DOSSIER DE QUALIDADE



Empreitada:

4001008 - "Nuevas Plantas de Poliolefinas, Plataformas Logísticas Y Offsites"

DOCUMENTO Nº:

DATA:

31/01/2025

FOLHA N°: / DE: 386 de 2080

1.4.3 TUBAGEM

ITEM	DESCRIÇÃO DOCUMENTAL	N° CERTIFICADO	DATA								
	TUBOS DE HDPE										
1	TUBAGENS PLÁSTICAS EM POLIETILENO (PE) POLITEJO PARA DRENAGEM	PT07/02125	29/11/2021								
2	TUBO ASTM-80 Ø101.6x9	43277	02/02/2024								

Baia	Verificado	Aprovado	Cliente
Data	Qualidade	Director Obra	Repsol
31/01/2025	In Note	hus galedo	

 $^{{}^{\}bigstar}$ VER CAPÍTULO SOLDADURA - DOSSIER DE FABRICAÇÃO - POLIETILENO

SGS

Certificado de Conformidade

PT07/02125

POLITEJO - Indústria de Plásticos, S.A.

E.N. 3, Km 16 - Casais da Lagoa 2050-038 AVEIRAS DE BAIXO

Âmbito Certificado

Certified Scope

Produto(s): Tubagens plásticas em Polietileno (PE) para abastecimento de água, e para drenagem e esgoto sob pressão.

Product(s): Plastics pipes of Polyethylene (PE) for water supply and for drainage and sewerage under pressure.

Variante(s): descritas em anexo.

Variant(s): described in annex.

Documento(s) normativo(s) / Standard(s) NP EN 12201-1:2012; NP EN 12201-2:2011+A1:2015;

CEN/TS 12201-7:2014

Este certificado é válido desde

This certificate is valid from

29 de novembro de 2021 até 10 de outubro de 2024, sujeito a auditorias de acompanhamento com resultados satisfatórios

29 November 2021 until 10 October 2024, and remains valid subject to satisfactory surveillance audits

Auditoria de Renovação a realizar antes de 10 de agosto de 2024

Re certification audit due before 10 August 2024

Versão 25. Certificado pela SGS desde junho de 2007

Issue 25. Certified with SGS since June 2007

Autorizado por: Authorized by:

Luis Santos

Direção de Certificação Certification Management

Luis Santos

PT/NP EN 12201 / 07/02125

Pac acreditação

> C0001 ISO/IEC 17065 Produtos



SGS ICS – Serviços Internacionais de Certificação, Lda
Polo Tecnológico de Lisboa, Rua Cesina Adães Bermudes, lote 11, nº 1, 1600-604 Lisboa – Portugal
T: +351 217104200; F: +351 217157527

Pag. 1 de 2
Page 1 of 2



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Luís Neves



Certificado de Conformidade

Certificate of Conformity

PT07/02125

ANEXO 1

(ANNEX 1)

Produto(s): Tubagens plásticas em Polietileno (PE) para abastecimento de água, e para drenagem e esgoto sob pressão.

Product(s): Plastics pipes of Polyethylene (PE) for water supply and for drainage and sewerage under pressure.

Variante(s):

Variant(s):



		Para abastecimento For water supply	
Material Material	Pressão Nominal Nominal Pressure (PN)	Razão Dimensional Normalizada / Série Standard Dimension Ratio / Series (SDR / S)	Diâmetro Nominal Nominal Diameter (mm)
PE 80	8	17/8 0805050505050	32, 40, 50, 63, 75, 90, 110 (matéria-prima PE 100
F L 00	10	13,6 / 6,3 4504050505	25, 32, 40, 63, 90, 110 (matéria-prima PE 100)
	5	33 / 16	800, 1000
	6	26 / 12,5	125, 140, 160, 180, 200, 225, 250, 280, 315, 355 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600
	<cos6568 565656565656565656565656565656565<="" 8="" td=""><td>GSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGS</td><td>32, 40, 50, 63, 160, 180, 200, 225, 250, 280, 315 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600</td></cos6568>	GSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGS	32, 40, 50, 63, 160, 180, 200, 225, 250, 280, 315 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600
PE 100	45G5G5G5G5G5G5G5G5G 4005G5G5G5G5G5G5G5G5G5G5G5G5G5G5G5G5G5G5	05050505050505050505050505050505050505	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500 560, 630, 710, 800, 900, 1000, 1200
	12,5	13,6 / 6,3	125, 140, 160, 200, 250, 280, 315, 355, 400, 450 500, 560
	16	GSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGS	25, 32, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630 800
	20	9/4-05650505050505	110, 125, 160, 180, 200
	25	7,4 / 3,2	125, 140, 160, 200

		drenagem e saneamento For drainage and sewerage unde	
Material Material	Classe de pressão Nominal pressure (PN)	Razão Dimensional normalizada / Série Standard dimension ratio / Series (SDR / S)	Diâmetro Nominal Nominal Diameters (mm)
PE 80	8	17/8 08656568656	200 (matéria-prima PE 100)
FL 00	6	26 / 12,5	110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600
	8	21 / 10	630, 710, 800, 900, 1000, 1200, 1400, 1600
PE 100	10	17/8	32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200
	12,5	13,6 / 6,3	125, 140, 160, 200, 250, 315, 400
	16	11/5	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 560, 630

C0001 ISO/IEC 17065 **Produtos**

Pág. 2 de 2 Page 2 of 2

DOSSIER DE QUALIDADE



Empreitada:

4001008 - "Nuevas Plantas de Poliolefinas, Plataformas Logísticas Y Offsites"

DOCUMENTO Nº:

DATA:

31/01/2025

3*89 de 2080*

FOLHA N°:/ DE:

ITEM	DESCRIÇÃO DOCUMENTAL	N° CERTIFICADO	DATA							
	TUBOS DE AÇO CARBONO									
1	TUBOS ASTM-A-106 B SMLS, ASME B36,10 Ø6", SCH40,L7805	MTC-4-19-035	17/12/2019							
2	TUBOS ASTM-A-106 B SMLS, ASME B36,10 Ø6", SCH40,L7805	MTC-4-19-039	17/12/2019							
3										

20/12/2023			
Data	Qualidade	Director Obra	Repsol
Daid	Verificado	Aprovado	Cliente

 $^{{}^{\}bigstar}$ VER CAPÍTULO SOLDADURA - DOSSIER DE FABRICAÇÃO - AÇO CARBONO



No. Certicate Nº certificado:

MTC-4-19-039

Date / Fecha: Pages/Páginas: 17/12/2019

	MION!/ r	terminioù a premir			TOP MAN TO STEE A STEEL STEEL		
Manufacturer: Fobricante	BAIKA STS		Steel grade: Grado de acero:	API 5L Gr. BN PSL2			
Cliente: Client:	CURADO POLIDUCTO REPSOL			CUÑADO Packing list nº:		No. of the contract of the con	0275-18-06
Project: Proyecto:				Pipe quantity: Número de tuberios:	50		
Item: Posición:	6	Size (mm): Dimensiones (mm):	168 x 7,11	Total length (m): Lentigud total (m):	924,58		

APPLIED PRODUCTS We constitutely	0000	The state of the s	ARCHES TO THE PARTY OF THE PART		
Abrasive grit: Grancila:	_LG18-W ABRASIVES _LG25 W ABRASIVES	Product standard:	ED-N-03.00-02a		
FBE: Epaxy polvo:	ARSONSISI PE 507191	Morma de producto Coating class: Clase de revestimiento:	B3		
Adhesive: Adhesivo:	MPB COESIVE LB.92.8	Coating:	High density polyethylene		
High density polyethylene:	Page Control Control	PENEVINO DESCRIP	Polietileno de alta densidad (HDPE)		
Palietilena de olta densidad (HDPE):	MPB LUXENE HOPE2050	Minimum thickness (mm): Espesor mínimo (mm):	5,4		

BAIKA Steel Tubular Systems, S.L., hereby cerify that the pipes herein described satisfy the manufacturing, testing, and inspection requirements stated in the purchase order BAIKA Steel Tubular Systems S.L., certifica que las tuberias referenciadas satisfacen los requisitas de fabricación, ensayos e inspección de la orden de pedido

This certificate cannot be reproduced partially without the written consent of BAIKA Steel Tubular Systems S.L. Este certificado no puede reproducirse parcalalmente sin el consentimiento escrito de BAIKA Steel Tubular Systems, S.L.

Signed for and on behalf of the manufacturer by: Firmado por y en nombre del fabricante:



Balka Stool Tubular Systems, S.L. + IRNSS9111





No. Certicate

MTC-4-19-039

Nº certificado: Date / Fecha:

17/12/2019

Pages/Páginas:

4

	Pipe ID	ΔT dew point (°C)	Salt content (mg/m2)	Roughness (µm)	Dust		Grit batch	Water contaminat (µS/cm)
	Nº tuberia	ΔT punto de rocio (#C)	Contenido en sal (mg/cm2)	Rugosidad (µm)	Polvo	1	Lote granalia	Contominación Agu (uS/cm)
	47-398	8,4		72,6	2/2	-	LG 25 - 118249	
	47-537			78,9	2/2		LG 18 - 219155	0,13
	47-1486	-	4	74,9	2/2	7	F0 10 - 513132	
	47-1535			68,5	2/2	_	-	
	47-550			70,1	2/2	-		-
	47-1537	8,1	0,2			-1	-	
		+	-			-	-	
						Abrasive grit	-	
							- :	
Surface							-	,
	-						-	-
Superficie							- :	
	-	*			-	- Grandina		
	-					-	-	-
						-1		-
						-	-	
					-	-	-	-
					-	-	-	
						-	-	
		+				⊣ .		
			+1			-	-	-
						→	-	
	Acc. criteria Criterio ocept.	> 38 aC	≤ 2 µg/cm2	50-100 µm	≤ 2	1	Acc. criteria Criterio acept.	≤ 150 µS/cm
	Frequency Frecuencia	2 / shift 2 / turno	1/shift 1/turno	1/hou 1/hou		1	Frequency Frecuencia	1/shift 1/turno



Balka Steel Tubular Systems, S.L. • 601559111





No. Certicate

MTC-4-19-039

Nº certificado:

17/12/2019

Date / Fecha: Pages/Páginas:

4

	Pipe ID	FBE / adhesive batch	Thickness FBE (µm)	(µm)	Degree of cure	T 2-11-11-11
	Nº tuberla	Lates de FBE / adhesivo	Espesor FBE (µm)	Espesor adhesivo	Grado de curado	Cathodic Disobondment (*)
	1363	041907/2019-A1-002216	163,2	390	2,94	Desprendimiento catódico (*)
	1351	041907/2019-A1-002216	1907/2019-A1-002216 -		1,88	
	47-427	-/-		-	-/-	2,59
		-/-	-		-/-	2,33
		-/-		-	-/-	
		-/-			-/-	
		-/-			-/-	- : -
		-/-	4.		-/-	- :
		-/-			-/-	-
		-/-			-/-	
FOF and		-/-		-	-7-	
FBE and		-/-			-/-	
adhesive		-/-	-		-7-	
poxy polvo y		-/-	-		-7-	
adhesivo		-/-	7		-/-	-
aanesivo		-/-	*		-/-	
		-/-			./.	
		-/-			-/-	
		-/-			-/-	-
		-/-	-		-/-	-
		-/-			-/-	
		-/-			-/-	-
		-/-			-/-	
		-/-	*		-/-	
	Acc. criteria Criterio acept.		125-500 μm	≥ 150 µm	ΔTg ± 3°C	≤ 4 mm.
	Frequency Frecuencia		1/sh 1/tur		2/shift 2/tumo	1 / batch FBE 1 / lote FBE

