

TUBERÍA GALVANIZADA

En cédulas comerciales: 20, 30, 40, 80.

En diámetro de 1/2"-6"

TUBERÍA ESTRUCTURAL CÉDULA 30 Y 40

En diámetros de 3/4"-6" Ced 30
1/2"-12" Ced 40



Diámetros de fabricación: 1/4"-36"
En cédulas comerciales: 20, 40, 80, STD, XH y XXH.
Tubería fabricada bajo diferentes Normas: A-53 / A-106 / API 5L.
Los grados para ASTM-53 y ASTM-106 son: Gr. A / Gr. B / Gr. C.
Los grados para API 5L son: Gr. B / X-42 / X-46 / X-52 / X-56 / X-60 / X-65 / X-70

Soldadura Longitudinal (ERW), Helicoidal (SSAW) y Doble Arco Sumergido (DSAW).

Tubería fabricada bajo diferentes Normas: ASTM-53 / API 5L.

Los grados para ASTM-53 son: Gr. A / Gr. B / Gr. C.

Los grados para API 5L son: Gr. B / X-42 / X-46 / X-52 / X-56 / X-60 / X-65 / X-70 / X-80.

Diámetros de fabricación: 1/4"- 80"

Fabricadas en cédulas comerciales y cualquier espesor deseado.





PESOS & DIMENSIONES

Estándar de Especificación		Aplicación		Requerimiento Químico					Requerimiento Físico		Otras Pruebas e Inspecciones
				C	Si	Mn	P	S	Esfuerzo de Tensión	Esfuerzo de Cedencia Mínimo	
ASTM A-53	Grado A	Tubería para Uso General	0.25 Máx	—	0.95 Máx	0.05 Máx	0.06 Máx	48,000 psi	30,000 psi	En caso de galvanizado se requiere Prueba de recubrimiento de zinc. Prueba hidrostática especificada respectivamente en su diámetro y grado.	
	Grado B		0.30 Máx	—	1.20 Máx	0.05 Máx	0.06 Máx	60,000 psi	35,000 psi		
ASTM A-53	Grado A-25	Tubería de Línea	0.21 Máx	—	0.30 Min / 0.60 Max	0.045 Máx	0.06 Máx	45,000 psi	25,000 psi		
			0.21 Máx	—	0.30 Min / 0.60 Max	0.045 Min / 0.080 Max	0.06 Máx	65,000 psi	25,000 psi		
	Grado A		0.21 Máx	—	0.90 Máx	0.04 Máx	0.05 Máx	48,000 psi	30,000 psi		
	Grado B		0.2 Máx c/ Cost. / 0.27 Máx s/ Cost.	—	1.15 Máx	0.04 Máx	0.05 Máx	60,000 psi	35,000 psi		
ASTM A-106	Grado A	Uso Especial para Condiciones Extremas	0.25 Máx	0.10 Min	0.27 Min / 0.93 Máx	0.048 Máx	0.0058 Máx	48,000 psi	30,000 psi		
	Grado B		0.30 Máx	0.10 Min	0.29 Min / 1.06 Máx	0.048 Máx	0.0058 Máx	60,000 psi	35,000 psi		
	Grado C		0.35 Máx	0.10 Min	0.29 Min / 1.06 Máx	0.048 Máx	0.0058 Máx	70,000 psi	40,000 psi		
ASTM A-252	Grado 1	Tubería para Pilotes y Estructuras	—	—	—	0.050 Máx	—	50,000 psi	30,000 psi		No Requiere de Prueba Hidrostática
	Grado 2		—	—	—	0.050 Máx	—	60,000 psi	35,000 psi		
	Grado 3		—	—	—	0.050 Máx	—	66,000 psi	45,000 psi		

