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REFERENCES

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PRESSURE VESSELS | COLUMNS | HOPPERS | OVERLAY | SILOS | AIRCOOLERS | FILTERS | MINING | SECONDARY STEEL | DUCT | HEAT EXCHANGERS | SKIDS

PRESSURE VESSELS 1997

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SNC BUTAGAZ	A 52 FP Z35	106	38,24		4600	19		
STATOIL	SA 105	0,243	7,7		1420	22	153 bar (g)	100

PRESSURE VESSELS 1998

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR DANIEL	A-240-Tp316	1500	2,5		610	5	1,03 barg	450ºC
REPSOL QUIMICA	SA 240 Tp. 304	12,1	10		3100	10	1,75 kg/cm2	80

PRESSURE VESSELS 1998

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
DUPONT IBERICA			2,5		766			

PRESSURE VESSELS 1999

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TECHNIP BENELUX	A 314 304L	1150	4		559	5	6 kg/cm2g	165ºC
TECHNIP BENELUX	A 516 Gr70	3450	7,2		468	15	46 kg/cm2g	260ºC
TECHNIP BENELUX	A 516 Gr70	1100	3,5		304	12	42 kg/cm2g	310ºC

PRESSURE VESSELS 1999

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TECHNIP BENELUX	A-106-GrB	1915	5		16"	12,7	42 kg/cm2g / FULL VACUUM	256ºC
TECHNIP BENELUX	A-106-GrB / A-516-70	1725	4,1		14"	10	40 kg/cm2g	150ºC
TECHNIP BENELUX	A-240-304L	2900	4,9		20"	10	30 kg/cm2g	120ºC
TECHNIP B.V.	SA 240 304L	20 kg/cm2 (g)	4,3		800	12	60	
DUPONT IBERICA								

PRESSURE VESSELS 2000

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
REPSOL QUIMICA	A 240 TP. 304 L		4,5		1775	21		
REPSOL QUIMICA	A 240 TP. 304 L		5,5		2040	24		
AZSA	A 240 TP. 316 L		3,2		3000			
TECHNIP BENELUX B. V.	A-516 Gr. 70		5		750			
REPSOL QUIMICA	SA 240 Tp. 304 L	12	7		1900	19	39kg/cm2	120/-45
REPSOL PETROLEO	SA 387 Gr.11 + SA 240 Tp.321	1,8	8,5		1900	29	34Kg/cm2	430

PRESSURE VESSELS 2000

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TECHNIP BENELUX B. V.	SA 516 Gr. 70	3,4	5,305		1200	10	3,5 kg/cm2	220
INTECSA/UHDE	TStE 355	0,55	2,36		550	11	40 barg (g)	250/ -7
INTECSA/UHDE	X6CrNiTi18 .10	6,1	6,5		2040	25	40 bar (g)	160/ -7
INTECSA/UHDE	X6CrNiTi18 .10	3	4,2		1150	28	41 bar (g)	160/ -5
INTECSA/UHDE	X6CrNiTi18 .10	0,5	3,94		800	10	6 bar (g)	10

PRESSURE VESSELS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INTECSA / INTERQUISA	A-240 Tp. 304 L	1,98 T	14		350	10	2 kg/cm2	150
INTECSA-INTERQUISTA	A-240 Tp.304L		14		350			
JORDAN BROMINE COMPANY	A-240 Tp.316L.	1,5 T	5		1525	6	5 BAR(G)/F.V.	150
JORDAN BROMINE COMPANY	A-240 Tp.316L.	1,6 T	4,4		1600	8	5 BAR(G)/F.V.	150
JORDAN BROMINE COMPANY	A-240 Tp.316L.	1,6 T	2,5		1600	8	7 BAR(G)/F.V.	270
JORDAN BROMINE COMPANY	A-240 Tp.316L.	1,1 T	3		1221	6	7 BAR(G)/F.V.	200

PRESSURE VESSELS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
JORDAN BROMINE COMPANY	A-240 Tp.316L.	0,5 T	2,55		725	5	10 BAR (G)	150
JORDAN BROMINE COMPANY	A-240 Tp.316L.	5,5 T	3,75		2300	10	7 BAR(G)/F.V.	205
INTECSA-UHDE	A-516 Gr.60, A-179		6,9		1170			
ABC	SA 106 Gr.B/SA 234 WPB	0,105	7		400	5,3	14 bar	180
ABC	SA 106 Gr.B/SA 234 WPB	0,085	8,6		400	5,3	14 bar	180

PRESSURE VESSELS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABC	SA 106 Gr.B/SA 234 WPB	0,195	6,25		384	6,7	45 bar	180
ABC	SA 106 Gr.B/SA 234 WPB	0,055	3,2		203,2	7,04	45 bar	180
ABC	SA 240 304 L	0,125	8,28		411	12	30 bar	100
T.I.S	SA 240 304/304L		11,2		3000	24	17	150(-170)
KVAERNER PULPING	SA 240 TP 304		13,5		4100	11	1 bar (g)	120
DRESSER RAND	SA 516 Gr 60		3		771	20	52 kg/cm2	70

PRESSURE VESSELS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
KVAERNER PROCESS	SA 516 Gr. 70	2,7	4		810	20	60	130
JORDAN BROMINE COMPANY	SA 516 Gr. 70N	2000				7	22	25,8 bar (g)
ABC	SA 53 E/B	0,07	5		406,1	6,35	14 bar	180
ABC	SA 53 E/B	0,1	6,1		406,1	6,35	30 bar	180
F.D./DUPONT	SA-240 Tp.316L	3,2	0,5		2350	8	F.V./3,44 bar (g)	100
BASELL POLIOLEFINAS IBERICA	TStE 355		2,6		610	18	40 bar (g)	160 (-70)

PRESSURE VESSELS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INTECSA/UHDE	TStE 356	0,1	2,05		323,9	10	8 bar (g)	
FOSTER WHEELER CHILE			40		3658	15	2,81 kg/cm2	400(146)

PRESSURE VESSELS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PETROBRAS	A 516 Gr 70N	7	4,7		1150	44,45	93,5kgf/cm2	80

PRESSURE VESSELS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED	BS 1501/224 490B LT50 + SA 240 TP 316 L	6,5	3,6		1300	30+3	90	93/-25
SHELL PETROLEUM DEVELOPMENT COMPANY OF	BS 1501/224 49OB LTSO	22,25	4		2300	66,5	100	9,3-(-25)
SHELL PETROLEUM DEVELOPMENT COMPANY OF	BS 1501/224 49OB LTSO + SA 240 TP 316L	6,9	3,6		1300	30+3	90 bar (g)	93/ -25

PRESSURE VESSELS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TECNICAS REUNIDAS	SA 387 GR 11 CL2 + SA 240 TP 347	60	24		2000	25+5	46,7	370
TECNICAS REUNIDAS	SA 387 GR 91 CL2N	14,5	6		1900	20	4,25 BARG	INT 520 EXT 160
ENTREPOSE/PAR AGON LITWIN	SA 516 70+SA 240 316L	3,8	5		1000	17+3	30 bar (g)	100
FOSTER WHEELER CHILE	SA 516 Gr 60N	31,2	20		1700	32	37,6kg/cm2	100
TECNICAS REUNIDAS	SA 516 Gr 60N	13,6	12		1900	21	16,9	260