(*) Test at 65°C during 24 hours at -3,5 V Ensayo a 65°C durante 24 horas a -3,5 V



TUBULAR SYSTEMS

Balka Steel Tubular Systems, S.L. - 801539111





No. Certicate

MTC-4-19-039

Nº certificado:

17/12/2019

Date / Fecha: Pages/Páginas:

			Peel strees	th (N/mm)		-	Classical and		SECRETARIA CONTRACTOR
	Pipe ID	Thickness (mm)	(*	*1	HDPE batch	MFR	Elongation at break (%)	Impact resist. (I/mm)	indentation resis. (mm)
	Nº tubería	Espesor (mm)	Resitencia (N/r	SHOPP STATE OF THE	Lote de HDPE	Índice de fluidez	Elongación a la rotura (%)	Resistencia al Impacto (I/mm)	Resistencia a indentación
	47-1351	5,16	32,1	21,8	2019-L2-000295		101010 Tol	WHOMESON DEVICITIES	HINESHINESHI.
	47-427	6,22	37,7	21,8					
	47-427							OX	
	STOCK EMPUJE					2,24	>444,45		0,04 2390 / 0,1 8090
							-		
		-							
	Acc. criteria Criterio acept.	> mm.	> 18 N/mm 23° C	>5 N/mm 809 C	Acc. criteria Criterio acept.	ΔMFR ± 20%	≥ 400%	≥7 J/mm - 23ºC	≤ 0,2 mm- 23% ≤ 0,4 mm- 80%
Polyethylene	Frequency Frecuencia	Every ten pipes Cada diez tuberias	1/shift 1/turno	1/shift 1/turno	Frequency Frecuencia		1 / batch 1 //ote		
HDPE (*)	4.0					Flexibilidad		Hot water immersion (mm)	
		计,并没有一个最高的			Lote de HDPE	Flexi	bility	Inmersión en agua caliente (mm.	
	THE PERSON				2019-L2-000295	1	OK .	No disbonding	No disbonding
	VIII SOURCE		E WARRE						
							•		
				0.44(3)		8			
	TIME DIGG	THE STATE OF	200 NES		*				*
		300000000000000000000000000000000000000							
			27.57		Acc. crituria Criterio ocept.	No cracks whe	n bending at OPC	Average disbonding s 2mm	Maximum disbonds ≤ 3 mm
					Frequency			batch	

.(*) Continuity test with satisfactory results in 100% of the coating surface. Residual magnetism < 30 G. Flexibility test Ensayo de continuidad a 25 kV con resultado satisfactorio en el 100% de la superficie revestido. Magnetismo residual < 30 G (**) Test performed at 23°C and 80°C Ensayo realizado a 23°C y 80°C

QA /QC Man

Manufacture: Association Tubble From STEFAN CHE MARE STR. I, BOMAN, NEAMT ROM.	MILL TEST CERTIFICATE					Fegs 1/8 \$ 1,6466/3 \$21,81,281,0		ArcelorfAlffal		
CALLE CAMENO I SPAIN	Standard:		APS SL ed 45- 2019		Mi-2015; Paper acc with	Total weight: 26, 137 toss 0 fbs. A fileped space and A	Total Let 924,92 3-034,51 MR Technics	rantera Grata		
Buyer's pro NO. (PC085340) reference Combinate (P008060) begin) (201_PE46-R	Diameter	168.30 x 7.11 mm 6623 X 9.223 mob Bez 196	Schoole: 4		-		12 00 M		937 (

				С	Min	B4	3	P	Cr	M	9	7	Me	*	Nb	31	B	N
	. Dallatin	Product	Mila	0.24	1.20	0.40	0.015	0.025	0.30	0.30	0.54		0.15		٠	0.040	0.0010	
. Host	No.	NA.	Min	-		-		·		-	· ·	-		٠	4	_ <u>:</u>		•
63497		F7-111 1111		0.15	0.21	0.24	B. 06 4	0.467	0.1.0	201	0.15	0.034	0.02	0.003		0 000	0.0004	0.0946
63820		Fice ma		0.15	0.84	6.22	0.096	0.404	9.11	0.07	D. 16	0.025	0.42	0.011	0.442	0.004	0.0003	0.0070
63837		Heat un		0.14	0.86	9,24	D.003	0.006	6.15	0.12	0.17	4,034	ŧΦ	0.016	0,004	0.001	0,0002	D.D 046
63845		Private sale		0.15	0.83	0.23	0.004	0.640	9.91	0.07	0.20	0.034	0.02	0.00	ù ¢or	0.001	0.6002	0 0060
63847		Flore and	_	0.14	4.50	0.24	D.004	0.001	0.13	0.44	0.14	0.012	0.02	0,009	0.00\$	0.001	0.0000	0.0076
63944		that a	_	0.15	4.86	0.23	0.002	1000	8.10	0.97	0.16	0.006	60	0.012	D. 664.1	0.001	0,0002	0.0076
63477	15-1918	Product a	y pale	416	0.43	0.25	6.002	0.007	*11	0.09	0 7	0.030	6.02	9,447	D.#02	0.001	6.0002	0.0066
43491	13-1914	Product		B15	0.83	925	0,002	6.007	BILL	0.07	LIT	0.029	0.02	0.017	0.002	άάοι	0.0002	0.0068
-	16-2014	Produce		614	0.84	0.23	0.002	6.007	\$.09	9.67	0.05	0.037	0.02	0.010	6/01	0.001	0.0001	0.0874
63430	18-2014			B.15	0.83	0.23	0.002	0.007	1.09	0.07	9.15	0.006	0.02	0.000	0.001	0.003	0.2001	0.0000
63420		Product m		0.14	0.86	0.24	0.992	0.009	9.17	0.11	4.14	0.034	0.62	0.005	0.001	0.601	0.0001	0.0063
43437	19-200d	Product or		_		0.24	0.002	0.009	9,17	#.11	0.14	0.034	0.02	0.015	0.001	£.001	0,0001	0.0061
63437	14-2004	Predom n		0.15	0.85			_	8.00	0.07	8.17	0.00	0.82	D 109	0.001	0.001	0.0001	0.0064
63HS	18-2004	Product		4.15	Q:84	023	0403	0.010	_	0.07			0.02	0.009	0,001	0.001	0.0001	0.0081
63945	18-3004	Designation or	_	0.15	6.64	#22	0,00%	#.QID	0.00		A1P	4.44	0.02	8.089	0.001	0,001	0.0002	8,0071
63147	19-20-00	Peodes a		0.13	9.85	<u> </u>	0.003	0.010	0.11	D.04	0.19	4,034	_	4.000	100.0	0,001	0.0001	0.0074
63347	\$-290¢	Perchan a	wysie	0.15	6.84	0.25	0.003	118.0	ali_	0.04	6.20	1.035	0.02			9.901	0.4001	0.0077
63348	19-2914	Probet a		0.15	D.RS	623	0.002	0.048	0.04	9.04	0.16	1.036	0,02	0.009	6.801			
63448	12.2014	Peodeol 6		@13	0.83	0.23	0.002	0 007	0.04	0.93	0.17	0.035	0.02	900	6001	4.601	0.0001	0.0016