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO	
	in	mm	in	mm		Lb/ft	Kg/m
⅜	0.405	10.3	0.035	0.89	5	0.14	0.21
			0.049	1.24	10	0.19	0.28
			0.068	1.73	40 STD	0.24	0.36
¼	0.540	13.7	0.095	2.41	80 XS	0.31	0.47
			0.049	1.24	5	0.26	0.38
			0.065	1.65	10	0.33	0.49
⅜	0.675	17.1	0.088	2.24	40 STD	0.43	0.63
			0.119	3.02	80 XS	0.54	0.80
			0.049	1.24	5	0.33	0.49
½	0.840	21.3	0.065	1.65	5 5S	0.54	0.80
			0.083	2.11	10 10S	0.67	1.00
			0.109	2.77	40 STD	0.85	1.27
¾	1.050	26.7	0.147	3.73	80 XS	1.09	1.62
			0.188	4.78	160	1.31	1.95
			0.294	7.47	XXS	1.72	2.55
1	1.315	33.4	0.065	1.65	5 5S	0.68	1.02
			0.083	2.11	10 10S	0.86	1.28
			0.113	2.87	40 STD	1.13	1.68
1¼	1.660	42.2	0.154	3.91	80 XS	1.48	2.20
			0.219	5.56	160	1.95	2.90
			0.308	7.82	XXS	2.44	3.64
1½	1.900	48.3	0.065	1.65	5 5S	0.87	1.29
			0.109	2.77	10 10S	1.41	2.09
			0.133	3.38	40 STD	1.68	2.50
1¾	2.125	54.0	0.179	4.55	80 XS	2.17	3.24
			0.250	6.35	160	2.85	4.24
			0.358	9.09	XXS	3.66	5.45
2	2.375	60.3	0.065	1.65	5 5S	1.28	1.90
			0.109	2.77	10 10S	2.09	3.11
			0.140	3.56	40 STD	2.27	3.39
2½	2.875	73.0	0.191	4.85	80 XS	3.00	4.46
			0.250	6.35	160	3.77	5.61
			0.382	9.70	XXS	5.22	7.77
3	3.500	88.9	0.065	1.65	5 5S	1.28	1.90
			0.109	2.77	10 10S	2.09	3.11
			0.145	3.68	40 STD	2.72	4.05
3½	4.125	105.1	0.200	5.08	80 XS	3.63	5.41
			0.281	7.14	160	4.86	7.24
			0.400	10.16	XXS	6.41	9.55

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPEJOR DE PARED		CÉDULA	PESO				
	in	in	mm	mm		Lb/ft	Kg/m			
2	2.375	60.3	0.065	1.65	5 5S	1.61	2.39			
			0.109	2.77	10 10S	2.64	3.93			
			0.154	3.91	40 STD	3.66	5.44			
			0.172	4.37		4.05	6.03			
			0.188	4.78		4.40	6.54			
			0.218	5.54	80 XS	5.03	7.48			
			0.250	6.35		5.68	8.45			
			0.281	7.14		6.29	9.36			
			0.344	8.74	160	7.47	11.12			
			0.436	11.07	XXS	9.04	13.45			
2½	2.875	73.0	0.083	2.11	5 5S	2.48	3.69			
			0.120	3.05	10 10S	3.53	5.26			
			0.203	5.16	40 STD	5.80	8.63			
			0.216	5.49		6.14	9.14			
			0.250	6.35		7.02	10.44			
			0.276	7.01	80 XS	7.67	11.41			
			0.375	9.53	160	10.02	14.92			
			0.552	14.02	XXS	13.71	20.40			
			3	3.500	88.9	0.083	2.11	5 5S	3.03	4.51
						0.120	3.05	10 10S	4.34	6.45
0.125	3.18					4.51	6.71			
0.156	3.96					5.58	8.30			
0.188	4.78					6.66	9.91			
0.216	5.49	40 STD				7.58	11.29			
0.250	6.35					8.69	12.93			
0.281	7.14					9.67	14.39			
0.300	7.62	80 XS				10.26	15.27			
0.438	11.13	160				14.34	21.34			
3½	4.000	101.6	0.083	2.11	5 5S	3.48	5.17			
			0.120	3.05	10 10S	4.98	7.41			
			0.125	3.18		5.18	7.71			
			0.156	3.96		6.41	9.54			
			0.188	4.78		7.66	11.40			
			0.226	5.74	40 STD	9.12	13.57			
			0.250	6.35		10.02	14.92			
			0.281	7.14		11.17	16.63			
			0.318	8.08	80 XS	12.52	18.63			
			0.636	16.15	XXS	22.87	34.04			
4	4.500	114.3	0.083	2.11	5 5S	3.92	5.83			
			0.120	3.05	10 10S	5.62	8.36			
			0.125	3.18		5.85	8.70			
			0.156	3.96		7.24	10.78			
			0.188	4.78		8.67	12.90			
			0.219	5.56		10.02	14.92			
			0.237	6.02	40 STD	10.80	16.07			
			0.250	6.35		11.36	16.90			
			0.281	7.14	60	12.67	18.86			
			0.312	7.92		13.97	20.79			
4½	5.000	127.0	0.247	6.27	40 STD	12.55	18.68			
			0.355	9.02	80 XS	17.63	26.23			
			0.710	18.03	XXS	32.56	48.46			

