



CANTIDADES PARA COTIZACIÓN

FPSO-02
Versión 0

CLIENTE:	Convel	FECHA:	28/03/2014
PROYECTO:	Línea directa - Palmas	No COTIZACIÓN:	2016-045
ELABORO:		REVISO:	

ITEM	DESCRIPCION	MATERIAL	CALIDAD	FORMATO	ANCHO (m)	LONG. (m)	CANTIDAD	FC AREA	PESO (kg)	AREA PINTURA (m2)	PESO TOTAL (kg)	AREA TOTAL (m2)	DESPUNTE (%)	PESO CON DESPUNTE (kg)
1.01	Columnas armadas tipo 1	Tubco08"x5.5	ASTM A500 Gr C	6m		3.90	28.00	1.00	3,163.52	75.16	3,163.52	75.16	3%	3,258.43
1.02	Perimetrales base 1-1	W8"x31	ASTM A572 Gr 50	12m		1.70	28.00	1.00	2,194.36	55.22	2,194.36	55.22	4%	2,282.13
1.03	Perimetrales - 2-2	Tubco04"x3	ASTM A500 Gr C	6m		1.40	56.00	1.00	639.74	27.96	639.74	27.96	3%	660.86
1.04	Perimetrales sup 3-3	Tubco08"x5.5	ASTM A500 Gr C	6m		1.40	28.00	1.00	1,135.62	26.98	1,135.62	26.98	3%	1,169.69
1.05	Diagonales - horizontales	Tubco04"x3	ASTM A500 Gr C	6m		2.00	42.00	1.00	695.44	29.95	695.44	29.95	3%	708.06
1.06	Diagonales - horizontales base	W8"x31	ASTM A572 Gr 50	12m		2.40	14.00	1.00	1,548.96	38.98	1,548.96	38.98	4%	1,610.92
1.07	Diagonales - verticales	Tubco04"x4	ASTM A500 Gr C	6m		1.68	168.00	1.00	3,033.29	100.52	3,033.29	100.52	2%	3,098.88
1.08	Columnas secundarias	PTEC06.1/4"x4.5	ASTM A500 Gr C	6m		3.90	6.00	1.00	400.61	11.67	400.61	11.67	3%	410.88
1.09		Tub16" SCH40	ASTM A500 Gr C	6m		3.90	3.00	1.00	1,442.61	14.94	1,442.61	14.94	3%	1,479.60
1.10	Correas	2PHRC305x80x2	ASTM A1011 Gr 50	6m		247.56	1.00	1.00	3,871.84	230.23	3,871.84	230.23	3%	3,968.63
1.11		2PHRC305x80x2	ASTM A1011 Gr 50	6m		297.19	1.00	1.00	4,648.08	276.39	4,648.08	276.39	3%	4,764.28
1.12	Vigas principales - VAT1	Lam1/2"	ASTM A572 Gr 50	1.83mx6.09m	0.20	171.45	2.00	1.00	6,837.23	138.91	6,837.23	138.91	5%	7,179.10
1.13		Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.58	171.45	1.00	1.00	4,957.00	200.15	4,957.00	200.15	5%	5,204.94
1.14	Vigas principales - VAT2	Lam1/2"	ASTM A572 Gr 50	1.83mx6.09m	0.23	55.26	2.00	1.00	2,534.18	51.48	2,534.18	51.48	5%	2,660.89
1.15		Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.70	55.26	1.00	1.00	2,890.76	78.10	2,890.76	78.10	5%	3,035.29
1.16		W16"x31	ASTM A572 Gr 50	12m		95.61	1.00	1.00	4,407.61	125.19	4,407.61	125.19	7%	4,702.20
1.17	Correa perimetral armada	Lam3/16"	ASTM A572 Gr 50	1.22mx2.44m	0.16	158.10	2.00	1.00	1,890.42	101.67	1,890.42	101.67	5%	1,984.94
1.18		Lam3/16"	ASTM A572 Gr 50	1.22mx2.44m	0.37	158.10	2.00	1.00	4,312.52	231.92	4,312.52	231.92	5%	4,528.15
1.19	VAT3 - perimetral	Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.15	153.20	2.00	1.00	2,290.99	92.50	2,290.99	92.50	5%	2,405.54
1.20		Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.30	153.20	1.00	1.00	2,290.99	92.50	2,290.99	92.50	5%	2,405.54
1.21	Riostras	Vat1/2"	ASTM A36	6m		308.30	1.00	1.00	306.58	12.30	306.58	12.30	3%	316.22
1.22	Conexiones - D1	Lam3/4"	ASTM A572 Gr 50	1.22mx2.44m	0.30	0.83	7.00	1.00	260.65	3.55	260.65	3.55	5%	273.69
1.23	D2	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.30	0.30	2.00	1.00	13.45	0.36	13.45	0.36	5%	14.12
1.24		Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.07	0.31	1.00	1.00	1.11	0.04	1.11	0.04	5%	1.17