PRESSURE VESSELS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TECNICAS REUNIDAS	SA 516 Gr 60N	6,7	10		1200	22	27 bar (g) INT/OUT F.V.	150
PETROBRAS	SA 516 Gr 70N	12,5	7		1850	27	34,6 kgf/cm2	260
SYNCRUDE	SA 516 Gr 70N	20	6,5		2438	45	635 psig	66
SYNCRUDE	SA 516 Gr 70N	6,5	7		2286	14,29	190 psig EXT15 psig INT	70 INT 149 EXT
SYNCRUDE	SA 516 Gr 70N	190 psig EXT 15 psig INT	28,8		2896	18,8	42	
SYNCRUDE	SA 516 Gr 70N	21	12		1626	19,05	vessel 174 psig jacket (15 EXT 100 INT)	VESSEL 314 JACKET 343

PRESSURE VESSELS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SYNCRUDE	SA 516 Gr 70N	6,5	7		2591	14,29	65 psig INT 15 psig EXT	204 INT 149 EXT
TECNICAS REUNIDAS	SA 516 Gr 70N	28	15		2592	26	19,7 bar (g)	245
SYNCRUDE	SA 516 Gr 70N + SA 240 304L	140	49		3556	15,88+3,2	INT 50 psig EXT 15 psig	420 INT 149 EXT
PETROBRAS	SA 516 Gr. 60	5	7,4		1650	9,5	6,5 kgf/cm	171
PETROBRAS	SA 516 Gr. 60N	5	3		1630	12,5	9 kgf/cm2	70
PETROBRAS	SA 516 Gr. 60N	3	2,7		1330	9	ATMOSPHERIC	180

PRESSURE VESSELS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PETROBRAS	SA 516 Gr. 60N	20	39		1200	9,5	3,5kgf/cm2	157
PETROBRAS	SA 516 Gr.60N	40	15		4125	16	3,8 kgf/cm2	77
TECNICAS REUNIDAS	SA 516 Gr.60N	6,7	10		1200	22	27 bar (g)	150
TECNICAS REUNIDAS	SA 516 Gr.60N	INT. 10,5 BAR/OUT F.V.	6,1		1000	12	295	
FOSTER WHEELER	SA 516 Gr.70N		35		7772	20	3,1kg/cm2	343 (9MIN)
ENTREPOSE/PARAGON LITWIN	SA 537 CL1	47,6 BAR	10		2169	20	80(-55)	

PRESSURE VESSELS 2003

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FELEMAMG	A-240 Tp.304L	10 T	2,9		900			
UNIÓN FENOSA GENERACIÓN	A-516 Gr.70	3	1600		7,35 T			
PEERLESS EUROPE	P 355 NH/BS EN 10026	41,7	6,6		2750	76	93,5	90(-17,4)
CEPSA	SA 516 GR 60	42,5	10,8		3000	43	27,5 kg/cm2	225
TECHNIP-COFLEXIP	SA 516 Gr 70	54	17		3800	18	8,4	177
TECHNIP-COFLEXIP	SA 516 Gr 70N	34	10,2		3000	35	28	60 (-49)

PRESSURE VESSELS 2003

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INITEC	SA 516 Gr.60	7,3	21,7		1200	18	3,6 kg/cm2	210
TECHNIP-COFLEXIP	SA 537 CL1 N	26,5 bar (g)	8,6		1400	20	65	
TECHNIP-COFLEXIP	SA 537 CL1 N	7,6	7		1400	20	245	

PRESSURE VESSELS 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PEERLESS EUROPE LIMITED	A-516-70N	1,5 T	4		4020	16		

PRESSURE VESSELS 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PEERLESS EUROPE LIMITED	A-516-70N	1,65 T	3,7		3736	19		
COOL SORPTION	SA 283 Gr.C/ SA 516 Gr.70	0/6,67 bar(g)	1,25		1250	5/6,35	100/-5	
TOTAL FRANCE	SA 333 Gr.6/SA 106 Gr.6/SA 516 Gr. 60	0,95	4		609,1	14,27	3,5bar (g)	150
TOTAL FRANCE	SA 333 Gr.6/SA 106 Gr.6/SA 516 Gr. 61	0,59	2,52		507,6	12,7	30bar (g)	310

PRESSURE VESSELS 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TOTAL FRANCE	SA 333 Gr.6/ SA 106 Gr.8/SA 516 Gr. 62	0,45	3		507,6	9,53	8bar (g)	190
TECNICAS REUNIDAS	SA 387 Gr 11 CL2 T+R+Tp 321	17,7	14,5		1900	20+3	25,3kg/cm2	393
TECNICAS REUNIDAS	SA 387 Gr 11 CL2 T+R+Tp 321	27,5	20		1700	20+3	30,1kg/cm2	340
FLUOR	SA 387 Gr 11 CL2 + TP 321	21	12		2150	25+3	31,3 kg/cm2	395

PRESSURE VESSELS 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TOTAL FRANCE	SA 516 Gr 60	0,75	3,15		700	10	8 bar (g)	190
TECHNIP/TOTAL FRANCE	SA 516 Gr 60	2002	57		5300	31,5	4	387
TECNICAS REUNIDAS	SA 516 Gr 60N	42	28		1500	32	40,9kg/cm2	239
REPSOL YPF	SA 516 Gr 60N	28,5	10		950	40	135,3	250
TOTAL FRANCE	SA 516 Gr 61	0,75	3,15		700	10	8 bar (g)	190
TOTAL FRANCE	SA 516 Gr 70	5,5	7,5		1500	13	17,2 bar (g)	120

PRESSURE VESSELS 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PERLESS	SA 516 Gr 70N	1,5	4		762	0,16	32bar	342(-28)
PERLESS	SA 516 Gr 70N	1,65	3,7		610	0,19	72,4 BARG	343(-28)
JACOBS/PRE MCOR REFINNG GROUPS	SA 516 Gr 70N							
COOL SORPTION	SA 516 Gr.60	3,98	4,9		4880	7	6,7/-1 bar(g)	100

PRESSURE VESSELS 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
JACOBS NEDERLAND B.V.	SA 333 Gr.5/A 516 Gr.70	3	2,64		609,1	24,59	105bar (g)	140/-15
JACOBS NEDERLAND B.V.	SA 333 Gr.6/A 516 Gr.60	0,43	2,034		355,6	15,06	14,8 bar (g)	40
TOTAL FRANCE	SA 516 Gr 60N	4,7	7		1800	10	8 Pa	190
JACOBS NEDERLAND B.V.	SA 516 Gr 60N + HIC	3,4	3,5		1370	13	12	210(-15)
JACOBS NEDERLAND B.V.	SA 516 Gr 60N + HIC	20,65	20		900	33	74	186