We state an our sale responsibility that the delivered products set in conformity with the order requirements.

C. ONITHUS ORO. TOX 29-4. 2018

- A



Manufacturers Applications Tubular Pro- STEPAN CEL MARE STI I, ROMAN, NEAMT ROM	L, BL 15, SC. A, PARTER,			EST CER	E	Page 2/L B 1/004 20.19.20	18	Arcelor	_	
ENTE CANDOSA. CALLE CANDOS DEL OLIVAR, 2, MADR. SPARI				AMLESS STEEL LI	M-2015; Pigus acc wit	Total weight: 20,137 sens 2 the tillapsoi space and A	3 034.31	Longth: Proces Bu 4.92 percen 4.31 feets 60 haired Offer Report 25.89.		
Teleport PO NO: PO00524 Contract S0005245 Inco	Dimensions:	(48,38 x 7.11 erm 6.625 X 9,280 lack Bar 196	Schedule: 4				1 2# @	\$6.00 - 39 FM - PSIL2		

			MB I V	NB - TI+Y	CE_UW
	Builtonia	Prestant Man	\$.060		0,49
He	Mo.	Req. Xia			,
63497		Husterstyre	0.007	0.010	(10
63\$20		Heat analysis	0.013	0,014	6.5)
63437	-	Most assigne	9.017	0.038	0.34
£345		Must malyale	0.011	0.012	0.21
63947	_	flat and yels	0.070	0.010	0.23
62946		March send years	0,01)	0,014	<u> </u>
63497	18-1914	Product analysis	0.009	0.010	6.34
63-67	16-1918	Product mady sit.	9.009	0.010	0.34
63130	18-2914	Product analysis	(a)) t	0 012	0.37
63120	10-2014	Product analysis	4,019	0.01)	177
63137	14-3908	Product analysis	4016	9.017	U34
63837	10-2004	Product analytic	4016	9.017	0.35
63845	18-2909	Product analysis	4 /216	#.Q()	+.33
Q145	15-2506	Product soulyses	9410	0.011	0.53
63147	12-2006	Product analysis	0.010	0.011	0.34
63847	18-2404	Produce analysis	0.010	¢,àii	0.34
63648	18-2014	Paratura analysis	1.010	0.011	4.33
Ø##	18-2014	Product analysis	0.010	0.011	<u> </u>

We state on our sole responsibility than the delivered products are in conformity with the order requirements.

C.amirinas Otto. 1922 29.11.9013 Office Company

Manufacture: Acceptation Tubelly Produce Rouse S.A. STEFAN CKL MARESTR, BL 15, SC. A. PART B. ROMAN, NEANT ROMANIA	MILL TEST CERTIFICATE	Page 3/8 p (2804) 24.11.2018	Arcelor/Mittal
BOYER CUMADO & A. CALLÉ CAMINO DEL OLIVAR. 2. MAD SPADI	Eventual:	0 The 3 034.51	foots 80 15
Buyer's PO NO. :PC0152459 reference Connect 50003863 ham heart Chest	API 51, +2445-2042/ API 51, mt.46, 2012-PSLT, ASPME \$344,4844-2015, Piper act 46 Disconsistant 1487-30 g 7,11 pper 6,525 X 0.250 inch Hydro Text: PST NGPs Time(sec) 155 10 4 10	Lengt 11,00 - 12,00 m	34.09 - 39.37 Aut