1.25	D3	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.30	0.30	10.00	1.00	18.78	0.67	18.78	0.67	5%	19.62
1.26		Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.07	0.41	5.00	1.00	11.03	0.30	11.03	0.30	5%	11.58
1.27	D4	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.30	0.30	4.00	1.00	26.90	0.73	26.90	0.73	5%	28.25
1.28		Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.08	0.55	4.00	1.00	13.48	0.36	13.48	0.36	5%	14.16
1.29	D6	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.25	0.25	28.00	1.00	130.78	3.53	130.78	3.53	5%	137.32
1.30	D8	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.25	0.25	6.00	1.00	28.02	0.76	28.02	0.76	5%	29.43
1.31	D9	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.48	0.48	1.00	1.00	28.70	0.47	28.70	0.47	5%	30.14
1.32		Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.08	0.48	2.00	1.00	5.07	0.14	5.07	0.14	5%	5.33
1.33	D10	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.07	0.41	4.00	1.00	8.82	0.24	8.82	0.24	5%	9.27
1.34	D11	Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.06	0.21	104.00	1.00	67.50	2.73	67.50	2.73	5%	70.87
1.35	D12	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.14	0.30	48.00	1.00	154.96	4.19	154.96	4.19	5%	162.71
1.36	D13 - portacorreas	Lam3	ASTM A572 Gr 50	1.22mx2.44m	0.18	0.29	92.00	1.00	113.10	9.63	113.10	9.63	5%	118.75
1.37		Lam3	ASTM A572 Gr 50	1.22mx2.44m	0.08	0.29	184.00	1.00	100.53	8.56	100.53	8.56	5%	105.56
1.38		Lam3	ASTM A572 Gr 50	1.22mx2.44m	0.05	0.16	92.00	1.00	31.20	2.66	31.20	2.66	5%	32.76
1.39	D14	Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.05	0.13	168.00	1.00	54.43	2.20	54.43	2.20	5%	57.16
1.40		L2"x1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.06	0.06	168.00	1.00	47.88	1.92	47.88	1.92	5%	50.27
1.41	D15	Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.08	0.40	14.00	1.00	23.68	0.96	23.68	0.96	5%	24.87
1.42	D16	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.17	0.58	2.00	1.00	14.65	0.40	14.65	0.40	5%	15.38
1.43	D17	Lam1"	ASTM A572 Gr 50	2.44mx6.09m	0.12	0.80	9.00	1.00	172.27	1.77	172.27	1.77	5%	180.89
1.44		Lam1/2"	ASTM A572 Gr 50	1.83mx6.09m	0.16	0.18	18.00	1.00	50.82	1.03	50.82	1.03	5%	53.36
1.45		Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.24	0.12	18.00	1.00	25.73	1.04	25.73	1.04	5%	27.02
1.46		Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.16	0.55	18.00	1.00	115.73	3.13	115.73	3.13	5%	121.52
1.47	D18	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.21	0.68	6.00	1.00	62.05	1.68	62.05	1.68	5%	65.15
1.48		Lam1"	ASTM A572 Gr 50	2.44mx6.09m	0.18	1.20	3.00	1.00	129.20	1.33	129.20	1.33	5%	135.66
1.49		Lam1/2"	ASTM A572 Gr 50	1.83mx6.09m	0.12	0.12	6.00	1.00	8.61	0.17	8.61	0.17	5%	9.04
1.50		Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.12	0.12	6.00	1.00	4.31	0.17	4.31	0.17	5%	4.52
1.51	D21	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.25	0.25	28.00	1.00	130.78	3.53	130.78	3.53	5%	137.32
1.52								1.00	0.00	0.00	0.00	0.00	0%	0.00
1.53								1.00	0.00	0.00	0.00	0.00	0%	0.00
										SUB-TOTALES	57,385.11	2,072.12	4%	59,832.97