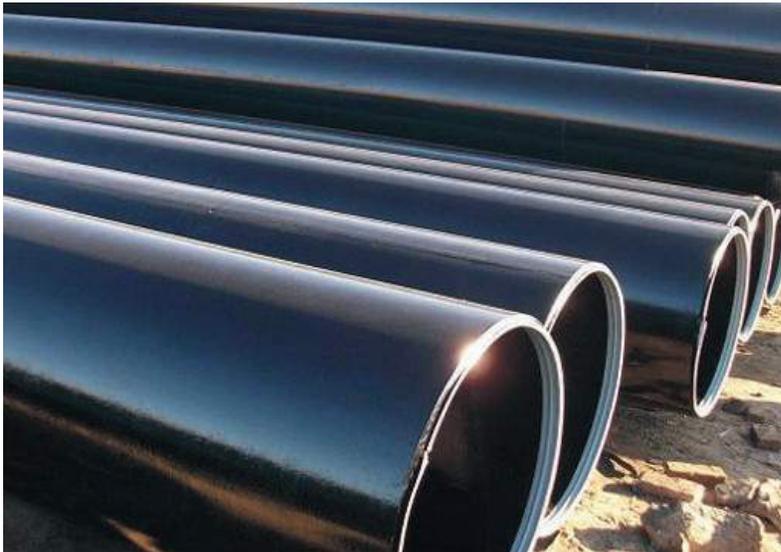
DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPEJOR DE PARED		CÉDULA	PESO	
	in	in	mm	mm		Lb/ft	Kg/m
5	5.563	141.3	0.109	2.77	5 5S	6.36	9.46
			0.125	3.18		7.27	10.81
			0.134	3.40	10 10S	7.78	11.57
			0.156	3.96		9.02	13.42
			0.188	4.78		10.80	16.08
			0.219	5.56		12.51	18.62
			0.258	6.55	40 STD	14.63	21.78
			0.281	7.14		15.87	23.61
			0.312	7.92		17.51	26.06
			0.344	8.74		19.19	28.56
6	6.625	168.3	0.375	9.53	80 XS	20.80	30.95
			0.500	12.70	120	27.06	40.28
			0.625	15.88	160	32.99	49.10
			0.750	19.05	XXS	38.59	57.43
			0.109	2.77	5 5S	7.59	11.30
			0.120	3.05		8.35	12.42
			0.125	3.18		8.69	12.93
			0.134	3.40	10 10S	9.30	13.84
			0.141	3.58		9.77	14.55
			0.149	3.78		10.32	15.35
7	7.625	193.7	0.156	3.96		10.79	16.06
			0.172	4.37		11.87	17.66
			0.188	4.78		12.94	19.25
			0.203	5.16		13.94	20.74
			0.219	5.56		15.00	22.32
			0.237	6.02		16.19	24.09
			0.250	6.35		17.04	25.36
			0.280	7.11	40 STD	18.99	28.27
			0.312	7.92		21.06	31.34
			0.344	8.74		23.10	34.38
8	8.625	219.1	0.375	9.53	80 XS	25.06	37.29
			0.432	10.97		28.60	42.56
			0.500	12.70		32.74	48.72
			0.562	14.27	120	36.43	54.21
			0.625	15.88		40.09	59.66
			0.719	18.26	160	45.40	67.56
			0.750	19.05		47.11	70.10
			0.864	21.95	XXS	53.21	79.19
			0.875	22.23		53.79	80.05
			0.301	7.65	STD	23.57	35.07
0.500	12.70	XS	38.09	56.68			
0.875	22.23	XXS	63.14	93.97			
8	8.625	219.1	0.105	2.67		9.56	14.23
			0.109	2.77	5 5S	9.92	14.77
			0.120	3.05		10.91	16.24
			0.125	3.18		11.36	16.90
			0.134	3.40		12.16	18.10
			0.141	3.58		12.79	19.03
			0.148	3.76	10 10S	13.41	19.96
			0.156	3.96		14.12	21.02
			0.164	4.17		14.83	22.08
			0.172	4.37		15.54	23.13
0.179	4.55		16.16	24.05			
0.188	4.78		16.96	25.24			
0.203	5.16		18.28	27.20			
0.219	5.56		19.68	29.29			