				Mb+V	Ma + Tr + V	CE_IIW
	El (Blacks	Product	Mee.	8,040		0.AS
He		+	14 6 6		-	

CEpon - C+Si/30+Mo/20+Cu/20+Ni/60+Cr/20+N4o/L5+V/30+5B

CE_S = C+Ma4

Che - C+M-/6+(C+-Mo+V)/3+(Ni+Cu)/15

Tennile Test

	A	Ľa	0 40	Whathy	Maroelar	Thick	ф	Şer	trad.	Mechanical test	YŞ	YS	UTS	CTS	Æ	YEAUTS
Hout	Orientation	4080	Inch	FE-Th	a ch		inch	400	ioch	Ballioten No	MPa	(PSI:1000)	MPs	(PSI:1000)	. 94	muo: 0.90
63497	Longitudinal First	50.B	2	40.00	1.575	3.10	0319	334.0	12,756	16-4361	36£.00	53,4	512.00	24,3	40.60	0.72
63320	Longitudinal Flat	50.8	7	40.00	1.575	7.80	0307	312.0	12.283	18-4530	354.00	51.3	417,00	T0.4	39.90	4.73
63837	Longitudian Plat	30.8		40.00	1.515	7.60	0.259	304.0	11.969	18-4514	364.00	32.8	507.00	73.5	39.60	0.72
63945	Longitudinal Plat	50.8	- 5 -	40.00	1.575		0.327		13.071		391.00	\$6.7	\$36.00	77.7	38.30	0.73
	Longinatinal Pler	30.8	 -	40.00	1.575		0.339		13.543	_	373.00	54.1	113.00	74.4	40.30	0.73
63345			+	40.00	1.575	,	0.323		12.913		373.00	54.1	514.00	74.3	38.40	0.73
63\$45	Loogradinal Flar	30.3	_								793.00	57.0	130.00	79.8	40.49	0.71
63847	Longitudinal Plat	50.8		40.00	575	1			12.126					74.3	39.60	0.72
6384T	Longitudian Plat	50.8	2	40.00	1375				13.071		370.00	50.7	312.00		41.50	0.71
63847	Louginedical Flax	50.4	2	40.00	1.575	6.70	0.343	349.#	13.701		351.00	50.9	493.00	71.5		
63846	Longitudinal Flat	50,8	2	40 00	1.575	7.90	0.311	316.0	12,441	[#-4330	407.00	59.0	364.00	\$1.\$	38.50	0.72

We state on our sale responsibility that the delivered products are in conformity with the under requirements.

C.OMYTHUS OBO. TSR BY IR SHE PL



STEFAI	distal Tutrahar Prod	, BL. 15, SC. A, PARTER,			EST CER	RTIFICAT	E	Page 4/8 B 16046 28.16.20	J	Arce	Mrok	
Bayer:	CUNADOSA. CALLE CAMINO SPAIN	DBL OLIVAR ,2, MADRID,	Spodeci:				Ohd. 201 5; Pipes not +8	Total weight: 26,137 type U lbu	1034,51	un stadt Daysty	*	13 13 .09 2016
Bayar's esfection Can level	PO NO. /PC005247 80003068 Beap		Dimensions:	188.30 x 7.11 mm 6.625 X 8.280 lack Bur 196	Schodule:				12.00 m		9 - 39.3	

Impact Test

Herel	impers Toss Bulloda Mo.	Orientalion	Siec (abb)	3.0	Jun IV (min I)	K.	EV values (J)		Eng.Avr. (min. 3)	Ave. Breature Contrary (J)	EÇÜ 4	ala:Jea	PT:40	47	Des Art Tria W		Lateral Exposaire min. ster			
63497	18-6993	Longinited	10=3=55	+20	14.0	£₩1	94	P5		97	. 1	- ;	-	8	98	90	0.35	0,80	0.01	
63820	18-7232	Longitudinal	10m5×55	+20	14.0	94	91	#4	•	97			·	R	*	90	9.31	0.51	0.78	
63537	18-7215	[corpodes]	10 131 55	+20	14.0	Litto	100	103	-	106	٠	,	+	19	90	90	1.39	4.91	0.47	
63845	(8-7213	Lengitodinal	10x5x55	+25	14.0	9)	- 91	77	-	93	. +	•		Ŗ	94	#0	4.76	4.76	0,81	
63845	18-7216	Longowinsi	1095455	+20	14,0	52	94	#2	,	92	-	•	•	R	90	90	4.74	9.76	0,76	
5,7\$45	18-7217	[personal	149031633	+30	14.0	w	¥ź	74	-	95	: .	,	,	2	90	90	6.52	9.76	0.79	
63847	12-7215	[ang the fields]	10x5x35	+20	4.0	95	94	13		94	+			. 50	90	90	0.10	0.79	0.79	
63847	18-7216	Longinustral	10x3x35	+20	14.0	93	99	190		. 95	-	-	-	90	90	. #4	6.17	0.77	0.83	
63847	18-7232	[anglestine]	10m5x35	+20	14,0	ια	\$ 1	**		97		-	-	8	: 19	98	4.85	4.75	0.27	
63848	18-7232	Loughtefied	10m5m55	+20	14.0	B3	8	##	· -	Ħ		-	:	ģ	90	**	0.68	6.67	0.77	

Hardness Test

	Flandage 7mm		ND 110	L		HV 10 max.»			HRC mas
Heat	Bolistic No.	HID amor. 215	MV 10 mmc	OD	Midwell	Ð	A Bal	Pad B	l <u>.</u>
634797	IZ-354£	162;160;164;865		-	٠	, "	٠		*
63497	12-3641	162;161:163;£64	-	·		-			4
63420	10-3615	158;160;159;157			•	-		-	4.
63820	(6-3815	158;157:160:139			-	'		-	
67837	18-3192	161;140:139;162	,		-		. /		-4-
63437	18.3792	160;158;159;161	<u> </u>	-				* • • •	

We state on our sole corporability that the delivered products are in conformity with the order requirements.

CHAPPINES

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Formular 12A, rev.9

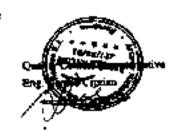
STEPAN	ROOT: CHAI THAMA Products Roman S.A. I CEU MARE STR, BU 15, SC. A. PARTEIR. IN, NEANCT ROMANIA		MILL T	EST CER	RTIFICATI	E	Page 34 B 16000 28.18.24	10	ArcelorA	
	CUNADO SA. CALLE CAMINO DEL OLIVAR (2, MADRIE), SPAIN		SEA	MILESS STEAL L		MA-2415; Pipus acc W	Total meight 28.137 feas 0 fts th Rapesh spect and A	Total Lea 924.92 3.034.5) MR Technica		Bundles (5 1.07:\$01€
Buyer's reference Combrace	PO NO. (PC0052419 \$8003065 hos	Dinessions:	164,50 x 7,1 f mm 6,425 X 6,280 ioch Beer 196	Schedule: TSI	40 MPa 19.6		Length: 11.00 -	1200 to	36.49 - 39.3 M - PSL2	17 Rev.

