	---	1,872	---	3,931	---	5,242	---	---
2	2	50.8	403.00	37	---	899	1,123	1,198	1,498	---	3,744	4,493	---	5,990	11,981	---
2 1/4	2.250	57.1	453.38	42	---	---	1,264	---	1,685	---	---	5,054	---	6,739	---	---
2 1/2	2.500	63.5	503.75	47	---	---	1,404	---	1,872	---	---	5,616	---	7,488	---	---
2 3/4	2.750	69.8	554.12	51	---	---	---	---	---	---	---	---	---	8,237	---	---
3	3	76.2	604.50	56	---	---	1,685	---	2,246	---	---	6,739	---	8,986	---	---
3 1/2	3.500	88.9	705.25	66	---	---	---	---	---	---	6,552	7,935	---	10,483	---	---
4	4	101.6	806.00	75	---	---	---	---	---	---	7,448	9,069	---	11,981	---	---
4 1/2	4.500	114.3	906.75	84	---	---	---	---	---	---	---	---	---	13,478	---	---
5	5	127.0	1,007.50	94	---	---	---	---	---	---	---	11,232	---	14,976	---	---
5 1/2	5.500	139.7	1,108.25	103	---	---	---	---	---	---	---	12,355	---	16,474	---	---
6	6	152.4	1,209.20	112	---	---	---	---	---	---	---	13,478	---	---	---	---

## SOLERA EN SLITTER

Pulgada		mm.		Kg/m
1/8"	x 1/2"	3.2	x 12.7	0.32
	x 3/4"		x 19.0	0.47
	x 1"		x 25.4	0.63
	x 1 1/4"		x 31.7	0.79
	x 1 1/2"		x 38.1	0.95
	x 2"		x 50.8	1.27
	x 2 1/2"		x 63.5	1.58
	x 3"		x 76.2	1.9
	x 4"		x 101.6	2.54
	x 6"		x 152.4	3.63
3/16"	x 1/2"	4.8	x 12.7	0.47
	x 3/4"		x 19.0	0.71
	x 1"		x 25.4	0.95
	x 1 1/4"		x 31.7	1.19
	x 1 1/2"		x 38.1	1.42
	x 2"		x 50.8	1.9
	x 2 1/2"		x 63.5	2.38
	x 3"		x 76.2	2.84
	x 4"		x 101.6	3.8
	x 6"		x 152.4	5.68
1/4"	x 1"	6.3	x 25.4	1.27
	x 2"		x 50.8	2.53

## ANGULO LADOS IGUALES

Ángulos a 6.10 mts. (20 pies)

ESPEJOR	ANCHO	ESPEJOR	ANCHO	PESO
PULGADA		MM.		KG/M
.109	x1	2.8	x 25.4	1.05
	x1 1/4		x 31.7	1.33
	x1 1/2		x 38.1	1.61
1/8	x 3/4	3.2	x 19.0	0.80
	x 1		x 25.4	1.19
	x1 1/4		x 31.7	1.50
	x1 1/2		x 38.1	1.83
3/16	x2	4.8	x 50.8	2.46
	x1		x 25.4	1.73
	x1 1/4		x 31.7	2.20
	x1 1/2		x 38.1	2.68
	x1 3/4		x 44.4	3.15
	x2		x 50.8	3.63
	x2 1/2		x 63.5	4.57
1/4	x3	6.3	x 76.2	5.52
	x1		x 25.4	2.22
	x1 1/4		x 31.7	2.86
	x1 1/2		x 38.1	3.48
	x2		x 50.8	4.75
	x2 1/2		x 63.5	6.10
	x3		x 76.2	7.29
5/16	x4	7.9	x 101.6	9.82
	x3		x 76.2	9.08
	x4		x 101.6	12.20
3/8	x2	9.5	x 50.8	6.99
	x2 1/2		x 63.5	8.78
	x3		x 76.2	10.71
	x4		x 101.6	14.58
	x5		x 127.0	18.30
	x6		x 152.4	22.17
1/2	x3	12.7	x 76.2	13.99
	x4		x 101.6	19.05
	x5		x 127.0	25.12
	x6		x 152.4	29.16