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO	
	in	mm	in	mm		Lb/ft	Kg/m
8	8.625	219.1	0.237	6.02		21.25	31.63
			0.250	6.35	20	22.38	33.31
			0.277	7.04	30	24.72	36.79
			0.312	7.92		27.73	41.26
			0.322	8.18	40 STD	28.58	42.54
			0.344	8.74		30.45	45.32
			0.375	9.53		33.07	49.22
			0.406	10.31	60	35.67	53.09
			0.438	11.13		38.34	57.05
			0.500	12.70	80 XS	43.43	64.63
			0.562	14.27		48.44	72.09
			0.594	15.09	100	51.00	75.90
			0.625	15.88		53.45	79.55
			0.719	18.26	120	60.77	90.44
			0.750	19.05		63.14	93.97
			0.812	20.62	140	67.82	100.93
			0.875	22.23	XXS	72.50	107.89
			0.906	23.01	160	74.77	111.26
1.000	25.40		81.52	121.31			
9	9.625	244.5	0.342	8.69	STD	33.94	50.51
			0.500	12.70	XS	48.78	72.59
10	10.750	273.1	0.134	3.40	5 5S	15.21	22.63
			0.141	3.58		15.99	23.80
			0.149	3.78		16.89	25.13
			0.156	3.96		17.67	26.29
			0.165	4.19	10 10S	18.67	27.79
			0.179	4.55		20.23	30.10
			0.188	4.78		21.23	31.59
			0.203	5.16		22.89	34.06
			0.219	5.56		24.66	36.69
			0.250	6.35	20	28.06	41.76
			0.279	7.09		31.23	46.48
			0.307	7.80	30	34.27	51.01
			0.312	7.92		34.82	51.81
			0.322	8.18		35.90	53.42
			0.344	8.74		38.27	56.95
			0.365	9.27	40 STD	40.52	60.31
			0.375	9.53		41.59	61.90
			0.438	11.13		48.29	71.86
			0.500	12.70	60 XS	54.79	81.54
			0.562	14.27		61.21	91.09
			0.594	15.09	80	64.49	95.98
			0.625	15.88		67.65	100.68
			0.719	18.26	100	77.11	114.74
			0.812	20.62		86.27	128.39
0.844	21.44	120	89.38	133.02			
0.875	22.23		92.38	137.47			
0.938	23.83		98.39	146.43			
1.000	25.40	140 XXS	104.24	155.12			
1.125	28.58	160	115.76	172.27			
1.250	31.75		126.95	188.93			
11	11.750	298.5	0.375	9.53	STD	45.60	67.86
			0.500	12.70	XS	60.14	89.49
12	12.750	323.9	0.105	2.67		14.19	21.12
			0.134	3.40		18.07	26.90
			0.156	3.96	5S	21.00	31.26

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO				
	in	mm	in	mm		Lb/ft	Kg/m			
12	12.750	323.9	0.165	4.19	5	22.20	33.04			
			0.172	4.37		23.13	34.42			
			0.180	4.57	10 10S	24.19	36.00			
			0.188	4.78		25.25	37.57			
			0.203	5.16		27.23	40.52			
			0.219	5.56		29.34	43.66			
			0.237	6.02		31.70	47.18			
			0.250	6.35	20	33.41	49.72			
			0.281	7.14		37.46	55.74			
			0.297	7.54		39.54	58.84			
			0.312	7.92		41.49	61.74			
			0.330	8.38	30	43.82	65.21			
			0.344	8.74		45.62	67.90			
			0.375	9.53	STD	49.61	73.83			
			0.406	10.31	40	53.58	79.73			
			0.438	11.13		57.65	85.80			
			0.500	12.70	XS	65.48	97.45			
			0.562	14.27	60	73.23	108.98			
			0.625	15.88		81.02	120.57			
			0.688	17.48	80	88.72	132.03			
			0.750	19.05		96.22	143.19			
			0.812	20.62		103.63	154.22			
			0.844	21.44	100	107.43	159.87			
			0.875	22.23		111.08	165.31			
			0.938	23.83		118.45	176.27			
			1.000	25.40	120 XXS	125.62	186.94			
			1.062	26.97		132.70	197.48			
			1.125	28.58	140	139.82	208.07			
			1.250	31.75		153.68	228.70			
			1.312	33.32	160	160.43	238.75			
			14	14.000	355.6	0.105	2.67		15.60	23.21
						0.134	3.40		19.86	29.56
						0.156	3.96	5S	23.09	34.36
						0.164	4.17		24.26	36.10
0.179	4.55					26.45	39.36			
0.188	4.78	10S				27.76	41.31			
0.203	5.16					29.94	44.56			
0.210	5.33					30.96	46.07			
0.219	5.56					32.27	48.02			
0.250	6.35	10				36.75	54.69			
0.281	7.14					41.21	61.33			
0.312	7.92	20				45.66	67.94			
0.344	8.74					50.22	74.74			
0.375	9.53	30 STD				54.62	81.29			
0.406	10.31		59.00	87.81						
0.438	11.13	40	63.50	94.51						