ITEM	DESCRIPCION	MATERIAL	CALIDAD	FORMATO	ANCHO (m)	LONG. (m)	CANTIDAD	FC AREA	PESO (kg)	AREA PINTURA (m2)	PESO TOTAL (kg)	AREA TOTAL (m2)	DESPUNTE (%)	PESO CON DESPUNTE (kg)
2.01	Losa	W12"x16	ASTM A572 Gr 50	12m		5.50	9.00	1.00	1,178.10	46.33	1,178.10	46.33	4%	1,225.22
2.02	Cubierta	2PHRC305x80x1.5	ASTM A1011 Gr 50	6m		5.50	11.00	1.00	709.67	56.27	709.67	56.27	9%	774.18
2.03	Conexiones -D1	Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.05	0.25	40.00	1.00	24.92	1.01	24.92	1.01	5%	26.17
2.04	D2	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.25	0.31	18.00	1.00	102.57	2.77	102.57	2.77	5%	107.70
2.05		Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.05	0.21	18.00	1.00	9.42	0.38	9.42	0.38	5%	9.89
2.06	D4	L3"x1/4"	ASTM A36	6m		0.60	2.00	1.00	8.75	0.35	8.75	0.35	5%	9.19
2.07								1.00	0.00	0.00	0.00	0.00	0%	0.00
										SUB-TOTALES	2,033.43	109.10	6%	2,152.35

