

## REFERENCES LIST 1999 - 2024



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**PRESSURE VESSELS**



**COLUMNS**



**HOPPERS**



**OVERLAY**



**SILOS**



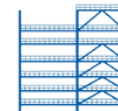
**AIRCOOLERS**



**FILTERS**



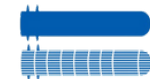
**MINING**



**SECONDARY STEEL**



**DUCT**



**HEAT EXCHANGERS**



**SKIDS**



## COLUMNS

1999

CLIENT	MATERIAL SHELL	WEIGHT (kg)	LENGTH (mm)	HIGH (MM)	DIAMETER (mm)	THICKNESS (mm)	DESIGN PRESSURE SHELL SITE	DESIGN TEMPERATURE SHELL SITE
KAVAERNER PROCES	SA 516 Gr.70	18,1	21,9		914	12	0,83 bar (g)	176,67
KAVAERNER PROCES	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/cm <sup>2</sup>	165
TECHNIP/AIR PRODUCTS	SA 240 TP304L		16,5		1100	5	5 kg/cm <sup>2</sup>	180
INTECSA/INTERQUIS A	SA 516 Gr 60N		58		3700	25	2,3 kk/cm <sup>2</sup>	
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



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 CEPSE	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		



<b>COLUMNS</b>	<b>2009</b>
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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

<b>COLUMNS</b>	<b>2010</b>
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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



<b>COLUMNS</b>	<b>2012</b>
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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					

<b>COLUMNS</b>	<b>2013</b>
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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



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