Se manejan en Acero A-36 ó A-529°50

## SOLERA MOLINO

Pulgada		mm.	Kg/m	
1/8	x 1/2	3.2	x 12.7	0.32
	x 3/4		x 19.0	0.47
	x 1		x 25.4	0.63
	x 1 1/4		x 31.7	0.79
	x 1 1/2		x 38.1	0.95
	x 2		x 50.8	1.27
	x 2 1/2		x 63.5	1.58
	x 3		x 76.2	1.90
	x 4		x 101.6	2.54
	3/16	x 1/2	4.8	x 12.7
x 3/4			x 19.0	0.71
x 1			x 25.4	0.95
x 1 1/4			x 31.7	1.19
x 1 1/2			x 38.1	1.42
x 2			x 50.8	1.90
x 2 1/2			x 63.5	2.38
x 3			x 76.2	2.84
x 4			x 101.6	3.80
x 6			x 152.4	5.68
1/4	x 8		x 203.2	7.60
	x 1/2	6.3	x 12.7	0.633
	x 3/4		x 19.0	0.95
	x 1		x 25.4	1.27
	x 1 1/4		x 31.7	1.58
	x 1 1/2		x 38.1	1.90
	x 2		x 50.8	2.53
	x 2 1/2		x 63.5	3.17
	x 3		x 76.2	3.79
	x 4		x 101.6	5.06
3/8	x 5		x 127.0	6.32
	x 6		x 152.4	7.59
	x 8		x 203.2	10.13
	x 10		x 254.0	12.66
	x 12		x 304.8	15.18
	x 1	9.5	x 25.4	1.90
	x 1 1/4		x 31.7	2.38
	x 1 1/2		x 38.1	2.84
	x 2		x 50.8	3.79
	x 2 1/2		x 63.5	4.75
1/2	x 3		x 76.2	5.70
	x 4		x 101.6	7.59
	x 5		x 127.0	9.49
	x 6		x 152.4	11.40
	x 8		x 203.2	15.18
	x 10		x 254.0	18.99
	x 12		x 304.8	22.80

Soleras a 6.10 mts. (20 pies)

Pulgada		mm.	Kg/m	
1/2	x 1	12.7	x 25.4	2.53
	x 1 1/2		x 38.1	3.79
	x 2		x 50.8	5.06
	x 2 1/2		x 63.5	6.32
	x 3		x 76.2	7.59
	x 4		x 101.6	10.13
	x 5		x 127.0	12.66
	x 6		x 152.4	15.18
	x 8		x 203.2	20.24
	x 10		x 254.0	25.33
	x 12		x 304.8	30.36
	5/8	x 3	15.9	x 76.2
x 4			x 101.6	12.66
x 5			x 127.0	15.83
x 6			x 152.4	18.99
x 8			x 203.2	25.33
x 10			x 254.0	31.66
3/4	x 12		x 304.8	37.97
	x 1 1/2	19.0	x 38.1	5.70
	x 2		x 50.8	7.59
	x 2 1/2		x 63.5	9.49
	x 3		x 76.2	11.40
	x 4		x 101.6	15.18
1	x 5		x 127.0	18.99
	x 6		x 152.4	22.80
	x 8		x 203.2	30.36
	x 10		x 254.0	37.97
	x 12		x 304.8	45.59
	x 2	25.4	x 50.8	10.13
	x 3		x 76.2	15.18
	x 4		x 101.6	20.27
	x 6		x 152.4	30.36
	x 8		x 203.2	40.53
x 10		x 254.0	50.65	
x 12		x 304.8	60.71	

## VARILLA REDONDA Y CUADRADA

Pulgada	mm.	Redondos (Kg/m)	Cuadrados (Kg/m)
3/8*	9.5	0.56	0.71
12 mm*	12.0	-----	1.20
1/2*	12.7	0.99	1.27
5/8*	15.9	1.55	1.98
3/4	19.0	2.24	2.85
7/8	22.2	3.04	-----
1	25.4	3.98	5.06
1 1/8	28.6	5.03	-----
1 1/4	31.7	6.21	-----
1 1/2	38.1	8.95	11.39
1 3/4	44.4	12.18	-----
2	50.8	15.91	20.25
2 1/2	63.5	24.85	-----

## SEMIFLECHA

Pulgada	mm.	Kg/m
3/16	4.8	0.14
1/4	6.3	0.25
5/16	7.9	0.39
3/8	9.53	0.56

## REJILLA IRVING

TAMAÑO DE SOLERA		PESO	CLARO MAXIMO CON CARGA HUMANA	CLARO MAXIMO CON EQUIPO PESADO
Pulgada	mm.	Kg/m <sup>2</sup>	m.	m.
1/8 x 1	3.2 x 25.4	25.50	1.29	-----
1/8 x 1 1/4	3.2 x 31.7	31.16	1.63	-----
3/16 x 1	4.8 x 25.4	36.83	1.50	0.20
3/16 x 1 1/4	4.8 x 31.7	45.17	1.70	0.25

Se maneja en 1 X 6 mts.