PRESSURE VESSELS 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
HANOVER (GB) LTD	SA 516 Gr 70N	340 kPa	12,7		3550	8	145	
JACOBS NEDERLAND B.V.	SA 516 Gr 70N + HIC	23,3	6,5		2007	34	74	265
CEPSA	SA 516 Gr.60	16						
TOTAL FRANCE	SA 516 Gr.60N + HIC	27,2	25,35		3200	14	7,3 bar (g)	150
HANOVER	SA 516 Gr.70N	84 bar (g)	12,5		1000	40	75(-10)	

PRESSURE VESSELS 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
JACOBS NEDERLAND B.V.	SA 516 GRr 60N +HIC	20,65	20	900		33	74	186
ARCELOR				27,8	6190			
IDESA								

PRESSURE VESSELS 2006

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
THE DOW CHEMICAL	sa 240-304/304 l	28,3	85,7		max.=4900		0,896 Mpa	230

PRESSURE VESSELS 2006

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TECNICAS REUNIDAS	SA 387 Gr11 CL2	45	11,7		4100	43	29,5 kg/cm2	430
FOSTER WHEELER IBERIA S.A	SA 516 Gr 70	54,4	19		4200	19	3,52	469
JACOBS	SA 516 Gr 70N	150	25		3968	37	4000 kPa	280
SHELL PETROLEUM DEVELOPMENT COMPANY	SA 517 Gr 70 + 316L	45,8	7,7		1600	23+3	80(-45)	OVERLAY
FLUOR	SA-516 Gr.70 +316 L		7,7		1600	30+3		

PRESSURE VESSELS 2007

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
RAS LAFAN OLEFIN COMPANY	SA 387 Gr11 CL2 + SA 321	7,2	8		800	15+4	35,8kg/cm2	375
BECHTEL - MOTIVA	SA 516 Gr 70	148	39		6096	32	INT (207)/EXT (101)kPa	
TECNICAS REUNIDAS	SA 516 Gr 70 (HIC)	35	13,5		3600	16	7 kgf/cm2 (g)	243
RELIANCE INDUSTRIES LIMITED	SA 516 Gr 70N	83 kg/cm2	27,7		2800	87	150	
FLUOR/MARATHON P.C	SA 516 Gr 70N & HIC	74,2	29		2591	34,93	40 PSIG	

PRESSURE VESSELS 2007

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR/MARATHON P.C	SA 516 Gr.70	73,34	33,4		3658	23,81	175 psig	485 F
BECHTEL-MOTIVA	SA 516 Gr70	148	39	6096		32	INT (207)/EXT(101) kPa	
ENCE/NERVION	SAF 2507	9,1		11,5	4500			

PRESSURE VESSELS 2008

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR CANADA/SIPCHEN	SA 240 316 L	5	6		2400	12	350 kPa	150

PRESSURE VESSELS 2008

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR CANADA/SIPCHEN	SA 240 316 L	3	5		2100	8	350 kPa	100
JACOBS	SA 516 Gr.70 + 316L	33,5	29,3		2900	13+3,5	4,2 bar (g)	160
FLUOR CANADA SIPCHEN	SA-240-316L	6 T	12		1300	8	INT (3,5 barg)/EXT(F.V)	
FLOUR CANADA SIPCHEN	SA-240-316L	6000	12	1300		8	INT (3,5 barg)/EXT(F.V)	

PRESSURE VESSELS 2009

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
GT SOLAR INCORPORATED	SA 516 GR 70N + SA 240 Tp. 316L	22,5	52		2325	10/30+3	9,8	350/250
GT SOLAR INCORPORATED	SA 516 Gr. 70N	12,5	7		1800	22/13	9,8 bar	250/200
GT SOLAR INCORPORATED	SA 516 Gr. 70N	12,5	7		1800	22/13	9,8	250/200
TECHNIP VALERO	SA 516 Gr.70N + SA-240 304L	84	29		3048	13+3,2	3,45	154,44

PRESSURE VESSELS 2011

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
NATIONAL PETROCHEMICAL / OLEFIN PLANT	SA 516 Gr 70	6,3	5,4		1800	14	13,3 bar	150
NATIONAL PETROCHEMICAL / OLEFIN PLANT	SA 516 Gr 70	32	6,4		2300	42	45 bar	82
NATIONAL PETROCHEMICAL / OLEFIN PLANT	SA 516 Gr 70	18,9	4,2		3400	17	10,5 bar	100
NATIONAL PETOCHEMICAL /OLEFIN PLANT	SA 516 Gr70	18,9	4,2	3400		17	10 bar	100

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PRESSURE VESSELS 2012

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PETROBRAS	SA 387 Cr 11 CL 2	48000	12		2200	75	99,6 bar	300

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INTECSA INDUSTRIES	SA 240 Tp. 316L		2,35		800	10	5,75 bar	110
INTECSA INDUSTRIES	SA 240 Tp. 316L		2,35	800		10	5,75 bar	110
ABEINSA	SA 516 Gr 70		5,41		2200		27 bar	60

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr 70		5,5		2536	18	0,59 Mpa	400
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr 70		4,05		1532	16	0,56 Mpa	80
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr 70		5,1		2640	20	0,35 Mpa	80
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr 70		8,1		4100	26	0,55 Mpa	80
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr 70		6,7		2836	18	0,35 Mpa	190

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr 70		7,3		1932	16	1,28 Mpa	80
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	4710	5,535		1800			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	28300	14		3500			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	8850	11,06		2000			

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PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	13600	16,825		2000			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	4900	11,495		1000			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	24200	11,8		4450			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	20800	14,31		4460			

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	8000	8,5		2555			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	10500	7,6		2555			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	13900	9,105		3825			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	7380	9,9		2555			

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1150	3,4		500			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	5300	14,668		5300			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	2000	4,304		2000			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	900	3,5		900			

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1200	5,05		1200			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	900	3,925		900			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1700	9,9		1700			

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1300	4,664		1300			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	680	3,05		600			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	5218,7	7,105		1800			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	3000	5,42		1500			

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	2555	9,35		7,59			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1150	1500		3,885			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1346	2025,9		4,375			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1570	3600		4,792			

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PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	3450	5415		1500	12	10,3 barg	230
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	508	1050		3,605			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	900	2000		4,45			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	500	900		3,85			

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PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	407	600		3,47			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	305	550		3,285			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1700	2020		14,95			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	4000	23450		8,7			

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PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	2555	8800		9,5			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	2555	7500		7,8			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	4460	22200		14,31			
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1100	2350	3,75				

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PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1100	1400	4,2				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1100	1550	4,7				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1800	1300	3,525				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	584	880	2,825				

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	584	750	2,84				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	5300	14668	5300				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	2000	4304	2000				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	900	3,5	900				

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PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1200	5,05	1200				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	900	3,925	900				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1700	9,9	1700				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	1300	4664	1300				

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	680	3,05	600				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	5218,7	7105	1800				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	3000	5,42	1500				
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	2555	9,35	7,59				

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PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABEINSA	SA 516 Gr70		5,41	2200			27 BAR	60
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr70		5,5	2536		18	0,59 MPa	400
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr70		4,05	1532		16	0,56 Mpa	80
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr70		5,1	2640		20	0.35 Mpa	80