3 Ampliación losa 3		CANTIDAD		1											
ITEM	DESCRIPCION	MATERIAL	CALIDAD	FORMATO	ANCHO (m)		LONG. (m)	CANTIDAD	FC AREA	PESO (kg)	AREA PINTURA (m2)	PESO TOTAL (kg)	AREA TOTAL (m2)	DESPUNTE (%)	PESO CON DESPUNTE (kg)
3.01	Vigas	W8"x13	ASTM A572 Gr 50	12m			9.14	1.00	1.00	176.34	7.08	176.34	7.08	31%	231.60
3.02		W12"x16	ASTM A572 Gr 50	12m			46.41	1.00	1.00	1,104.61	45.32	1,104.61	45.32	4%	1,148.79
3.03		W21"x44	ASTM A572 Gr 50	12m			36.08	1.00	1.00	2,381.54	59.42	2,381.54	59.42	4%	2,500.62
3.04		W21"x57	ASTM A572 Gr 50	12m			61.90	1.00	1.00	5,261.76	101.98	5,261.76	101.98	7%	5,610.00
3.05		W18"x35	ASTM A572 Gr 50	12m			96.28	1.00	1.00	5,006.56	139.57	5,006.56	139.57	5%	5,256.89
3.06		W16"x26	ASTM A572 Gr 50	12m			50.18	1.00	1.00	1,946.87	65.73	1,946.87	65.73	4%	2,024.74
3.07		W24"x68	ASTM A572 Gr 50	12m			19.21	1.00	1.00	1,940.11	39.14	1,940.11	39.14	25%	2,424.00
3.08	Vigas armadas - VAT1	W14"x22	ASTM A572 Gr 50	12m			316.25	1.00	1.00	10,404.56	366.97	10,404.56	366.97	3%	10,716.70
3.09		Lam1/2"	ASTM A572 Gr 50	1.22mx2.44m	0.20		39.02	2.00	1.00	1,470.09	31.59	1,470.09	31.59	5%	1,543.99
3.10		Lam6	ASTM A572 Gr 50	1.22mx2.44m	0.58		39.02	1.00	1.00	1,598.72	45.66	1,598.72	45.66	5%	1,678.65
3.11	VAT3	Lam25	ASTM A572 Gr 50	2.44mx6.09m	0.15		59.22	2.00	1.00	3,486.70	36.42	3,486.70	36.42	5%	3,661.03
3.12		Lam15	ASTM A572 Gr 50	1.83mx6.09m	0.30		59.22	1.00	1.00	2,092.02	36.07	2,092.02	36.07	5%	2,196.62
3.13	VAT2	Lam19	ASTM A572 Gr 50	2.44mx6.09m	0.23		13.97	2.00	1.00	958.47	13.10	958.47	13.10	5%	1,006.39
3.14		Lam15	ASTM A572 Gr 50	1.83mx6.09m	0.70		13.97	1.00	1.00	1,151.48	19.85	1,151.48	19.85	5%	1,209.05
3.15	VAT4	Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.15		186.50	2.00	1.00	2,788.97	112.61	2,788.97	112.61	5%	2,928.42
3.16		Lam1/4"	ASTM A572 Gr 50	1.22mx2.44m	0.30		186.50	1.00	1.00	2,788.97	112.61	2,788.97	112.61	5%	2,928.42
3.17	Conexiones - D1A	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.14		0.29	166.00	1.00	514.48	13.90	514.48	13.90	5%	540.21
3.18	D3	Lam15	ASTM A572 Gr 50	1.83mx6.09m	0.31		0.88	12.00	1.00	297.86	5.14	297.86	5.14	5%	312.75
3.19		Lam1/2"	ASTM A572 Gr 50	1.83mx6.09m	0.09		0.43	24.00	1.00	94.65	1.92	94.65	1.92	5%	99.39
3.20	D4	Lam15	ASTM A572 Gr 50	1.83mx6.09m	0.53		0.88	329.51	1.00	329.51	5.88	329.51	5.88	5%	346.99
3.21		Lam5/8"	ASTM A572 Gr 50	1.83mx6.09m	0.08		0.57	12.00	1.00	68.17	1.11	68.17	1.11	5%	71.58
3.22	D4i	Lam15	ASTM A572 Gr 50	1.83mx6.09m	0.53		0.88	2.00	1.00	109.84	1.89	109.84	1.89	5%	115.33
3.23		Lam5/8"	ASTM A572 Gr 50	1.83mx6.09m	0.08		0.57	4.00	1.00	22.72	0.37	22.72	0.37	5%	23.86
3.24	D5	Lam12	ASTM A572 Gr 50	1.22mx2.44m	0.68		0.78	1.00	1.00	49.96	1.07	49.96	1.07	5%	52.46
3.25		Lam12	ASTM A572 Gr 50	1.22mx2.44m	0.28		0.69	2.00	1.00	7.57	0.16	7.57	0.16	5%	7.95
3.26	D7	Lam1/2"	ASTM A572 Gr 50	1.83mx6.09m	0.27		0.46	3.00	1.00	318.44	6.47	318.44	6.47	5%	334.36
3.27	D8	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.13		0.33	96.00	1.00	316.79	8.56	316.79	8.56	5%	332.63
3.28	D9	Lam3/8"	ASTM A572 Gr 50	1.22mx2.44m	0.18		0.58	16.00	1.00	123.76	3.34	123.76	3.34	5%	129.94
3.29									1.00	0.00	0.00	0.00	0.00	0%	0.00
3.30									1.00	0.00	0.00	0.00	0.00	0%	0.00
3.31									1.00	0.00	0.00	0.00	0.00	0%	0.00
3.32									1.00	0.00	0.00	0.00	0.00	0%	0.00
3.33									1.00	0.00	0.00	0.00	0.00	0%	0.00
										50.81	1.76	50.81	1.76		52.43