## POLIN TIPO C

Medida	Dimensiones	Kg/m	Largo (m)	Pzas. x Paquete	Peso x Paquete
3" Cal 14	3" x 1 1/2"	2.61	6	60	940
3" Cal 16	3" x 1 1/2"	2.08	6	60	749
4" Cal 14	4" x 2"	3.4	6	48	979
4" Cal 16	4" x 2"	2.71	6	48	780
5" Cal 14	5" x 2"	3.8	6	48	1094
6" Cal 12	6" x 2"	5.86	6	48	1688
6" Cal 14*	6" x 2"	4.19	6	48	1207
8" Cal 10	8" x 2 3/4"	9.9	8	24	1901
8" Cal 12	8" x 2 3/4"	7.96	8	24	1528
8" Cal 14*	8" x 2 3/4"	5.7	6	24	821
8" Cal 14	8" x 2 3/4"	5.7	8	24	1094
10" Cal 10	10" x 2 3/4"	11.2	10	16	1792
10" Cal 12	10" x 2 3/4"	9.06	10	16	1450
10" Cal 14***	10" x 2 3/4"	6.49	10	16	1038
10" Cal 14**	10" x 3 1/2"	6.85	10	16	1096
12" Cal 10	12" x 3 1/2"	13.6	12	12	1958
12" Cal 12	12" x 3 1/2"	10.99	12	12	1583
12" Cal 14	12" x 3 1/2"	7.87	12	12	1133
14" Cal 12	14" x 3. 1/2"	12.1	14	12	2033
14" Cal 14	14" x 3. 1/2"	8.7	14	12	1462

## PTR

DIMENSIONES EXTERIORES		ESESOR		CALIBRE	Kg/m	Largo (m)	PZA. X PAQUETE	PESO PAQUETE
Pulgada	mm.	Pulgada	mm.					
1/2" x 1/2"	13 x 13	0.036	0.9	20	0.34	6.00	231	471
		0.048	1.2	18	0.44	6.00	231	610
5/8" x 5/8"	16 x 16	0.036	0.9	20	0.43	6.00	252	650
		0.048	1.2	18	0.56	6.00	252	847
3/4" X 3/4"	19 x19	0.036	0.9	20	0.52	6.00	121	378
		0.048	1.2	18	0.68	6.00	121	494
		0.060	1.5	16	0.84	6.00	121	610
		0.075	1.9	14	1.02	6.00	121	741
1" x 1/2"	25 x 13	0.048	1.2	18	0.68	6.00	120	490
		0.036	0.9	20	0.70	6.00	100	420
		0.048	1.2	18	0.92	6.00	100	552
		0.060	1.5	16	1.14	6.00	100	684
1" X 1"	25 x 25	0.075	1.9	14	1.40	6.00	100	840
		0.090	2.3	13	1.65	6.00	100	990
		0.105	2.7	12	1.90	6.00	100	1140
		0.120	3	11	1.94	6.00	100	1164
1 1/4" X 3/4"	32 x 19	0.135	3.4	10	2.12	6.00	100	1272
		0.036	0.9	20	0.70	6.00	99	416
1 1/4" X 1 1/4"	32 x 32	0.048	1.2	18	0.92	6.00	99	546
		0.036	0.9	20	0.88	6.00	81	428
		0.048	1.2	18	1.16	6.00	81	564
		0.060	1.5	16	1.44	6.00	100	864
1 1/2" x 1/2"	38 x 13	0.075	1.9	14	1.78	6.00	100	1068
		0.105	2.7	12	2.42	6.00	100	1452
		0.036	0.9	20	0.70	6.00	98	412
		0.048	1.2	18	0.92	6.00	98	541
1 1/2" x 1"	38 x25	0.036	0.9	20	0.88	6.00	84	312
		0.048	1.2	18	1.16	6.00	84	412
		0.060	1.5	16	1.44	6.00	100	1044
		0.075	1.9	14	1.78	6.00	84	826
1 1/2" X 1 1/2"	38 x 38	0.120	3	11	2.55	6.00	63	1133
		0.036	0.9	20	1.06	6.00	49	1210
		0.048	1.2	18	1.40	6.00	49	1455
		0.060	1.5	16	1.74	6.00	100	444
1 1/2" X 1 1/2"	38 x 38	0.075	1.9	14	2.15	6.00	64	585
		0.105	2.7	12	2.95	6.00	64	318
		0.120	3	11	3.15	6.00	64	420
		0.150	3.8	9	3.79	6.00	64	1032
1 3/4" X 3/4"	44 x 19	0.036	0.9	20	0.88	6.00	84	1512
		0.048	1.2	18	1.16	6.00	84	726