PRESSURE VESSELS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr70		8,1	4100		26	0.55 Mpa	80
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr70		6,7	2836		18	0.35 Mpa	190
FELGUERA CONSTRUCCIONES MECÁNICAS, S.A.	SA 516 Gr70		7,3	1932		16	1.28 Mpa	80
SABIC IP	SA-240 UNS S31254		2000		700	3	3,5 bar	210

PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
IBERDROLA	13CrMo4-5		3,726		800	8	3,5	553
ABANTIA	16 Mo3 (1.5415)/ EN-10028-2	16052	7,52				87 / 83 (bar)	330 / 420
TGE GAS ENGINEERING	SA 106 Gr B	185	480 (mm)		400	10	0,4 bar	110
TÉCNICAS REUNIDAS	SA 106 Gr.B		1,932		24"	SCH 40	27,5 bar	120
TGE GAS ENGINEERING	SA 106 GR.B		480 mm	400			0.4 bar	110

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PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TGE GAS ENGINEERING	SA 213 Tp. 304L		3,9	1300			3 bar	50
IBERDROLA	SA 240 TP 304L		2,2		1500	10	11	60
TGE GAS ENGINEERING	SA 240 Tp. 304L	2643	3,9		1300	8	3 bar	60
REPSOL	SA 240 Tp.316L	11785	4,7		1600	8	3,5	80
SMURFIT KAPPA	SA 240 UNS 32304		22,25		4500	20	7	170

PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
JOHN ZINK HAMWORTHY	SA 516 - 60		5		1600	12	10,5	90
IBERDROLA	SA 516 70		5,608		2500	10	3,5	400
IBERDROLA	SA 516 GR 60N		13		3000	10	3,5	56
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 GR 70		5,5		2200	8	1,7	82
IBERDROLA	SA 516 GR 70		2,2		1500	12	11	60

PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FOSTER WHEELER	SA 516 Gr 70	4100	6		900	12	3,5 bar	260
FOSTER WHEELER	SA 516 Gr 70	3850	4,6		900	11	3,5 bar	260
TÉCNICAS REUNIDAS - SADARA	SA 516 Gr 70 N		5,5		2200	10	1,7 bar	82
TÉCNICAS REUNIDAS - SADARA	SA 516 Gr 70 N		8,125		3650	25	15,7/10 bar	70/150
TÉCNICAS REUNIDAS - SADARA	SA 516 Gr 70 N		1,7		600	10	25 bar	82

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PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS	SA 516 Gr 70 N		2,1		500	8	15 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr 70 N		6,6		2200	16	10 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr 70 N		4,2		1400	16	14,5 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr 70 N		6,9		2300	10	3,5 bar	350
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 GR 70 N	1023,1	1,7		600	10	25	82

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PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS	SA 516 Gr 70N		5,4		1800	26	27,5 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr 70N		2		20"	SCH XS	35,5 bar	140
TÉCNICAS REUNIDAS	SA 516 Gr 70N		2,36		1200	13	3,5 bar	120
TGE GAS ENGINEERING	SA 516 Gr 70N	2524	3,6		1200	10	10 bar	100
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 GR 70N		3,65		3650	25	15,7/10	(70/150) / (70/150)

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PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FOSTER WHEELER	SA 516 Gr70	28500	24		900	12	11 bar	260
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70		5,5	2200		10	1.7 bar	82
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70		8,125	3650		25	15,7/10 bar	70/150
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70		1,7	600		10	25 bar	82

PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS	SA 516 Gr70		2,1	500		8	15 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr70		6,6	2200		16	10 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr70		5,4	1800		26	27,5 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr70		4,2	1400		16	14,5 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr70		2	20´´		SCH XS	35.5 bar	140

PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS	SA 516 Gr70		4,45	1600		12	3.5 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr70		2,36	1200		13	3.5 bar	120
TÉCNICAS REUNIDAS	SA 516 Gr70		6,9	2300		10	3.5 bar	350
TGE GAS ENGINEERING	SA 516 Gr70	172	3,6	1200			10 bar	100
FOSTER WHEELER	SA 516 Gr70+2,5 mm 304L CLAD	7350	24,75		457,2	10	9,4 bar	260

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PRESSURE VESSELS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS	SA 516 Gr70N		4,45		1600	12	3,5 bar	120
JOHN ZINC HAMWORTHY COMBUSTION		1515	8,996		900	10	3 bar	150
ABANTIA		31311	8,963		4400		84 (bar) (WATER) / 346 (mbar) (GAS)	325 (WATER) / 565 (GAS)
ABANTIA		20264	3,1 T.L. TO T.L.		1800 (O.D.)		84 (bar)	315
JOHN ZINC HAMWORTHY COMBUSTION		1515	8.996	900		10	3 bar	150

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PRESSURE VESSELS 2015

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
LEROUX AND LOTZ	A 516 GR 70 N	4600	3,15		2064	20	12	250
AGAR DE ASTURIAS	AISI 316L/AISI-304	N/A	20,345	1200	N/A	30	N/A	N/A
NOVARGI - TAKREER	S 275 JR	5450,2	6028		1910	N/A	N/A	300
NOVARGI - TAKREER	Sa 240 Cr.316	355,9	2,95		1430x950x 650	5;6;10;15	Atmospher ic	80
TGE GAS ENGINEERING	SA 240 TP 304L	8936	5,725		2100	22	20 bar	100
NOVARGI - TAKREER	SA 516 GR 60	807,4	1,8	N/A	610	8	3,5	120

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PRESSURE VESSELS 2017

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
DURO FELGUERA	SA-204-Gr.b + 410S	24500			7500		0,43	

PRESSURE VESSELS 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INTECSA INDSUTRIAL - OCP	S 275 JR	1555	2377		1710	5	ATM	
INTECSA INDSUTRIAL - OCP	SA 516 70	23,79t	8600		3660	10	3,5 barg	

PRESSURE VESSELS 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INTECSA INDSUTRIAL - OCP	SA 516 70	5 t	5000		1845	10	3,5 barg	
INTECSA INDSUTRIAL - OCP	SA 516 70	3000	2000		1000	6	3,5 barg	
INTECSA INDSUTRIAL - OCP	SA 516 70	6,64 t	7300		2000	12	10 barg	
INTECSA INDSUTRIAL - OCP	SA 516 70	4,85 t	5950		2200	10	3,5 barg	
INTECSA INDSUTRIAL - OCP	SA 516 70	2.9 t	3070		1600	10	10 barg	
PEQUIVEN	SA 516 GR 70N	8157	10		3000		Atmospheric	

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PRESSURE VESSELS 2019

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
WOODS	P265GH	2306	3000		1250	10	Atmospheric	
REPSOL	SA 516 GR 60	13500	4700		1750	35	40,8 bar	

PRESSURE VESSELS 2020

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SENER	P265GH	106190	11,388		3200	22	3,5	150

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PRESSURE VESSELS 2020

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
WOODS	P265GH	1650	2,8		1000	18	26 BAR	230
ESINDUS	SA-516 GR60	11649	7,2		2600	15	150 Mpa	120
COBRA	SA-516 GR70N	13450	7,2		2700	15	3,5	250

PRESSURE VESSELS 2021

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PDVSA	SA 516 70	4456	4261		9050	12	8,16	149