CANTIDADES PARA COTIZACIÓN

FPSO-02
Versión 0


CLIENTE:	Convel	FECHA:	28/03/2014
PROYECTO:	Linea directa - Palmas	No COTIZACION:	2016-045
ELABORO:		REVISO:	

4.29	D10	Lam5/8"	ASTM A572 Gr 50	1,83mX6,09m	0.12	0.29	12.00	1.00	51.67	0.84	51.67	0.84	5%	54.25
4.30								1.00	0.00	0.00	0.00	0.00	0%	0.00
4.31								1.00	0.00	0.00	0.00	0.00	0%	0.00
4.32								1.00	0.00	0.00	0.00	0.00	0%	0.00
										SUB-TOTALES	35.555.62	844.89	5%	37.216.84

ITEM	DESCRIPCION	MATERIAL	CALIDAD	FORMATO	ANCHO (m)	LONG. (m)	CANTIDAD	FC AREA	PESO (kg)	AREA PINTURA (m2)	PESO TOTAL (kg)	AREA TOTAL (m2)	DESPUNTE (%)	PESO CON DESPUNTE (kg)
5.01	Vigas	W14"x22	ASTM A572 Gr 50	12m		5.53	1.00	1.00	181.90	6.42	181.90	6.42	3%	187.36
5.02		W16"x26	ASTM A572 Gr 50	12m		13.99	1.00	1.00	542.23	18.33	542.23	18.33	4%	564.65
5.03		W18"x35	ASTM A572 Gr 50	12m		1.43	1.00	1.00	74.36	2.07	74.36	2.07	5%	78.08
5.04		W21"x44	ASTM A572 Gr 50	12m		9.06	1.00	1.00	597.70	14.91	597.70	14.91	5%	627.58
5.05	VAT4	Lam6	ASTM A572 Gr 50	1,22mX2,44m	0.15	15.00	2.00	1.00	211.95	9.05	211.95	9.05	5%	222.55
5.06		Lam6	ASTM A572 Gr 50	1,22mX2,44m	0.30	15.00	1.00	1.00	211.95	9.05	211.95	9.05	5%	222.55
5.07	Conexiones - D1	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.15	0.50	2.00	1.00	7.51	0.30	7.51	0.30	5%	7.88
5.08		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.15	0.50	2.00	1.00	7.51	0.30	7.51	0.30	5%	7.88
5.09	D3	Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.08	0.43	2.00	1.00	5.27	0.14	5.27	0.14	5%	5.53
5.10	D4	Lam1"	ASTM A572 Gr 50	2,44mX6,09m	0.13	0.67	2.00	1.00	33.68	0.35	33.68	0.35	5%	35.35
5.11		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.15	0.50	4.00	1.00	15.01	0.61	15.01	0.61	5%	15.76
5.12		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.12	0.19	4.00	1.00	4.43	0.18	4.43	0.18	5%	4.65
5.13		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.13	0.21	4.00	1.00	5.09	0.22	5.09	0.22	5%	5.49
5.14	D5	Lam1"	ASTM A572 Gr 50	2,44mX6,09m	0.14	1.25	1.00	1.00	34.99	0.36	34.99	0.36	5%	36.54
5.15		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.15	0.50	4.00	1.00	15.01	0.61	15.01	0.61	5%	15.76
5.16		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.10	0.13	2.00	1.00	1.30	0.05	1.30	0.05	5%	1.36
5.17		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.14	0.17	2.00	1.00	3.62	0.10	3.62	0.10	5%	3.80
5.18	D6	Lam1"	ASTM A572 Gr 50	2,44mX6,09m	0.14	0.73	2.00	1.00	40.48	0.42	40.48	0.42	5%	42.50
5.19		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.15	0.50	4.00	1.00	15.01	0.61	15.01	0.61	5%	15.76
5.20		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.10	0.14	4.00	1.00	2.69	0.11	2.69	0.11	5%	2.83
5.21		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.14	0.16	4.00	1.00	6.70	0.18	6.70	0.18	5%	7.03
5.22	D7	Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.14	0.29	9.00	1.00	27.89	0.75	27.89	0.75	5%	29.29
5.23	D8	Lam1"	ASTM A572 Gr 50	2,44mX6,09m	0.51	0.97	1.00	1.00	98.05	1.01	98.05	1.01	5%	102.95
5.24		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.06	0.31	2.00	1.00	1.85	0.07	1.85	0.07	5%	1.95
5.25		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.13	0.27	2.00	1.00	3.39	0.14	3.39	0.14	5%	3.56
5.26		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.10	0.14	2.00	1.00	0.96	0.06	0.96	0.06	5%	1.02
5.27		Lam1"	ASTM A572 Gr 50	2,44mX6,09m	0.14	0.18	2.00	1.00	10.05	0.10	10.05	0.10	5%	10.55
5.28								1.00	0.00	0.00	0.00	0.00	0%	0.00
										SUB-TOTALES	2.165.31	66.50	5%	2.264.51

ITEM	DESCRIPCION	MATERIAL	CALIDAD	FORMATO	ANCHO (m)	LONG. (m)	CANTIDAD	FC AREA	PESO (kg)	AREA PINTURA (m2)	PESO TOTAL (kg)	AREA TOTAL (m2)	DESPUNTE (%)	PESO CON DESPUNTE (kg)
6.01	Vigas nuevas	W14"x22	ASTM A572 Gr 50	12m		2.91	2.00	1.00	191.35	6.75	574.04	20.25	3%	591.26
6.02	Conexiones - D2	Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.25	0.40	2.00	1.00	14.95	0.40	44.84	1.21	5%	47.08
6.03		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.06	0.30	2.00	1.00	1.85	0.07	5.56	0.22	5%	5.84
6.04	D3	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.17	0.58	2.00	1.00	9.75	0.39	29.24	1.18	5%	30.70
6.05								1.00	0.00	0.00	0.00	0.00	0%	0.00
										SUB-TOTALES	653.68	22.86	3%	674.88