2" X 1"	51 x 25	0.036	0.9	20	1.06	6.00	50	902				
		0.048	1.2	18	1.40	6.00	50	1117				
		0.075	1.9	14	2.15	6.00	80	1540				
		0.120	3	11	3.15	6.00	80	1674				
		2" x 2"	51 x 51	0.048	1.2	18	1.89	6.00	64	1859		
				0.060	1.5	16	2.35	6.00	64	2039		
				0.075	1.9	14	2.91	6.00	64	1412		
				0.105	2.7	12	4.01	6.00	64	1766		
				0.120	3	11	4.36	6.00	64	350		
				0.135	3.4	10	4.84	6.00	64	462		
2 1/4" X 3/4"	57 x 19	0.150	3.8	9	5.31	6.00	64	434				
		0.180	4.6	7	6.43	6.10	36	573				
		0.250	6.3	1/4"	8.04	6.10	36	838				
		0.036	0.9	20	1.06	6.00	55	925				
		0.048	1.2	18	1.40	6.00	55	1095				
		2 1/2" X 1 1/4"	64 x 32	0.036	0.9	20	1.34	6.00	54	1203		
				0.048	1.2	18	1.77	6.00	54	1339		
		2 1/2" x 1 1/2"	64 x 38	0.075	1.9	14	2.91	6.00	48	1831		
				0.075	1.9	14	3.67	6.00	42	2321		
		2 1/2" X 2 1/2"	64 x 64	0.105	2.7	12	5.07	6.00	36	464		
0.120	3			11	5.57	6.00	36	895				
0.135	3.4			10	6.20	6.00	36	1382				
0.180	4.6			7	8.34	6.10	36	2058				
3" X 1"	76 x 25			0.250	6.3	1/4"	10.57	6.10	36	1079		
				0.048	1.2	18	1.89	6.00	48	1404		
3" X 1 1/2"	76 x 38			0.060	1.5	16	2.35	6.00	48	1562		
				0.075	1.9	14	2.91	6.00	48	1831		
				0.120	3	11	4.36	6.00	48	2321		
				0.135	3.4	10	4.84	6.00	48	1131		
		3" X 2"	76 x 51	0.036	0.9	20	1.61	6.00	48	1489/ 2978		
				0.048	1.2	18	2.13	6.00	70	1270		
		3" X 3"	76 x 76	0.075	1.9	14	3.29	6.00	70	1562		
				0.120	3	11	4.90	6.00	70	1998/ 3196		
				0.075	1.9	14	3.67	6.00	49	1755		
				0.120	3	11	5.57	6.00	42	1502		
0.135	3.4			10	6.20	6.00	42	1851				
3 1/2" X 3 1/2"	89 x 89			0.180	4.6	7	8.34	6.10	36	1525 / 3051		
				0.250	6.3	1/4"	10.57	6.10	36	848		
				0.075	1.9	14	4.42	6.00	42	1061		
				0.120	3	11	6.78	6.10 / 12.20	36	1302		
				0.150	3.8	9	8.33	6.10	25	1599		
		0.180	4.6	7	10.24	6.10	25	1749				
0.250	6.3	1/4"	13.10	6.10 / 12.20	25/20	1602 / 3204						
4" X 1 1/2"	102 x 38	0.075	1.9	14	4.04	6.00	35	848				
		0.075	1.9	14	4.42	6.00	40	1061				
		0.120	3	11	6.78	6.00	32	1302				
		0.150	3.8	9	8.33	6.00	32	1599				
4" X 2"	102 x 51	0.180	4.6	7	10.24	6.10	28	1749				
		0.250	6.3	1/4"	13.13	6.10 / 12.20	20	1602 / 3204				
		0.075	1.9	14	5.18	6.00	42	1328				
		0.120	3	11	7.99	6.10	30	1462				
		4" X 3"	102 x 76	0.150	3.8	9	9.85	6.10 / 12.20	25	1502 / 3004		
				0.180	4.6	7	12.14	6.10	20	1481		
				0.250	6.3	1/4"	15.63	6.10 / 12.20	16	1525 / 3051		
				0.075	1.9	14	5.93	6.00	30	1085		
				4" X 4"	102 x 102	0.125	3.2	1/8"	9.21	6.10 / 12.20	30/20	1685 / 2247
						0.150	3.8	9	11.36	6.10	25	1732
5" x 2"	127 x 51	0.187	4.7	3/16"	14.04	6.10 / 12.20	25/20	2141 / 3426				
		0.250	6.3	1/4"	18.16	6.10 / 12.20	16	1772 / 3545				
		0.120	3	11	7.99	6.10	20	975				
		0.180	4.6	7	12.14	6.10	20	1481				
5" X 3"	127 x 76	0.075	1.9	14	5.93	6.00	35	1266				
		0.125	3.2	1/8"	9.21	6.10 / 12.20	35	1966 / 3933				
		0.187	4.7	3/16"	14.03	6.10 / 12.20	24	2054 / 4108				
		0.250	6.3	1/4"	18.16	6.10 / 12.20	18	1994 / 3988				
		5" x 5"	127 x 127	0.125	3.2	1/8"	11.63	6.10 / 12.20	20/16	1419 / 2270		
				0.187	4.7	3/16"	17.85	6.10 / 12.20	16	1742 / 3484		
6" x 2"	152 x 51	0.250	6.3	1/4"	23.22	6.10 / 12.20	12	1700 / 3400				
		0.075	1.9	14	5.93	6.00	16	579				
		0.125	3.2	1/8"	9.21	6.10 / 12.20	16	899 / 1798				
		0.187	4.7	3/16"	14.03	6.10 / 12.20	16	1369 / 2739				
		0.250	6.3	1/4"	18.16	6.10 / 12.20	16	1772 / 3545				
		6" x 4"	152 x 102	0.125	3.2	1/8"	11.63	6.10 / 12.20	20/12	1419 / 1703		
0.187	4.7			3/16"	17.85	6.10 / 12.20	20/16	2178 / 3484				
0.250	6.3			1/4"	23.22	6.10 / 12.20	12	1700 / 3399				