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO	
	in	mm	in	mm		Lb/ft	Kg/m
14	14.000	355.6	0.469	11.91		67.84	100.96
			0.500	12.70	XS	72.16	107.39
			0.562	14.27		80.74	120.15
			0.594	15.09	60	85.13	126.69
			0.625	15.88		89.37	132.99
			0.688	17.48		97.91	145.71
			0.750	19.05	80	106.24	158.10
			0.812	20.62		114.48	170.37
			0.875	22.23		122.78	182.71
			0.938	23.83	100	130.99	194.93
			1.000	25.40		138.98	206.83
			1.062	26.97		146.89	218.60
			1.094	27.79	120	150.94	224.63
			1.125	28.58		154.85	230.44
			1.250	31.75	140	170.38	253.56
			1.406	35.71	160	189.30	281.71
			2.000	50.80		256.58	381.83
			2.125	53.98		269.78	401.47
			2.200	55.88		277.53	413.01
			2.500	63.50		307.36	457.40
16	16.000	406.4	0.134	3.40		22.73	33.82
			0.165	4.19	5S	27.93	41.57
			0.188	4.78	10S	31.78	47.29
			0.203	5.16		34.28	51.02
			0.219	5.56		36.95	54.98
			0.250	6.35	10	42.09	62.64
			0.281	7.14		47.22	70.27
			0.312	7.92	20	52.33	77.87
			0.344	8.74		57.58	85.68
			0.375	9.53	30 STD	62.64	93.22
			0.406	10.31		67.69	100.73
			0.438	11.13		72.87	108.44
			0.469	11.91		77.87	115.89
			0.500	12.70	40 XS	82.85	123.30
			0.562	14.27		92.75	138.03
			0.625	15.88		102.73	152.88
			0.656	16.66	60	107.61	160.14
			0.688	17.48		112.62	167.60
			0.750	19.05		122.28	181.97
			0.812	20.62		131.85	196.21
0.844	21.44	80	136.75	203.51			
0.875	22.23		141.49	210.55			
0.938	23.83		151.04	224.77			
1.000	25.40		160.36	238.64			
1.031	26.19	100	164.99	245.53			
1.062	26.97		169.60	252.39			
1.125	28.58		178.90	266.24			
1.188	30.18		188.12	279.96			
1.219	30.96	120	192.63	286.66			
1.250	31.75		197.11	293.33			
1.438	36.53	140	223.87	333.15			
1.594	40.49	160	245.49	365.34			
18	18.000	457.2	0.165	4.19	5S	31.46	46.82
			0.188	4.78	10S	35.80	53.28
			0.219	5.56		41.63	61.95
			0.250	6.35	10	47.44	70.60
			0.281	7.14		53.23	79.21

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO	
	in	mm	in	mm		Lb/ft	Kg/m
18	18.000	457.2	0.312	7.92	20	59.00	87.80
			0.344	8.74		64.93	96.63
			0.375	9.53	STD	70.66	105.15
			0.406	10.31		76.37	113.65
			0.438	11.13	30	82.24	122.38
			0.469	11.91		87.90	130.81
			0.500	12.70	XS	93.54	139.21
			0.562	14.27	40	104.77	155.92
			0.625	15.88		116.10	172.77
			0.688	17.48		127.33	189.49
			0.750	19.05	60	138.31	205.83
			0.812	20.62		149.21	222.05
			0.875	22.23		160.19	238.40
			0.938	23.83	80	171.10	254.62
			1.000	25.40		181.74	270.46
			1.062	26.97		192.31	286.19
			1.125	28.58		202.96	302.03
			1.156	29.36	100	208.17	309.79
			1.188	30.18		213.52	317.76
			1.250	31.75		223.84	333.11
1.375	34.93	120	244.38	363.68			
1.562	39.67	140	274.50	408.50			
1.781	45.24	160	308.81	459.57			
20	20.000	508.0	0.188	4.78	5S	39.82	59.26
			0.219	5.56	10S	46.31	68.92
			0.250	6.35	10	52.79	78.55
			0.281	7.14		59.24	88.16
			0.312	7.92		65.67	97.73
			0.344	8.74		72.29	107.58
			0.375	9.53	20 STD	78.68	117.09
			0.406	10.31		85.05	126.56
			0.438	11.13		91.60	136.32
			0.469	11.91		97.93	145.73
			0.500	12.70	30 XS	104.24	155.12
			0.562	14.27		116.79	173.80
			0.594	15.09	40	123.23	183.39
			0.625	15.88		129.46	192.66
			0.688	17.48		142.04	211.39
			0.750	19.05		154.35	229.70
			0.812	20.62	60	166.57	247.88
			0.875	22.23		178.90	266.24
			0.938	23.83		191.15	284.47
			1.000	25.40		203.12	302.28
1.031	26.19	80	209.08	311.15			
1.062	26.97		215.01	319.98			
1.125	28.58		227.01	337.83			
1.188	30.18		238.92	355.56			
1.250	31.75		250.57	372.88			
1.281	32.54	100	256.35	381.50			
1.312	33.32		262.12	390.08			
1.375	34.93		273.78	407.44			
1.500	38.10	120	296.67	441.49			
1.750	44.45	140	341.44	508.11			
1.969	50.01	160	379.56	564.84			
22	22.000	558.8	0.250	6.35	10	58.13	86.51
			0.281	7.14		65.25	97.10
			0.312	7.92		72.34	107.66



DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPEJOR DE PARED		CÉDULA	PESO	
	in	mm	in	mm		Lb/ft	Kg/m
22	22.000	558.8	0.344	8.74	STD	79.64	118.52
			0.375	9.53	20	86.70	129.02
			0.406	10.31		93.73	139.48
			0.438	11.13		100.97	150.25
			0.469	11.91		107.96	160.66
			0.500	12.70	30 XS	114.93	171.03
			0.562	14.27		128.80	191.68
			0.625	15.88		142.82	212.54
			0.688	17.48		156.76	233.28
			0.750	19.05		170.38	253.56
			0.812	20.62		183.93	273.72
			0.875	22.23	60	197.61	294.08
			0.938	23.83		211.21	314.31
			1.000	25.40		224.51	334.10
			1.062	26.97		237.72	353.77
			1.125	28.58	80	251.07	373.63
			1.188	30.18		264.33	393.36
			1.250	31.75		277.29	412.66
			1.312	33.32		290.18	431.83
			1.375	34.93	100	303.18	451.19
1.438	36.53		316.11	470.42			
1.500	38.10		328.74	489.22			
1.625	41.28	120	353.97	526.76			
1.875	47.63	140	403.41	600.34			
2.125	53.98	160	451.52	671.93			
24	24.000	609.6	0.218	5.54	55	55.43	82.48
			0.250	6.35	10	63.48	94.46
			0.281	7.14		71.25	106.04
			0.312	7.92		79.01	117.58
			0.344	8.74		87.00	129.47
			0.375	9.53	20 STD	94.71	140.95
			0.406	10.31		102.41	152.40
			0.438	11.13		110.33	164.19
			0.469	11.91		117.98	175.58
			0.500	12.70	XS	125.62	186.94
			0.562	14.27	30	140.82	209.56
			0.625	15.88		156.19	232.43
			0.688	17.48	40	171.47	255.17
			0.750	19.05		186.42	277.42
			0.812	20.62		201.29	299.56
			0.875	22.23		216.32	321.92
			0.938	23.83		231.26	344.16
			0.969	24.61	60	238.59	355.06
			1.000	25.40		245.89	365.92
			1.062	26.97		260.43	387.56
1.125	28.58		275.12	409.42			
1.188	30.18		289.73	431.16			
1.219	30.96	80	296.88	441.81			
1.250	31.75		304.02	452.43			
1.312	33.32		318.23	473.58			
1.375	34.93		332.58	494.94			
1.438	36.53		346.85	516.18			
1.500	38.10		360.81	536.95			
1.531	38.89	100	367.76	547.29			
1.562	39.67		374.69	557.60			
1.812	46.02	120	429.82	639.64			
2.062	52.37	140	483.61	719.69			
2.343	59.51	160	542.48	807.29			