Hardoess Test

	Hariston Total	·				€V10 max			HRC make
Hent	Bulletia No.	MB ann.215	HIV 10 man	ÓĐ	Midwall	ID	End A	Rod D	
62845	12-3791	163;162;164:161	·		T 1				
63\$45	48-3791	P67516151605161	· .		-		<u> </u>		*
63145	18-3992	662; 161; 163;164	•		<u> </u>	<u> </u>	·		<u> </u>
63M5	18-3792	963;161;162;161	T ·]	-	,	<u></u>		-	*
63845	18-3793	863;164 ₍ 165);162		· <u> </u>	-	-	· ·		*
63M5	10-3793	464;162;163;161		<u>-</u>	<u> </u>	<u></u>	· ·	·	
аµ7	18-3791	951;139;160;163	_ •	٠ .	· ·	٠	<u> </u>		*
63847	18-3791	199;158:160;16)	,		-	<u> </u>	· ·	<u> </u>	-
63847	(\$-3792	158;159,161;160		_ <u> </u>		<u>-</u>	· · · -	٠	-
63847	16-3792	160;159;154:161	,	_	•		<u>-</u>		۷.
63847	18-3315	158;159;161;160	+				<u> </u>	<u> </u>	4,
63447	16-3415	159;150;157;160	- <u> </u>	-		-	<u> </u>	<u> </u>	<u>-c</u>
63844	18-3843	163;164;162;191		,		-	<u> </u>		
63 3-4	19-3835	162;163;161;660		-		-	·	<u> </u>	<u> </u>

We state on our sale responsibility that the delivered products are to conformity with the writer requirements.

C. CHITINUS DEC. TEK EV. U.ZVIS R

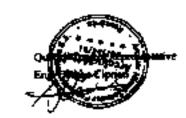


											-		_	=		
STEFAN	teret: Stal Tubeler Products Roman S.A. N CEL MARE STR. BL 15, SC, A. FARTER, NN, NEAMT ROMANIA		MILL TEST CERTIFICATE								74gs 60 n 14604/1 28,11,2010			Arcelor/Althol		
Bayer	CUNADO S.A. CALLE CAMDIO DEL (NIVAR 2, MADRE).	\$ AMILESS STEEL LINE PPES								1			-		Bundles 15	
	SPARY	Stendard: API 51, ad.45-2012/API 51, ad.46-2016-PSI.2; ASME 834-1014-2013; Pipes sac							M.2015; Pipes suc wi	th Repred o	O Nos.			ispeol 25	.99.2018	
	PONO: PC0012419	Dincer		168.30 × 7.10 mm 6.625 X 0.200 mm		Schodule:	40		<u></u>	Leagtir:		12.00 ps	364	9 - 99.3	7 God	
		Hydro T	_	Se 196	+	721	M P ≤ 19.6		Time(rec)	Suppl Con			BN - PS	£2 		

Heat

Hist	Pieces	Length (m)	Weight (kg)
63497	1	-	
63820	10		-
63837			
63845			·
63847	7	<u> </u>	-
63844	ł6		

C. CHITIMUS OB. TOK 29.9.2018 R



We state on our tole responsibility that the delivered products are in conformity with the order requirements.

Manufacture: Accoloration Tubular Products Rouses S.A. STEFAN CEL MARE STR. BL 15, SC. A. PARTER, I, ROMAN, NEAMT POMANIA	MILL TEST CERTIFICATE	Prepr 7/8 In [6006/] 28-11-1008F	ArcelorMittal	
CALLE CAMINO DEL CLIVAR 2, MADRID, SPAIN	SEANGEST STEEL LINE PIPES Pleadard: API SL plas-2012/API SL ed 45-2013-PSL (t ASMI) BOL (0)4-2015; Pipes est wi	Tempi weight: Total Lec 24.137 total 924.92 0 Re 3 (04.51 th Report speed and AME Technical	(ncen. pa 15	
Charlesel 500030M	Dimensional 64.30 x 7.11 mm Schedule: 40	Smel Gode:	36.09 · 39.37 feet IN - PSL 2	

Remarks PIPES IN COMPLIANCE WITH PED: 2014-68-EU/15.05.2014, ANNEX 1, SECTION 4.3, & 7.5

Manufacturing process - ket rolling.

Hot finished, steel is fully killed and produced by electric furnace, source G000108.

Visual inspection and dimensional check without objection.

Heat treatment; normalizing at temperature 910 - 940°C, time acaking 4 min.

NDT full body:

100% ultrasonic testing in accordance with ASTM E213 : Le +Li (t2.5 % from W.T) - satisfactory.

NDT for the pipe ends:

ultrasonic testing: Le+Li (12.5 % from W.T.) - satisfactory.

detection of laminar imperfection on the pape ends, surface coverage - satisfactory.

beyet at each pipe and have been inspected for defects by wet magnetical particle, without stratification - satisfactory.

ultrasonic inspection to verify that the 50 mm wide zone at each pipe and is free of such laminar imperfection.

Hydrostatic test hold for 10 sec. no leakage noticed.