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PRESSURE VESSELS 2022

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
COMSPAIN	S304L	15000	7000		3200	12	ATM	

PRESSURE VESSELS 2023

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
DOW CHEMICAL	S 240 -316	6615	7000		4000	6	ATM	150

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COLUMNS 1999

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
KAVAERNER PROCCES	SA 516 Gr.70	18,1	21,9		914	12	0,83 bar (g)	176,67
KAVAERNER PROCCES	SA 516 Gr.70/ SA 240 304L	42,5	35		1676	12	3,7 psgi	176,67

COLUMNS 2000

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
REPSOL QUIMICA	SA 240 Tp. 316 L	5,6	14,5		1000	8	4,5 kg/cm2	88

COLUMNS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INTECSA-UHDE	A 516-Gr60	10150	7,3		130	13		
JORDAN BROMINE COMPANY	A-240 Tp.304L	7 bar(g)/F.V.	9,9		725	6,35	150	
JORDAN BROMINE COMPANY	A-240 Tp.304L	7 bar(g)/F.V.	6,4		12``	6,35	121	
JORDAN BROMINE COMPANY	A-240 Tp.316L	0,57 T	40,26		15"	4,57	0,17 bar (g)/F.V.	
JORDAN BROMINE COMPANY	A-240 Tp.316L	1,9 T	4		1250	8	2 BAR (G)/F.V.	
JORDAN BROMINE COMPANY	A-240 Tp.316L	3,6 t	16,8		850	12	7 BAR (G)/F.V.	205

COLUMNS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
JORDAN BROMINE COMPANY	A-240-316L, A-516-70	2,1 T	10,4		775	8	2 BAR (G)/F.V.	
REPSOL QUIMICA	SA 240 TP304L		4		590	10	3,5 kg/ cm2	165
TECHNIP/AIR PRODUCTS	SA 240 TP304L		16,5		1100	5	5 kg/cm2	180
INTECSA/INTERQUISA	SA 516 Gr 60N		58		3700	25	2,3 kk/cm2	
INTECSA-UHDE								

COLUMNS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
MAVISA	SA 516 60 + SA SA 240 Tp.410S	5	12,3		1300	6+3,5	3,5 kg/cm2	303
SYNCRUDE	SA 516 Gr 70N	82	32		2591	19,05	230 psig	280 INT 149
SYNCRUDE	SA-516 GR70	14	17		1372	12,7	60 (INT) 15 (INT) psig	385

COLUMNS 2003

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
REPSOL YPF	SA 516 Gr 60/ SA 387 GR12 CL1 + 316L	129	35,2		6700	28	VACUUM	435

COLUMNS 2003

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SYNCRUDE	SA 516 Gr 70N + 309 L+ 308L S.S.	109	47,7		3505	31,75	270 psig INT 15 psig EXT	315 INT 149 EXT
REPSOL	SA 516 Gr.60	19,4	24		2318	10	5,9 kg/cm2	165
MAVISA	SA 516 Gr60 + SB 127 UNS N04400 (monel)	93,3	44		4300	13+3	INT 3,5 kg/cm2/EX T 0,041	388 (-13)
MAVISA	SA 516 Gr60 + SB 127 UNS N04400 (monel)	93,3	44		4300	13+3	INT 3,5 kg/cm2/EX T 0,041	388 (-13)

COLUMNS 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INITEC	SA 516 Gr. 60	79,5	45,5		2800	20	9,7 kg/cm2	257

COLUMNS 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PETRESA	A-516 Gr.70	2,3 t	4,6		1240	9		
TOTAL FRANCE	SA 516 Gr.65N+SA 240 316L/SA 516 Gr.60N + HIC	35	33		1700	10+3/22	3,9 kg/cm2	150
JACOBS NEDERLAND B.V	SA 516 Gr.70 + b 424 uns n08825	42,3	28		1950	15,5+3	11	430(-15)

COLUMNS 2007

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR/MARATHON P.C	SA 516 Gr 70/ SA 516 Gr 70 + SA 240 317L SS	42	32		3353	11,1+3,18	55 psig	625 F
FLUOR/MARATHON P.C	SA 516 Gr.70 + SA 240 317L ACC SA 246	28,5	18		3048	12,7+3,18	55 psig	700 F
RELIANCE INDUSTRIES LIMITED	sa 516 Gr.70+T 316SS	59,8	36		2800	19/15+3	14 kg/cm2	300
FLUOR/MARATHON P.C	SA 516 Gr.70N	86,4	39,7		3353	22,23	175 psig	540 f
RELIANCE INDUSTRIES LIMITED	SA 516 Gr70 + T-321SS/ SA 516 Gr70N	118	41		3900	20+3/28	14 kg/cm2	340

COLUMNS 2007

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
RELIANCE INDUSTRIES LIMITED		19	23,57		18,04	11	10 kg/cm2	250/168

COLUMNS 2008

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR CANADA SIPCHEN	SA 312 316 L	0,7	5		324	6	3,5 bar (g)	160
TECHNIP CEPSA	SA 516 Gr.70/ SA 516 Gr.70+316L	61	40		2600	20+3	3,5 kg/cm2	155/175

COLUMNS 2009

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR/MARATHON P.C	SA 516 Gr70N + SA 240 410S	15,9	22		4420	24,21+2,77	75 psig	300 F
TECHNIP VALERO	SA-516 Gr10N	98	35		2953	30	20,68 bar	232,22
FLUOR/ MARATHON P.C	SA-516 Gr70 + SA 240 416S (cladding)	26	30		1524	9,53+2,77	75	800
FLUOR/ MARATHON P.C	SA-516 Gr70N + SA 240 317L	139	13		4420	25,4+2,77		
FLUOR/ MARATHON P.C	SA-516 Gr70N + SB 443 UNS N06625	139	7,5		4420	19,05+2,77		

COLUMNS 2009

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
VALERO-RICHARD CONSTRUCTION INC	SA-516 Gr70N+SA-240 304L	110	48		2800	23+3,2	3,45	148,9

COLUMNS 2010

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
HELLENIC PETROLEUM S.A	SA 516 Gr70	17	9,5	1900		25	JACKET 7,16 VESSEL 4,9	EXTERIOR JACKET
HELENNIC PETROLEUM S.A	SA-516 Gr.70	17	9,5		1900	25	JACKET 7,16 VESSEL 4,9	EXTERIOR JACKET

COLUMNS 2012

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
DUPONT	AISI 316L	2,2	11		804	8		
IDESA		41	6,9		2469		60	300
ThyssenKrupp AIRPORT SYSTEM			4,5					

COLUMNS 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TÉCNICAS REUNIDAS - SADARA (SAUDI ARAMCO AND DOW CHEMICAL)	SA 516 Gr70	N/A	6,38		1480	10	N/A	N/A

COLUMNS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
DUPONT	SA 106 Gr. B	6600	28,375		609,6	12,7	21 bar	149
FOSTER WHEELER	SA 516 Gr 70	2600	9,2		323,85	9,5	4 bar	260
FOSTER WHEELER	SA 516 Gr70	3200	9,3		610	10	4 bar	260
FOSTER WHEELER	SA 516 Gr70+2,5 mm CLAD 410S	3050	8,3		610	10	4,5 bar	300