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO							
	in	mm	in	mm		Lb/ft	Kg/m						
26	26.000	660.4	0.250	6.35	10	STD	68.82	102.42					
			0.281	7.14			77.26	114.98					
			0.312	7.92			85.68	127.51					
			0.344	8.74			94.35	140.41					
			0.375	9.53			102.73	152.88					
			0.406	10.31			111.09	165.32					
			0.438	11.13			119.70	178.13					
			0.469	11.91			128.01	190.50					
			0.500	12.70			136.31	202.85					
			0.562	14.27			152.84	227.45					
			0.625	15.88			169.55	252.32					
			0.688	17.48			186.18	277.06					
			0.750	19.05			202.46	301.29					
			0.812	20.62			218.66	325.39					
			0.875	22.23			235.03	349.76					
			0.938	23.83			251.32	374.01					
1.000	25.40	267.27	397.74										
28	28.000	711.2	0.250	6.35	10	STD	74.17	110.37					
			0.281	7.14			83.27	123.92					
			0.312	7.92			92.35	137.44					
			0.344	8.74			101.71	151.36					
			0.375	9.53			110.75	164.81					
			0.406	10.31			119.77	178.24					
			0.438	11.13			129.06	192.06					
			0.469	11.91			138.04	205.43					
			0.500	12.70			147.00	218.76					
			0.562	14.27			164.85	245.33					
			0.625	15.88			182.91	272.20					
			0.688	17.48			200.89	298.95					
			0.750	19.05			218.49	325.15					
			0.812	20.62			236.02	351.23					
			0.875	22.23			253.74	377.61					
			0.938	23.83			271.38	403.85					
1.000	25.40	288.65	429.56										
30	30.000	762.0	0.250	6.35	10	5S	79.51	118.33					
			0.281	7.14			89.28	132.86					
			0.312	7.92			99.03	147.37					
			0.344	8.74			109.06	162.30					
			0.375	9.53			118.77	176.75					
			0.406	10.31			128.45	191.16					
			0.438	11.13			138.43	206.00					
			0.469	11.91			148.07	220.35					
			0.500	12.70			157.69	234.67					
			0.562	14.27			176.87	263.21					
			0.625	15.88			196.28	292.09					
			32	32.000			812.8	0.250	6.35	10	10S	83.27	123.92
								0.281	7.14			92.35	137.44
								0.312	7.92			101.71	151.36
								0.344	8.74			110.75	164.81
								0.375	9.53			119.77	178.24
0.406	10.31	129.06			192.06								
0.438	11.13	138.04			205.43								
0.469	11.91	147.00			218.76								
0.500	12.70	157.69			234.67								
0.562	14.27	176.87			263.21								
0.625	15.88	196.28			292.09								
34	34.000	863.6			0.250	6.35		10	STD			84.86	126.28
					0.281	7.14						95.29	141.80
					0.312	7.92						105.70	157.29
					0.344	8.74						116.42	173.25
					0.375	9.53						126.79	188.68
			0.406	10.31	137.13	204.08							
			0.438	11.13	147.79	219.94							
			0.500	12.70	168.38	250.58							
			0.562	14.27	188.89	281.09							
			0.625	15.88	209.64	311.98							
			0.688	17.48	230.31	342.74							
			0.750	19.05	250.57	372.88							
			0.812	20.62	270.74	402.91							
			0.875	22.23	291.16	433.29							
			0.938	23.83	311.49	463.55							
			1.000	25.40	331.41	493.20							
36	36.000	914.4	0.250	6.35	10	40	84.86	126.28					
			0.281	7.14			95.29	141.80					
			0.312	7.92			105.70	157.29					
			0.344	8.74			116.42	173.25					
			0.375	9.53			126.79	188.68					
			0.406	10.31			137.13	204.08					
			0.438	11.13			147.79	219.94					
			0.500	12.70			168.38	250.58					
			0.562	14.27			188.89	281.09					
			0.625	15.88			209.64	311.98					
			0.688	17.48			230.31	342.74					
			0.750	19.05			250.57	372.88					
			0.812	20.62			270.74	402.91					
			0.875	22.23			291.16	433.29					
			0.938	23.83			311.49	463.55					
			1.000	25.40			331.41	493.20					