Hydroristic (est hold for 20 sec. no leskage noticed, (for a percentage of 10% of pipes) :

seria): 2.18-47-1362; 2-18-47-1366; 2-18-47-1506; 2-18-47-1517; 2-18-47-1544; heat: 63820

serial: 2-18-47-1490; heat: 63837

secial: 2-18-47-431; 2-18-47-494; best: 63845

NDT After hydroristic test.(max.5 pcs)

serial: 2-18-47-413; 2-18-47-448; 2-18-47-496; beac: 63845

serial:2-18-47-539; 2-18-47-540 heat: 63848

NDT full body:

100% altrasonic testing in accordance with ASTM E213: Le +Li (12.5 % from W.T) - satisfactory.

er. Chirjinus Ottor, resk 24 d. 2018 R Ju

We give on our sole papposphility that the delivered products are in conformity with the order regularments.

Manuforterer Ameliotogical Tabular Products Roman S.A. STEPAN CPL MARE STR, BL 15, SC. A. PARTE S, ROMAN, NBAMT ROMANIA	MILL TEST CERTIFICATE seconding to EN 102043.4/2004	Frage 8/8 B 16006/1 38.11.2018	ArcelorMittal		
PRYME: CUNADO S.A. CALLE CAMIDIO DEL OLIVAR 2, MADR BYARN	SCAMLESS STEEL LINE PERS. SCAMBLESS STEEL LINE PERS. SCAMBLESS STEEL LINE PERS. API SE AG 45-2012 API SE AG 46-2015 PER 2; ASSAS 934-10M 2015; Pipe act with	Total weight: Total Los 26.)37 ross 924.92 6 lbs 3 834.51	ninters at 1,5		
Beyer's PO NO. SPC0052419	Dispersions: 168,30 x 7.11 mm Schwidele: 40 6.625 X 0.280 lock	Lamptic: 17,80 - 12-00 m	3649 - 19 37 feet N - PSL2		

NDT for the pipe ends:

witnesonic testing : Let-Li (12.5 % from W.T.) - estisfactory.

detection of laminar imperfection on the pipe ends, surface coverage - entirfactory.

bovel at each pipe and have been inspected for diefacts by wet magnetical particle, without stratification - satisfactory.

ultrasonic inspection to verify that the 50 mm wide zone at each pipe and in free of such laminar imperfection.

Magaction residual check : four tendings were taken approximately 90° sport around the circumference of each end of the pipe. The average of the four readings is ≤ 25 Cm, and no one reading is exceed 30 Cis.

The products was manufactured, sampled, sexted, marked and inspected in accordance with the Standards, the supplementary requirements, and any other requirements designated in the purchase order, and has been found to meet such requirements

e continue one. TSK 29.11. 2012 2





No. Certicate

MTC-4-19-035

Nº certificado: Date / Fecha:

17/12/2019

Pages/Páginas:

Manufacturer: Fabricante		BAIKA STS		Steel grade:	ARIEL C. DU PELO		
	_	TOSO SAME VE		Grado de acero:	API 5L Gr. BN PSL2		
Cliente: Client:		CUÑADO		Packing list nº; Nº de listado de tubería;	0275-18-01		
Project: Proyecto:		POLIDUCTO REPSOI		Pipe quantity: Número de tuberías:	224		
Item: Posición:	m: Size (m		168 x 7,11	Total length (m): Lontigud total (m):	2644,94		

Abrasive grit: Granalla:	_LG18-W ABRASIVES LG25 W ABRASIVES	Product standard: Normo de producto	ED-N-03.00-02a		
FBE: Epoxy polvo:	ARSONSISI PE 507191	Coating class: Clase de revestimiento:	B3		
Adhesive: Adhesivo:	MPB COESIVE L8.92.B	Coating: Revestimiento:	High density polyethylene		
High density polyethylene: Polietileno de alta densidad (HDPE):	MPB LUXENE HDPE2050	Minimum thickness (mm): Espesor mínimo (mm):	Polietileno de alta densidad (HDI		

BAIKA Steel Tubular Systems, S.L., hereby cerify that the pipes herein described satisfy the manufacturing, testing, and inspection requirements stated in the purchase order

BAIKA Steel Tubular Systems S.L., certifica que las tuberías referenciados satisfacen los requisitos de fabricación, ensayos e inspección de la orden de pedido

This certificate cannot be reproduced partially without the written consent of BAIKA Steel Tubular Systems S.L. Este certificado no puede reproducirse parcalalmente sin el consentimiento escrito de BAIKA Steel Tubular Systems, S.L.

Signed for and on behalf of the manufacturer by:

Firmado por y en nombre del fabricante:



Buturan Call Spagness . Boissoit



No. Certicate

MTC-4-19-035

Nº certificado:

17/12/2019

Date / Fecha: Pages / Páginos:

4

	Pipe ID	ΔT dew point (°C)	Salt content (mg/m2)	Roughness (µm)	Dust		Grit batch	Water contamina (µS/cm)
	Nº tuberio	∆T punto de racia (°C)	Contenido en sal (mg/cm2)	Rugosidad (µm)	Polvo		Lote granalla	Contaminación Agu
	1496	4,3	0,3	75,5	2/2	-	LG 25 - 118249	P. C. C. C. C. C.
	1406	4		79,3	2/2	-	16 19 310155	0,14
	44-1633			66,75	2/2	-	LG 18 - 219155	0,13
	47-280			76,68	2/2	-	-	
	47-315	5,8	-	70,39	2/2	-		
	47-1504	5,8 7,3		72,1	2/2	-		
	47-645			70,7	2/1			
	47-479			82,1		-		
	47-1498				2/1	4		
authorized and the	47-358	8,4		78,7	2/2	4		
Surface	47-500			77,8	2/1	Abrasive grit Granalla		
Superficie	47-340		-	73,54	2/2			
	497		0,3	70,8	2/2			
	- 101	1	0,3			2		
			- :					
		1						
		1						
	-		-					
		1						
	Acc. criteria	-						
	Criterio acept.	>38 8C	≤ 2 µg/cm2	50-100 µm	s 2		Acc. criteria Criterio ocept.	≤ 150 µ5/cm
	Frequency Frecuencia	E. C.		1/hou 1/hore			Frequency Frecuencia	1/shift