## PTR GALVANIZADA

DIMENSIONES EXTERIORES		ESPESOR		CALIBRE	Kg/m	Largo (m)	PZA. X PAQUETE	PESO PAQUETE
Pulgada	mm.	Pulgada	mm.					
3/4" X 3/4"	19 x 19	0.036	0.9	20	0.52	6.00	121	378
		0.048	1.2	18	0.68	6.00	121	494
1" x 1/2"	25 x 13	0.048	1.2	18	0.68	6.00	120	490
		0.036	0.9	20	0.70	6.00	100	420
1" x 1"	25 x 25	0.048	1.2	18	0.92	6.00	100	552
		0.036	0.9	20	0.70	6.00	99	416
1 1/4" x 3/4"	32 x 19	0.036	0.9	20	0.88	6.00	81	428
1 1/4" x 1 1/4"	32 x 32	0.048	1.2	18	1.16	6.00	81	564
1 1/2" x 1 1/2"	38 x 38	0.036	0.9	20	1.06	6.00	49	312
		0.048	1.2	18	1.40	6.00	49	412
1 3/4" x 3/4"	44 x 19	0.036	0.9	20	0.88	6.00	84	444
		0.036	0.9	20	1.06	6.00	50	318
2 1/4" X 3/4"	57 x 19	0.048	1.2	18	1.40	6.00	50	420
		0.036	0.9	20	1.06	6.00	55	350