7 Escaleras principales		CANTIDAD		1											
ITEM	DESCRIPCION	MATERIAL	CALIDAD	FORMATO	ANCHO (m)	LONG. (m)	CANTIDAD	FC AREA	PESO (kg)	AREA PINTURA (m2)	PESO TOTAL (kg)	AREA TOTAL (m2)	DESPUNTE (%)	PESO CON DESPUNTE (kg)	
7.01	Guadara	Tubco300x100x7	ASTM A500 Gr C	6m		53.38	2.00	1.00	4.387.84	85.41	4.387.84	85.41	4%	4.563.35	
7.02	Columnas principales	Tubco12"x12"x10	ASTM A500 Gr C	6m		17.80	4.00	1.00	6.339.65	85.44	6.339.65	256.32	4%	6.593.23	
7.03	Columnas voladizo	PTEC6"x6"x4.5	ASTM A500 Gr C	6m		17.80	2.00	1.00	729.44	21.70	729.44	65.11	4%	758.62	
7.04	Vigas principales	Tubco16"x6"x9	ASTM A500 Gr C	6m		3.81	4.00	1.00	1.228.34	16.29	1.228.34	54.86	4%	1.277.48	
7.05	VAT1	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.30	56.24	2.00	1.00	1.682.17	67.82	1.682.17	203.76	4%	1.749.46	
7.06		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.15	26.24	2.00	1.00	1.260.97	34.07	1.260.97	102.20	4%	1.311.41	
7.07	VAT1 perimetral	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.30	50.50	2.00	1.00	613.00	24.75	613.00	74.25	4%	637.52	
7.08		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.15	20.50	2.00	1.00	459.51	12.41	459.51	37.24	4%	477.89	
7.09	Descansos	Tubco3"x3"x3	ASTM A500 Gr C	6m		121.04	1.00	1.00	768.60	36.31	768.60	108.94	4%	799.35	
7.10		PTEC8"x4"x4.5	ASTM A500 Gr C	6m		10.80	1.00	1.00	221.29	6.98	221.29	19.75	4%	230.14	
7.11	Peldaños	Lam3/16"	ASTM A572 Gr 50	1,22mX2,44m	0.50	1.80	78.00	1.00	2.623.09	141.07	2.623.09	423.20	4%	2.728.02	
7.12		Lam3/16"	ASTM A572 Gr 50	1,22mX2,44m	1.80	2.07	6.00	1.00	836.56	44.99	836.56	134.97	4%	870.03	
7.13		Lam3/16"	ASTM A572 Gr 50	1,22mX2,44m	1.80	2.52	6.00	1.00	1.016.95	54.69	1.016.95	164.07	4%	1.057.63	
7.14	Cubierta - VAT3	Lam3/16"	ASTM A572 Gr 50	1,22mX2,44m	0.16	3.97	2.00	1.00	47.47	2.55	47.47	7.66	4%	49.37	
7.15		Lam3/16"	ASTM A572 Gr 50	1,22mX2,44m	0.37	3.97	2.00	1.00	108.29	5.82	108.29	17.47	4%	112.62	
7.16	VAT3 - perimetral	Lam3/16"	ASTM A572 Gr 50	1,22mX2,44m	0.16	7.45	2.00	1.00	89.10	4.79	89.10	14.38	4%	92.67	
7.17		Lam3/16"	ASTM A572 Gr 50	1,22mX2,44m	0.37	7.45	2.00	1.00	203.27	10.33	203.27	32.80	4%	211.40	
7.18	VAT2	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.15	3.82	2.00	1.00	57.13	2.31	57.13	6.92	4%	59.41	
7.19		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.30	3.82	1.00	1.00	57.13	2.31	57.13	6.92	4%	59.41	
7.20	Correas	2PHRC305x80x2	ASTM A1011 Gr 50	6m		31.02	1.00	1.00	485.15	28.85	485.15	86.55	4%	504.56	
7.21	Riostras	Vat1/2"	ASTM A36	6m		33.20	1.00	1.00	33.01	1.32	33.01	3.97	4%	34.34	
7.22	Conexiones - D1	Lam1 1/4"	ASTM A572 Gr 50	1,83mX6,09m	0.70	0.70	3.00	1.00	366.38	3.03	366.38	9.10	4%	381.03	
7.23	Correas	Lam3/4"	ASTM A572 Gr 50	1,22mX2,44m	0.18	0.20	12.00	1.00	64.96	0.98	64.96	2.66	4%	67.56	
7.24		Lam3/4"	ASTM A572 Gr 50	1,22mX2,44m	0.70	0.60	1.00	1.00	125.62	1.71	125.62	5.14	4%	130.64	
7.25		Lam3/4"	ASTM A572 Gr 50	1,22mX2,44m	0.20	0.30	6.00	1.00	53.84	0.73	53.84	2.20	4%	55.99	
7.26	D2	Lam5/8"	ASTM A572 Gr 50	1,83mX6,09m	0.50	0.70	1.00	1.00	43.60	0.71	43.60	2.13	4%	45.35	