COLUMNS 2017

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
REPSOL	SA-516 Gr. 60	7000			2500		4,2	

COLUMNS 2020

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
REPSOL	SA 516 GR 60N		11,317		2800	13	3,5	335

HOPPERS 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INDUSTRIAS LEBLAN			21,24	3,55				
INDUSTRIAS LEBLAN				4,88				
INDUSTRIAS LEBLAN								

HOPPERS 2008

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT								

HOPPERS 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
DAORJE	S275JR / AISI 304L		3,828					

HOPPERS 2015

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PHB		5010	2927	7484				

HOPPERS 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SARRALLE	S 275 JR	280000						

OVERLAY 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
REPSOL	S-516 GR60+ 309L	2580	2000		1524	50	15,5	

SILOS 2001

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INTECSA/INTERQUISA	SA 240 TP304		28		11500		0,106 kg/cm2	175
INTECSA/INTERQUISA	SA 240 TP304		22,1		10024		0,106 kg/cm2	175

SILOS 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
TALLERES ALQUEZAR		54,57		20,78	9238		INT. 13 / EXT. 0,5 (bar)	

AIRCOOLERS 2008

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE	TUBES
ENAGAS	ASTM A516 Gr. 70	24					72 bar	90	486
ATLAS COPCO	ASTM A516 Gr. 70						5 barg	100	270
MANTURBO	SA-516 Gr. 70						1034 kPa	175	148

FILTERS 2000

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ENCE THERMAL POWER PLANT	VARIOUS							

FILTERS 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT	VARIOUS							

FILTERS 2003

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT								

FILTERS 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
GRANDILLA THERMAL POWER PLANT	VARIOUS							
TIRAJANA I, II THERMAL POWER PLANT	VARIOUS							

FILTERS 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SOTO DE RIBERA THERMAL PLANT								

FILTERS 2006

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
CANDELARIA THERMAL PLANT	VARIOUS							

FILTERS 2017

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PALL	SA 516 GR 70	1369	3,998		I.D. 495	10	16 barg	130
PALL	SA 516 GR 70	3912	6,42		I.D. 900	12	9 barg	80

FILTERS 2017

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PALL - SOCAR	SA 516 GR 70		1900		900		16 barg	
PALL - SOCAR	SA 516 GR 70		3200		580		16 barg	
PALL - SOCAR	SA 516 GR 70		2730		900		40 barg	
PALL - SOCAR	SA 516 GR 70		6420		780		9 barg	
PALL - SOCAR	SA 516 GR 70		2565		1600		12 barg	
PALL - SOCAR	SA 516 GR 70		2643		760		12 barg	

FILTERS 2017

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PALL - SOCAR	SA 516 GR 70		2643		800		12 barg	
PALL								

FILTERS 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PALL - SOCAR	SA 333 Gr.6	3334	4,248		584,2	12,7	34,131 barg	99
PALL NETHERLANDS	SA 333 Gr.6/SA 333 Gr.6	325/213	1,78/1,05		XS/120	10´´/4´´	41 barg/10 barg	100/65

FILTERS 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PALL	SA 516 GR 70	18302	4878		1566	20	25 barg	185
PALL	SA 516 GR 70 N	1467,4	3,187		550	16	57,1041	93

MINING 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INSTITUTO NACIONAL DEL CARBON								
TEICE								

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MINING 2007

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ARCELOR MITTAL								
ACERALIA								
ARCELOR								
ARCELOR MITTAL								
ARCELOR MITTAL								
URBASUR								

MINING 2010

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ArcelorMittal	S275JR		101150	1980	1020			

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MINING 2010

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ARCELOR MITTAL		12000	25300	4800				
ARCELOR MITTAL		33000	3100	3100				
ARCELOR MITTAL		220000	3000	280	380 tn			

MINING 2011

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
Rotors and stators			960	4260	4260			
Conveyor belts		106000	800	1600				

MINING 2012

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
Ulma Conveyor Components					156 tn			
ARCELOR MITTAL		290000	900	2400	283 tn			
Duro Felguera Montajes y Mantenimientos		108000	2800	3760				

MINING 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
DURO FELGUERA		13337,12	1863,99	6746,78				

MINING 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
IMASA	S 275 JR							
SACYR INDSUTRIAL - IMASA	S 275 JR	200000						
IMASA	S 275 JR							
DURO FELGUERA	S 275 JR	5 t						

SECONDARY STEEL 2000

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
CEASA								

INDUSTRIAL MOREYPI
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SECONDARY STEEL 2002

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SOTO DE RIBERA THERMAL PLANT								

SECONDARY STEEL 2003

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT	CARBON STEEL							
ABOÑO THERMAL POWER PLANT	VARIOUS							

SECONDARY STEEL 2004

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ETAP HONDURAS		10,762 Tm						
CEMEX								
ACERALIA								
TEICE								

SECONDARY STEEL 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT	CARBON STEEL							

SECONDARY STEEL 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT	CARBON STEEL (HIGH ELASTIC LIMIT)							
ABOÑO THERMAL POWER PLANT	NON-WEAR							
ABOÑO THERMAL POWER PLANT	S 275 JR							
ABOÑO THERMAL POWER PLANT	STAINLEES STEEL/S 355 J2W+N							

SECONDARY STEEL 2005

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
INDUSTRIAS LEBLAN								
UTE DIQUE TORRES		1,01 Tm						
ARCELOR								
AYUNTAMIENTO DE OVIEDO/ SANTIAGO CALATRAVA								
ACERALIA								
UTE VIASTUR								

INDUSTRIAL MOREYPI
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SECONDARY STEEL 2006

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT	AISI-310S							
ABOÑO THERMAL POWER PLANT	VARIOUS							
ABOÑO THERMAL POWER PLANT	VARIOUS							
COCKERILL MECHANICAL INDUSTRIES (CMI)								
CEPSA								
CEPSA								

SECONDARY STEEL 2006

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICK NESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
A.T.P. INGENIERIA S.L.								
THE DOW CHEMICAL COMPANY		37,3 Tm						
TKOC		36,6 Tm						
THE DOW CHEMICAL COMPANY		18,48 Tm						
ABOÑO THERMAL POWER PLANT	AISI-310S							

SECONDARY STEEL 2007

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICK NESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT	ALUMINIUM							
JINAMAR THERMAL POWER PLANT	VARIOUS							
ACERALIA								
GENERALITAT VALENCIANA/ SANTIAGO CALATRAVA								
ALCOA								
ARCELOR								

SECONDARY STEEL 2007

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICK NESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ILUPLAX								
ARCELOR								
MEIRAMA								

SECONDARY STEEL 2008

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
CEPSA								
CEPSA								

SECONDARY STEEL 2009

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICK NESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR/MARATHON P.C	SA 516 Gr 70N	73	23		5077	23,82	5,17	800F
TECNICAS REUNIDAS Y PETROGAL	SA-338 Gr.11 cl2	32	11		2800	51	48,5	415
ABOÑO THERMAL POWER PLANT	VARIOUS							
ARCELOR								
ARCELOR								
ARCELOR								
RIO GLASS								
ALSTROM POWER								