## HSS

DIMENSIONES EXTERIORES		ESPESOR		PESO	
Pulgada	mm.	Pulgada	mm.	Kg/m	Kg/pza.
4" x 4"	102 x 102	0.312	7.9	22.13	270
		0.375	9.5	25.73	314
5" x 5"	127 x 127	0.312	7.9	28.52	348
		0.375	9.5	33.44	408
6" x 4"	152 x 102	0.312	7.9	28.52	348
		0.375	9.5	33.44	408
6" x 6"	152 x 152	0.187	4.7	21.63	264
		0.250	6.4	28.36	346
		0.312	7.9	34.75	424
		0.375	9.5	40.98	500
		0.500	12.7	52.45	640
8" x 3"	203 x 76	0.125	3.2	13.61	166
		0.187	4.7	20.00	244
8" x 4"	203 x 102	0.187	4.7	21.63	264
		0.250	6.4	28.36	346
		0.312	7.9	34.75	424
		0.375	9.5	40.98	500
		0.500	12.7	52.45	640
8" x 6"	203 x 152	0.250	6.4	33.44	408
		0.375	9.5	48.52	592
8" x 8"	203 x 203	0.187	4.7	29.34	358
		0.250	6.4	38.52	470
		0.312	7.9	47.54	580
		0.375	9.5	56.23	686
		0.500	12.7	72.78	888
10" x 4"	254 x 102	0.250	6.4	33.44	408
10" x 6"	254 x 152	0.187	4.7	29.34	358
		0.250	6.4	38.52	470
		0.375	9.5	56.23	686
		0.500	12.7	72.78	888
10" x 10"	254 x 254	0.187	4.7	36.88	450
		0.250	6.4	48.69	594
		0.312	7.9	60.16	734
		0.375	9.5	71.31	870
		0.500	12.7	92.96	1,134
12" x 6"	305 x 152	0.375	9.5	63.77	778
12" x 8"	305 x 203	0.250	6.4	48.69	594
		0.375	9.5	71.31	870
		0.500	12.7	92.96	1,134
12" x 12"	305 x 305	0.250	6.4	58.68	716
		0.312	7.9	72.79	888
		0.375	9.5	86.55	1,056
		0.500	12.7	113.27	1,382
		0.625	15.9	139.02	1,696
14" x 14"	356 x 356	0.312	7.9	85.40	1,042
		0.375	9.5	101.80	1,242
		0.500	12.7	133.61	1,630
		0.625	15.9	164.26	2,004
16" x 16"	406 x 406	0.312	7.9	98.03	1,196
		0.375	9.5	116.89	1,426
		0.500	12.7	153.77	1,876
		0.625	15.9	189.67	2,314



## TUBO REDONDO (CEDULA 30, 40, ESTRUCTURAL Y INDUSTRIAL)

DIÁMETRO NOMINAL		DIÁMETRO EXTERIOR		DIÁMETRO INTERIOR		CÉDULA / ESPESOR			PESO	LARGO (m)	PIEZAS X PAQ.	PESO PAQ.
Pulgada	mm.	Pulgada	mm.	Pulgada	mm.	Cédula	Calibre	mm.	Kg/m			
1/2"	13	0.840"	21.34	0.660"	16.76	30	14	1.91	0.91	6.00	169	923
				0.630"	16	40	12	2.77	1.22	6.00	91	666
				0.440"	11.18	ind	22	0.76	0.22	6.00	228	301
				0.428"	10.87	ind	20	0.91	0.26	6.00	228	355
5/8"	16	0.625	23.33	0.404"	10.26	ind	18	1.22	0.34	6.00	228	465
				0.565"	14.35	ind	22	0.76	0.28	6.00	216	362
				0.553"	14.05	ind	20	0.91	0.34	6.00	216	441
3/4"	19	1.050"	26.67	0.529"	13.44	ind	18	1.22	0.44	6.00	216	570
				0.900"	22.86	30	14	1.91	1.16	6.00	127	884
				0.840"	21.33	40	12	2.87	1.57	6.00	127	1196
1"	25	1.315"	33.4	0.690"	17.53	ind	22	0.76	0.34	6.00	186	379
				0.678"	17.22	ind	20	0.91	0.41	6.00	186	458
				0.654"	16.61	ind	18	1.22	0.53	6.00	186	591
				1.165"	29.59	30	14	1.91	1.47	6.00	127	1120
				1.049"	26.64	40	10	3.43	2.52	6.00	127	1920
				0.928"	23.57	ind	20	0.91	0.55	6.00	137	452
1 1/4"	32	1.660"	42.16	0.904"	22.96	ind	18	1.22	0.72	6.00	137	592
				0.880"	22.35	ind	16	1.52	0.89	6.00	137	732
				1.480"	37.59	30	13	2.29	2.24	6.00	91	1223
				1.380"	35.05	40	10	3.43	3.26	6.00	91	1780
				1.053"	26.75	ind	20	0.91	0.69	6.00	124	513
1 1/2"	38	1.900"	48.26	1.029"	26.14	ind	18	1.22	0.91	6.00	124	677
				1.005"	25.53	ind	16	1.52	1.13	6.00	124	840
				1.720"	43.69	30	13	2.29	2.58	6.00	61	944
				1.610"	40.89	40	9	3.81	4.16	6.00	61	1522
				1.428"	36.27	ind	20	0.91	0.84	6.00	95	478
				1.404"	35.66	ind	18	1.22	1.10	6.00	95	627
2"	51	2.375"	690.33	1.380"	35.05	ind	16	1.52	1.37	6.00	91	748
				1.350"	34.29	ind	14	1.91	1.69	6.00	91	923
				2.165"	54.99	30	12	2.67	3.77	6.00	44	995
				2.375"	60.33	40	9	3.81	5.29	6.00	44	1397
				1.928"	48.97	ind	20	0.91	1.12	6.00	67	450
				1.904"	48.36	ind	18	1.22	1.48	6.00	67	594
				1.880"	47.75	ind	16	1.52	1.84	6.00	61	673
2 1/2"	64	2.875"	72.02	1.856"	47.14	ind	14	1.91	2.29	6.00	61	838
				2.665"	67.69	30	12	2.67	4.61	6.10	24	675
				2.500"	63.5	40	0.187"	4.76	8.62	6.10	24	1262