7.27	D3	Lam1/2"	ASTM A572 Gr 50	1,83mX6,09m	0.22	0.65	2.00	1.00	28.51	0.58	28.51	1.74	4%	29.65	
7.28	D4	Lam1"	ASTM A572 Gr 50	2,44mX6,09m	1.25	2.10	12.00	1.00	6.280.79	64.60	6.280.79	193.80	4%	6.532.02	
7.29		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.07	0.21	24.00	1.00	16.09	0.73	16.09	2.19	4%	17.81	
7.30		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.09	0.98	24.00	1.00	105.56	4.26	105.56	12.79	4%	109.78	
7.31		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.15	0.89	12.00	1.00	119.45	3.23	119.45	9.68	4%	124.23	
7.32		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.13	0.15	12.00	1.00	17.22	0.47	17.22	1.40	4%	17.91	
7.33	D5	Lam5/8"	ASTM A572 Gr 50	1,83mX6,09m	0.85	0.85	10.00	1.00	900.09	14.68	900.09	44.04	4%	936.09	
7.34		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.07	0.21	20.00	1.00	15.07	0.61	15.07	1.83	4%	15.68	
7.35	D6	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.07	0.16	198.00	1.00	108.11	4.41	108.11	13.22	4%	113.47	
7.36	D7	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.08	0.21	12.00	1.00	10.30	0.42	10.30	1.25	4%	10.71	
7.37	D8	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.07	0.21	12.00	1.00	9.04	0.37	9.04	1.10	4%	9.41	
7.38	D12	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.40	0.40	4.00	1.00	31.90	1.29	31.90	3.86	4%	33.18	
7.39		Lam5/8"	ASTM A572 Gr 50	1,83mX6,09m	0.15	0.21	8.00	1.00	31.39	0.51	31.39	1.54	4%	32.35	
7.40		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.40	0.40	4.00	1.00	95.66	2.58	95.66	7.75	4%	99.48	
7.41	D13	Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.14	0.29	12.40	1.00	12.40	0.50	12.40	0.83	4%	12.89	
7.42	D14 - portacorreas	Lam3	ASTM A572 Gr 50	1,22mX2,44m	0.18	0.29	6.00	1.00	7.38	0.63	7.38	1.88	4%	7.87	
7.43		Lam3	ASTM A572 Gr 50	1,22mX2,44m	0.08	0.29	12.00	1.00	6.56	0.56	6.56	1.88	4%	6.82	
7.44		Lam3	ASTM A572 Gr 50	1,22mX2,44m	0.08	0.18	12.00	1.00	6.00	0.52	6.00	0.52	4%	6.16	
7.45	D15	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.05	0.13	6.00	1.00	2.89	0.17	2.89	0.47	4%	3.04	
7.46		L2"x1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.08	0.12	6.00	1.00	3.42	0.14	3.42	0.41	4%	3.56	
7.47	D16	Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.27	0.27	3.00	1.00	13.96	0.88	13.96	1.13	4%	14.32	
7.48	D19	Lam3/4"	ASTM A572 Gr 50	1,22mX2,44m	0.12	0.29	3.00	1.00	15.50	0.21	15.50	0.83	4%	16.12	
7.49	D21	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.06	0.21	4.00	1.00	2.60	0.10	2.60	0.31	4%	2.70	
7.50	Pasamanos - paralelos	Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m	0.05	1.10	12.00	1.00	493.23	13.33	493.23	39.98	4%	512.96	
7.51	Conexión	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m	0.05	0.10	60.00	1.00	14.95	0.60	14.95	1.81	4%	15.55	
7.52	Rodamientos	Tubod2"x2"x1.5	ASTM A500 Gr C	6m		54.00	2.00	1.00	246.24	21.60	246.24	64.80	4%	256.09	
7.53	Codo	Tuboc91.1/2"x1.5	ASTM A500 Gr C	6m		0.19	60.00	1.00	19.41	1.71	19.41	5.13	4%	20.29	
7.54								1.00	0.00	0.00	0.00	0.00	0%	0.00	
7.55								1.00	0.00	0.00	0.00	0.00	0%	0.00	