SECONDARY STEEL 2009

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ABOÑO THERMAL POWER PLANT								

SECONDARY STEEL 2010

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
FLUOR	sa-516 gR.70n + sa-240 Tp317L (cladding)	53	28		2438	9,53+3,2	3,45	426,67
Navantia			12000	5000	5000			

SECONDARY STEEL 2010

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
Danieli Procome Iberica		5000	400	1600				

SECONDARY STEEL 2011

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ARCELORMITTAL	S275JR		7000	6000	8000			

SECONDARY STEEL 2012

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
IDESA	SA 516 Gr 70	31	14,2		2250	16	0,9 bar	343
ALTAC								
GHI								
ALTAC			6000	750	5000			

SECONDARY STEEL 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		3815	1350	1250				

SECONDARY STEEL 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
CADAGUA		6300	6920	5510				
CADAGUA		3080	2185	2185	4099,08 Kg			
FELGUERA CONSTRUCCIONES PESADAS S.A.		6172	7378	1450				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		4654	4654	1408				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		5554	5554	1400				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		4656	4656	1400				

SECONDARY STEEL 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		4954	4954	1400				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		4274	4274	1400				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		2377	2377	1016				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		4274	4274	1400				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		4374	4374	1400				

SECONDARY STEEL 2013

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		3874	3874	1400				
THYSSENKRUPP AIRPORT SYSTEMS,S.A.		3728	3262	1400				
POSCO ENGINEERING		66,9	1900	350	1740			
STEELCON				19000	1200			
JOHN ZINK INTERNATIONAL LUXEMBOURG SARL				7701	406			

SECONDARY STEEL 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
CEMENGAL	S 275 JR		15,5		4600			
DEGREMONT								
JOHN ZINK		501			1050 / 1763			
JOHN ZINK					916 / 1612			
CADAGUA		1900	2100	1600	55 Tn			
JOHN ZINK		2200	21577	2200				
ASSIGNINA		9645	9644	904	400 Tn			
JOHN ZINK		3027	1800	700				

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SECONDARY STEEL 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
JOHN ZINK		4500	4800					
ThyssenKrupp AIRPORT SYSTEM		1250	4,691	1250	N/A			
ThyssenKrupp AIRPORT SYSTEM		1250	5,018	1250	N/A			
ThyssenKrupp AIRPORT SYSTEM		1250	4,274	1250	S235JRG2			
ThyssenKrupp AIRPORT SYSTEM		1250	3,474	1250	S235JRG2			

SECONDARY STEEL 2014

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ThyssenKrupp AIRPORT SYSTEM		1250	4724	1250				
ThyssenKrupp AIRPORT SYSTEM		1250	3524	1250	S235/S235 JRG2			
ThyssenKrupp AIRPORT SYSTEM		1250	4274	1250				
STEELCON		4427,7		17600	1000			
ALSTROM POWER			2271	3132	1975			

SECONDARY STEEL 2015

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
NOVARGI - TAKREER	A 275 JR	15710	22,5		4200x4200	10, 20	N/A	N/A
FOSTER WHEELER	SA 106 B, SA 234 WPS, S 275 JR, SA 275 JR, SA 516 Gr. 70	N/A	9,358		14723x7584	N/A	0,69/5,2 barg	385/399
THYSSENKRUPP		1090	6604	1090				
THYSSENKRUPP		1250	5744	1250				
THYSSENKRUPP		863,3	4093	863,3				

SECONDARY STEEL 2015

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
THYSSENKRUPP		1250	5894	1250				
SMULDERS			5440	250	2180			
SMULDERS			5997	150	2963			
SMULDERS			5371	407	2355			
SMULDERS			5674	150	1100			
MITSUBISHI HITACHI								

SECONDARY STEEL 2016

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
THYSSENKRUPP		1244	3124	1250				
THYSSENKRUPP		1250	4224	1250				
AMEC FOSTER WHEELER			70345	70	70			
MITSUBISHI HITACHI								
MITSUBISHI HITACHI								

SECONDARY STEEL 2017

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
GHI		41334	1825	3312	92 Tn			
DURO FELGUERA		8700	3646	650	12300			
GHI		2100	1585	1630	12014			
GHI		28414	1825	3312	29303			

SECONDARY STEEL 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ARCELORMITTAL	S 275 JR	100000						
ARCELORMITTAL	S 275 JR	50000						

SECONDARY STEEL 2019

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
SMULDERS	VL D36							

DUCT 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
ESINDUS	S275JR+St. Galvanaz.	88t			2478			

DUCT 2019

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
COBRA	S 275 JR							

HEAT EXCHANGERS 1999

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
IDESA - TECHNIP	A-312-304L	1150	3903		559	12	8

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
165	BEM	31	300			SA-336-F304L	SA-336-F304L

HEAT EXCHANGERS 2001

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
ECOLUBE	A 516-Gr60	2600	3,7		610	10	21 barg

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
350ºC	BES	14 barg	250ºC	C	2	A-266-Gr4	A-179

HEAT EXCHANGERS 2001

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE	A-516 Gr.60	10,15 T	7,5		1150	13	10,5 Kg/cm2 (g)

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
340							A-179

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HEAT EXCHANGERS 2001

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE	A-516 Gr.60	12,75 T	6,9		1170	13	13 Kg/cm2

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
340							A-179

HEAT EXCHANGERS 2001

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE	A-516 Gr.60	21 T	6,9		1100	13	8,7 Kg/cm2/F. V.

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
340							A-179

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HEAT EXCHANGERS 2001

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
PRAXAIR IBERIA	A240 - 304L, A213-304L	6,6 T	4,55		676	10	46 BARG

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
420	BEM						A-179

HEAT EXCHANGERS 2001

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE							

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES

HEAT EXCHANGERS 2002

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL - DISEPROSA	A 516-Gr60	5300	6,9		781	14	5 kg/cm2g / FULL VACUUM

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
90ºC	AES	7,5 kg/cm2g	70ºC	R	4	A-266-Cl1	A-179

INDUSTRIAL MOREYPI
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HEAT EXCHANGERS 2002

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
ABB	SA 516-Gr60N	12600	7,7		731	31	93,1 barg / FULL VACUUM

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
125ºC / -20ºC	BEM	93,1 barg / FULL VACUUM	125ºC / -20ºC	R	1	CLASS 1, SA-350LF2	SA-213-316L

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HEAT EXCHANGERS 2002

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL			7,4		1519		

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES

INDUSTRIAL MOREYPI
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SINCE 1945

HEAT EXCHANGERS 2002

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
FOSTER WHEELER							

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES

HEAT EXCHANGERS 2003

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL-YPF	A-234-WPB / A-106-GrB	817	4,9		219	8,18	7,7 kgf/cm2g

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
165ºC	AMU	6 kgf/cm2g	165ºC	R	1	A-266-Gr2	A-179

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HEAT EXCHANGERS 2003

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL - YPF	A-516-70	3110	4		713	14	9,10 kg/cm2g