## VIGA IPS

PERALTE		PESO		ANCHO DEL PATÍN		ESPESOR DEL ALMA	
PULGADA	MM.	KG/M	LB/FT	PULGADA	MM.	PULGADA	MM.
3	76.2	8.48	5.7	2.33	59	0.17	4
4	101.6	11.46	7.7	2.66	68	0.19	5
5	127.0	14.88	10.0	3.00	76	0.21	5
6	152.4	18.60	12.5	3.33	85	0.23	6
7.87	200.0	26.20	16.7	3.54	90	0.27	7
8	203.2	27.38	18.4	4.00	102	0.27	7

En largos de 6.10 y 12.20 mts. en acero A-36.

## CANALES

PERFIL		PESO		ANCHO DEL PATÍN		ESPESOR DEL PATÍN		ESPESOR DEL ALMA	
PULGADA	MM.	KG/M	LBS/FT	PULGADA	MM.	PULGADA	MM.	PULGADA	MM.
3	76.2	5.20	3.50	1.372	35	0.273	6.9	0.132	3.4
		6.10	4.10	1.410	36	0.273	6.9	0.170	4.3
4	101.6	6.70	4.50	1.584	40	0.296	7.5	0.125	3.2
		8.04	5.40	1.584	40	0.296	7.5	0.184	4.7
5	127.0	9.97	6.70	1.750	44	0.320	8.1	0.190	4.8
6	152.4	12.20	8.20	1.920	48	0.343	8.7	0.200	5.1
		15.63	10.50	2.034	51	0.343	8.7	0.314	8.0
		19.35	13.00	2.157	55	0.343	8.7	0.437	11.1
7	177.8	14.60	9.80	2.090	53	0.366	9.3	0.210	5.3
8	203.2	17.11	11.50	2.260	57	0.390	9.9	0.220	5.6
		20.46	13.75	2.343	59	0.390	9.9	0.303	7.7
		27.90	18.75	2.527	64	0.390	9.9	0.487	12.4
10	254.0	22.76	15.30	2.600	65	0.436	11.1	0.240	6.1
		29.76	20.00	2.739	69	0.436	11.1	0.379	9.6
		37.20	25.00	2.886	73	0.436	11.1	0.526	13.4
		44.64	30.00	3.033	76	0.436	11.1	0.673	17.1
12	304.8	30.80	20.70	2.942	74	0.501	12.7	0.282	7.2
		37.20	25.00	3.047	77	0.501	12.7	0.387	9.8
15	381.0	44.64	30.00	3.170	80	0.501	12.7	0.510	13.0
		50.40	33.90	3.400	86	0.650	16.5	0.400	10.2
		59.53	40.00	3.520	89	0.650	16.5	0.520	13.2
		74.50	50.00	3.716	94	0.650	16.5	0.716	18.2