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO							
	in	mm	in	mm		Lb/ft	Kg/m						
30	30.000	762.0	0.688	17.48	10	STD	215.60	320.84					
			0.750	19.05			234.53	349.02					
			0.812	20.62			253.38	377.07					
			0.875	22.23			272.45	405.45					
			0.938	23.83			291.43	433.70					
			1.000	25.40			310.03	461.38					
			1.062	26.97			328.55	488.94					
			1.125	28.58			347.28	516.81					
			1.188	30.18			365.93	544.57					
			1.250	31.75			384.20	571.75					
			1.375	34.93			420.78	626.19					
			1.500	38.10			457.03	680.14					
			32	32.000			812.8	0.250	6.35	10	STD	84.86	126.28
								0.281	7.14			95.29	141.80
								0.312	7.92			105.70	157.29
								0.344	8.74			116.42	173.25
0.375	9.53	126.79			188.68								
0.406	10.31	137.13			204.08								
0.438	11.13	147.79			219.94								
0.500	12.70	168.38			250.58								
0.562	14.27	188.89			281.09								
0.625	15.88	209.64			311.98								
0.688	17.48	230.31			342.74								
0.750	19.05	250.57			372.88								
0.812	20.62	270.74			402.91								
0.875	22.23	291.16			433.29								
0.938	23.83	311.49			463.55								
1.000	25.40	331.41			493.20								
34	34.000	863.6	0.250	6.35	10	STD	90.20	134.24					
			0.281	7.14			101.30	150.74					
			0.312	7.92			112.37	167.22					
			0.344	8.74			123.77	184.20					
			0.375	9.53			134.80	200.61					
			0.406	10.31			145.81	216.99					
			0.438	11.13			157.16	233.87					
			0.469	11.91			168.12	250.20					
			0.500	12.70			179.07	266.49					
			0.562	14.27			200.90	298.98					
			0.625	15.88			223.00	331.87					
			0.688	17.48			245.02	364.63					
			0.750	19.05			266.60	396.75					
			0.812	20.62			288.10	428.74					
			0.875	22.23			309.87	461.13					
			0.938	23.83			331.54	493.39					
1.000	25.40	352.80	525.02										
36	36.000	914.4	0.250	6.35	10	STD	95.55	142.19					
			0.281	7.14			107.30	159.69					
			0.312	7.92			119.04	177.15					
			38	38.000			965.2	0.250	6.35	10	STD	101.30	150.74
								0.281	7.14			112.37	167.22
								0.312	7.92			123.77	184.20
								0.344	8.74			134.80	200.61
								0.375	9.53			145.81	216.99
								0.406	10.31			157.16	233.87
								0.438	11.13			168.12	250.20
								0.469	11.91			179.07	266.49
								0.500	12.70			190.90	298.98
								0.562	14.27			212.37	331.87
								0.625	15.88			234.02	364.63
								0.688	17.48			256.60	396.75
								0.750	19.05			279.10	428.74
0.812	20.62	301.87			461.13								
0.875	22.23	324.54			493.39								
0.938	23.83	347.20			525.02								
1.000	25.40	370.00	556.52										

DIÁMETRO NOMINAL	DIÁMETRO EXTERIOR		ESPESOR DE PARED		CÉDULA	PESO	
	in	mm	in	mm		Lb/ft	Kg/m
36	36.000	914.4	0.344	8.74	STD	131.13	195.14
			0.375	9.53		142.82	212.54
			0.406	10.31		154.49	229.91
			0.438	11.13	XS	166.52	247.81
			0.469	11.91		178.15	265.12
			0.500	12.70		189.76	282.40
			0.562	14.27	30	212.92	316.86
			0.625	15.88		236.37	351.75
			0.688	17.48		259.73	386.52
			0.750	19.05	40	282.64	420.61
			0.812	20.62		305.46	454.58
			0.875	22.23		328.57	488.97
			0.938	23.83		351.60	523.24
			1.000	25.40		374.18	556.84
			1.062	26.97		396.67	590.31
			1.125	28.58		419.45	624.21
			1.188	30.18	442.14	657.97	
			1.250	31.75	464.38	691.08	
			1.375	34.93	508.98	757.45	
1.500	38.10	553.25	823.32				
42	42.000	1,066.8	0.250	6.35	STD	111.59	166.06
			0.344	8.74		153.20	227.98
			0.375	9.53		166.88	248.34
			0.406	10.31	XS	180.54	268.67
			0.438	11.13		194.62	289.62
			0.469	11.91		208.24	309.89
			0.500	12.70	40	221.83	330.13
			0.562	14.27		248.97	370.51
			0.625	15.88		276.46	411.41
			0.688	17.48		303.86	452.19
			0.750	19.05		330.75	492.20
			0.812	20.62		357.55	532.09
			0.875	22.23		384.70	572.50
			0.938	23.83	411.77	612.78	
			1.000	25.40	438.32	652.30	
			1.062	26.97	464.79	691.69	
			1.125	28.58	491.61	731.60	
			1.188	30.18	518.34	771.37	
			1.250	31.75	544.56	810.40	
1.500	38.10	649.47	966.51				
48	48.000	1,219.2	0.344	8.74	STD	175.26	260.82
			0.375	9.53		190.93	284.14
			0.406	10.31		206.58	307.42
			0.438	11.13	XS	222.71	331.43
			0.469	11.91		238.32	354.66
			0.500	12.70		253.91	377.85
			0.562	14.27	40	285.02	424.15
			0.625	15.88		316.55	471.07
			0.688	17.48		347.99	517.87
			0.750	19.05		378.85	563.80
			0.812	20.62		409.64	609.60
			0.875	22.23		440.83	656.02
			0.938	23.83		471.94	702.32
			1.000	25.40	502.47	747.75	
			1.062	26.97	532.92	793.07	
			1.125	28.58	563.77	838.99	
			1.188	30.18	594.54	884.78	
			1.250	31.75	624.74	929.72	
			1.500	38.10	745.68	1109.70	
2.000	50.80	983.55	1463.69				