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
210ºC	AJS	11,80 kg/cm2g	315ºC	R	6	A-266-Cl2	A-179

HEAT EXCHANGERS 2003

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL	A-570 Gr 70	3,1	3,77		713	28	11,8 kg/cm2 (g)

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
315ºC	AJS				6	A- 266 CL2	A- 179

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HEAT EXCHANGERS 2003

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL		17300	7,4		886		

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
	DEU	156,5 kg/cm2	304ºC	R	2	A-182-F11 Cl2 + OVERLAY Tp 309/347	A-789 UNS S31803

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HEAT EXCHANGERS 2005

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
HANOVER (GB) LTD	A-106 Gr.B		3,7		289		

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
						A-266-2	A-180

HEAT EXCHANGERS 2005

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
HANNOVER (GB) LTD	A-106-B	1650	3,8		12"	17,45	85 barg

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
110ºC	CONE-E-CONE Vertical	85 barg	110ºC	R	1	A-266-2	A-179

INDUSTRIAL MOREYPI
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SINCE 1945

HEAT EXCHANGERS 2005

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
HANNOVER (GB) LTD	A-106-B	1900	3,9		12"	17,45	99 barg

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
110ºC	CONE-E-CONE Vertical	99 barg	110ºC	R	1	A-266-2	A-179

INDUSTRIAL MOREYPI
WE ARE STEEL
SINCE 1945

HEAT EXCHANGERS 2005

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
JACOBS NEDERLAND B.V	A-333 Gr5 / A-516-Gr60	500	3,4		14"	15	ATM.

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
100ºC / -15ºC		14,8 barg	440ºC/ -15ºC			A-333-Gr5	

HEAT EXCHANGERS 2005

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
PETRESA	A-387 Gr.11 Cl.2	15 T	8,2		1091	0,16	

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
						A-268 Tp.410S	

HEAT EXCHANGERS 2012

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
CFE	SA 516 Gr 70	6,3	6		926	16	35,4 bar

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
						35,4 bar	AISI 316L

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
PRAXAIR IBERIA	A-240-304L, A-213-304L	6600	4,55		676	10	46 barg

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
340							

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
HANNOVER (GB) LTD	A-106-B	1650	3,8		12´´	17,45	85 barg

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
110	Vertical	85 barg	110	R	1	A- 266-2	A-179

INDUSTRIAL MOREYPI
WE ARE STEEL
SINCE 1945

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
HANNOVER (GB) LTD	A-106-B	1900	3,9		12´´	17,45	99 barg

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
110	Vertical	99 barg	110	R	1	A- 266-2	A-179

INDUSTRIAL MOREYPI
WE ARE STEEL
SINCE 1945

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
HANNOVER (GB) LTD	A-106-Gr.B		3,7		289		

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
						A-266-2	A-180

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL-YPF	A-234-WPB/A-106-Gr B	817	4,9		219	8,18	7.7 kg/cm2

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
165	AMU	6 kg/cm2	165	R	1	A- 266-Gr2	A-179

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
JACOBS NEDERLAND B.V	A-333-Gr5/A 516-Gr60	500	3,4		14´´	15	ATM

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
100/-15		14,8 barg	440/-15			A-333-Gr5	

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
PETRESA	A-387 Gr.11 Cl.2	15000	8,2		1091	0,16	

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
						A-268 Tp.410S	

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL-YPF	A-516-70	3110	4		713	14	9,1 kg/cm2

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
210	AIS	11.8kg/cm2	315	R	6	A- 266-Cl2	A-179

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
ECOLUBE	SA 516 Gr 60	2600	3,7		610	10	21 barg

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
350	BES	14 barg	250	C	2	SA 266 Gr 4	A-179

INDUSTRIAL MOREYPI
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SINCE 1945

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE	SA 516 Gr 60	10150	7,5		1150	13	10,5 kg/cm2

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
340							A-179

INDUSTRIAL MOREYPI
WE ARE STEEL
SINCE 1945

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE	SA 516 Gr 60	12750	6,9		1170	13	13 kg/cm2

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
340							A-179

INDUSTRIAL MOREYPI
WE ARE STEEL
SINCE 1945

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE	SA 516 Gr 60	21000	6,9		1100	13	8,7 kg/cm2

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
340							A-179

INDUSTRIAL MOREYPI
WE ARE STEEL
SINCE 1945

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL-DISEPROSA	SA 516 Gr 60	5300	6,9		781	14	5 kg/cm2/FULL VACUUM

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
90	AES	7,5kg/cm2	70	R	4	A-266-Cl1	A-179

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SINCE 1945

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
ABB	SA 516 Gr 60N	12600	7,7		731	31	93,1 barg / FULL VACUUM

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
125/-20	BEM	93,1 barg / FULL VACUUM	125/-20	R	1	CLASS 1, SA-350LF2	SA-213-316L

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
CFE	SA 516 Gr 70	6300	6		926	16	35,4 bar

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
						SA 516 Gr 70	AISI 316L

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA-UHDE							

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL			7,4		1519		

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES

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HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
FOSTER WHEELER							

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES

HEAT EXCHANGERS 2013

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
REPSOL	A-336-F11 Cl2 + OVERLAY TP 309/347	17300	7,4		886	17300	

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
	DEU	156kg/cm2	304	R	2	A-182-F11 Cl2 + OVERLAY	A-789 UNS S31803

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HEAT EXCHANGERS 2015

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
INTECSA- NOVARGI	SA 516 Gr 70	15191	3048		1250	40	9,7

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
120	BEM	7,5	360		1	SA 516 Gr 70	Sa 192 or equiv

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HEAT EXCHANGERS 2020

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
AIR LIQUIDE - NOVARGI	SA 516 Gr 60	26000	14270				85

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
300	BUNDLE - COIL	39,6	250			SA 516 Gr 60	SA-106GR.B

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HEAT EXCHANGERS 2020

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
TECHNIP BRASIL	SA 516 GR 60	11649	8458		2340	10	

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
						SA 516 GR60	A 106 GR. B

HEAT EXCHANGERS 2021

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
PDVSA	SA 387 Cr 11 CL 2	22141,7	4268		1473,2	22	37,97

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
426	BEU	27,42	-18		2	SA-336 K11572Gr. F11 CL.3	SA-213 K11597 Gr. T11

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HEAT EXCHANGERS 2021

1. CLIENT	2. MATERIAL SHELL	3. WEIGHT (kg)	4. LENGTH (mm)	5. HIGH (MM)	6. DIAMETER (mm)	7. THICKNESS (mm)	8. DESIGN PRESSURE SHELL SITE
QATAR PETROLEUM - DF	SA 516 70	31200	9789		2300	54	37,4

9. DESIGN TEMPERATURE SHELL SITE	10. TYPE TEMA	11. DESIGN PRESSURE TUBE SITE	12. DESIGN TEMPERATURE TUBE SITE	13. CATEGORY	14. PASSES	15. TUBESHEET	16. TUBES
343	N/A	56	343			SA 266 CL.2	SA-213-T11 (outer tubes) and SA-192 (inner tubes)

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SKIDS 2018

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
PALL	S 275 JR							