	CANTIDADES PARA COTIZACIÓN										FPS04-02
											Versión 0
	CLIENTE:	Convel							FECHA:	28/03/2014	
	PROYECTO:	Linea directa - Palmas							No COTIZACIÓN:	2016-045	
	ELABORO:								REVISO:		

9.02	Vigas principales	W12"x14	ASTM A572 Gr 50	12m					3.66	1.00	1.00	76.65	3.56	153.30	7.12	4%	159.43
9.03		W12"x14	ASTM A572 Gr 50	12m					6.10	1.00	1.00	128.10	5.95	296.20	11.90	4%	266.45
9.04		W12"x14	ASTM A572 Gr 50	12m					3.50	1.00	1.00	73.50	3.41	147.00	6.83	4%	152.88
9.05		W12"x14	ASTM A572 Gr 50	12m					6.60	1.00	1.00	138.60	6.44	277.20	12.87	4%	288.29
9.06		W6"x15	ASTM A572 Gr 50	12m					2.00	1.00	1.00	45.00	1.75	80.00	3.50	4%	93.60
9.07		PHRC100x50x1.5	ASTM A1011 Gr 50	6m					6.55	1.00	1.00	16.57	2.93	33.14	5.87	4%	34.47
9.08		PHRC100x50x1.5	ASTM A1011 Gr 50	6m					6.45	1.00	1.00	16.32	2.89	32.64	5.78	4%	33.94
9.09	Vigas secundarias	PHRC100x50x1.5	ASTM A1011 Gr 50	6m					3.53	15.00	1.00	133.85	23.70	267.70	47.40	4%	278.41
9.10	Conexiones - D1	Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m		0.20			0.20	4.00	1.00	11.96	0.32	23.91	0.65	4%	24.87
9.11		Lam3/8"	ASTM A572 Gr 50	1,22mX2,44m		0.20			0.20	4.00	1.00	11.96	0.32	23.81	0.65	4%	24.87
9.12	D3	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m		0.11			0.29	30.00	1.00	48.38	1.95	96.72	3.91	4%	100.59
9.13	D4	L51x3,2	ASTM A36	6m					0.10	60.00	1.00	14.76	1.19	29.52	2.37	4%	30.70
9.14	D5	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m		0.11			0.29	4.00	1.00	6.45	0.26	12.90	0.52	4%	13.41
9.15	D6	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m		0.13			0.38	1.00	1.00	2.49	0.10	4.98	0.20	4%	5.18
9.16	D7	Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m		0.12			0.19	3.00	1.00	3.48	0.14	6.96	0.28	4%	7.24
9.17	D8	Lam5/8"	ASTM A572 Gr 50	1,83mX6,09m		0.45			0.45	2.00	1.00	50.45	0.82	100.91	1.65	4%	104.95
9.18		Lam1/4"	ASTM A572 Gr 50	1,22mX2,44m		0.07			0.21	2.00	1.00	1.51	0.06	3.01	0.12	4%	3.14
9.19	D9	Lam5/8"	ASTM A572 Gr 50	1,83mX6,09m		0.25			0.65	6.00	1.00	121.47	1.98	242.93	3.96	4%	252.65
9.20											1.00	0.00	0.00	0.00	0.00	0%	0.00
9.21											1.00	0.00	0.00	0.00	0.00	0%	0.00
9.22											1.00	0.00	0.00	0.00	0.00	0%	0.00
												SUBTOTALES		2,711.10	136.21	4%	2,819.55

9 CONEXIONES																
ITEM	DESCRIPCION	MATERIAL	CALIDAD	FORMATO				% DEL PESO				PESO TOTAL (kg)	AREA TOTAL (m2)	DESPUNTE (%)	PESO CON DESPUNTE (kg)	
9.1	PLATINERIA	Lam9	ASTM A36	1,83mX6,09m				3%				5,802.64	218.32	0%	5,802.64	
												SUBTOTAL	5,802.64	218.32	0%	5,802.64

TOTALES	199,223.97	7,495.65	4%	208,145.49
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LOCALIZACIÓN	AREA (m2)	ESTRUCTURA		PINTURA	
		PESO (kg)	Ka (kg/m2)	AREA PINTURA (m2)	Kp (m2/Ton)
Cubierta piso 3	1042.30	61201.09	58.72	2245.66	36.71
Ampliación losa 3	994.5	48215.84	48.48	1321.21	27.40
Escaleras de emergencia	320.97	36622.29	114.10	870.24	23.76
Intervención piso 2	60.64	2230.27	36.78	68.49	30.71
Intervención piso 1,2 y 3	52.2	673.29	12.90	23.55	34.98
Escaleras principales	303.4	33488.57	110.4	2413.99	72.08
Escaleras interiores	132.9	14000.18	105.33	411.21	25.37
Mecanismos técnicos	42.1	2792.44	66.4	140.30	50.24
TOTALES	2,949.05	199,223.97	67.56	7,495.65	37.62

OBSERVACIONES



CANTIDADES PARA COTIZACIÓN

FPS04-02
Versión 0

CLIENTE:	Convel	FECHA:	28/03/2014
PROYECTO:	Línea directa - Palmas	No COTIZACIÓN:	2016-045
ELABORO:		REVISO:	