No. Certicate

MTC-4-19-035

Nº certificado:

Date / Fecha: Pages/Páginas:

17/12/2019

	Pipe ID	FRE / adhesive batch	Thickness FBE (µm)		THE RESERVE OF THE PARTY OF THE	The second second
	N# tuberia	Lates de FBE / adhesivo		(jum)	Degree of cure	Cathodic Disobondment (*)
	47-332		Espesor FBE (µm)	Espesar adhesivo	Grado de curado	Desprendimiento catódico (*
	1455	041907/2019-A2-003362	135,2	182,7	1,82	
	435	D41907/2019-A2-003362		7	2,95	
	453	D41907/2019-A2-003362	131	154,7	0,59	
	47-343	041907/2019-A2-008362		-	2,07	
	47-343	D41907/2019-A2-003362	*		-/-	1,95
		./-			-/-	
		-/-			-/-	
		-/-	+		-/-	
		-/-		+	-/-	
		-/-	*		-/-	-
FBE and		-/-			-/-	-
		-/-			-/-	
adhesive		-/-			-7-	-
Epoxy polvo y		-/-			-/-	
adhesivo		./.			-/-	
		-/-			-/-	
		-/-			-/-	-
		-/-			-/-	
		-/-			-/-	-
		-/-			-/-	
		-/-	4	-	-/-	-
		-/-			-/-	
		-/-			-/-	-
		-/-			-7-	
	Acc. criteria Criterio acept.		125-500 µm	≥ 150 µm	ΔTg ± 39C	≤ 4 mm.
	Frequency Frequencia		1/shl 1/tun	005	2/shift 2/turno	1/batch FBE

(*) Test at 65°C during 24 hours at -3,5 V Ensaye a 65°C durante 24 hores a -3,5 V



TUBULAR SYSTEMS

Beika Steel Tubular Systems, S.L. - 801559111



No. Certicate

MTC-4-19-035

Nº certificado: Date / Fecha:

17/12/2019

Pages/Póginas:

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	Resultados ar e	SARON	A street and to	and the same			20 BKO	COLUMN TO SERVICE STREET	STATE OF THE PARTY.			
	Pipe ID	Thickness (mm)	The state of the s	th (N/mm)	HDPE batch	MFR	Elongation at	Impact resist.	Indentation			
	Nº tuberia	Espesor (mm)	Resitencia (N/I	a pelado	Lote de HDPE	Índice de fluidez	Elongación a la	(J/mm) Resistencia al	resis. (mm) Resistencia a			
	332	3,63	33,9	15,1	2019-L2-000295		roturo (%)	impacto (I/mm)	Indentación			
	47-360	3,82			6489-C5-000532	0,04	>444,09		0,05 25°C / 0,06 80°C			
	47-337	3,8	36,9	12,9				OK				
			-	24,5	-			7.4				
				-								
				-	-							
	Acc. criteria		>18 n/mm		Ann admill							
	Criterio acept.	> mm,	23°C	>5 N/mm 804 C	Acc. criteria Criterio ocept.	ΔMFR ± 20%	≥ 400%	≥7 J/mm - 23°C	≤ 0,2 mm- 23°0			
Polyethylene	Frequency Frecuencia	sencio Costo disenti baria		Frequency		2.747	bwtch	≤ 0,4 mm- 80%				
HDPE (*)	STREET, SQUARE	COOD CICA INDEVINO	1 1/ turne	1/turno	rrecuencia		1/lote					
more ()	10 m	Talka S. Sala			HDPE batch	Flexib	villdad	Hot water Immersion (mm)				
			是自		Lote de HDPE	Flexis	bility	Inmersión en ag	us callente (mm)			
	A PRINT	10000000000000000000000000000000000000		500	2019-12-000295	0	ж	No disbonding	No disbonding			
	CHARLES TO SERVICE			200				-	140 DODGEGING			
				1 A 1 1 1 1	+ -							
	IN CHILDREN							,				
	公司	CARL E DESCRIPTION						-	-			
			C. T. DES	10000								
	ATTENDED TO SECURITION OF THE PARTY OF THE P					No cracks when bending at OTC						
				The Pres	Acc. criteria Criterio acept.	No cracks when	bending at OTC	Average disbonding s	Maximum disbondi			

.(*) Continuity test with satisfactory results in 100% of the coating surface. Residual magnetism < 30 G, Flexibility test Ensaya de continuidad a 25 kV con resultado satisfactorio en el 100% de la superficie revestida. Magnetismo residual < 30 G (**) Test performed at 23°C and 80°C

Ensaya realizado a 23°C y 80°C

TUBLILAR SYSTEMS

Balka Steel Tubular Systems, S.L. - 901509111



STEFA	Mittal Tubular Pro N CEL MARE ST AN, NEAMT RO	oducts Roman S.A. R, BL 15, SC. A, PARTER MANIA			EST CER	Page 1/9 B 16001/ 28.11.20	1	ArcelorMittal			
Buyer:	CUNADO S.A. CALLE CAMING SPAIN	D DEL CLIVAR ,2, MADRID,		SEA	MLESS STEEL LI	NE PIPES		Total weight: 74,737 tens 0 lbs	Total Length: 2 644.97 meters 8 677.72 feets		Bundles 36
Buyer's	PO NO. :PC00524		Standard:	API 5L ed.45-2012/ AP	P1 5L ed.46- 2018-1	PSL2; ASME B36.1	0M-2015; Pipes acc v	with Repsol specs and Al		Repsol 25	.09.2018
reference Contract	50003868	419		168.30 x 7.11 mm	Schedule: 4	0		Length: 11.50 -	t2.00 m 37.	73 - 39,3	7 feet
	Item			6.625 X 0.280 inch Bar	ner	100	T			200	
	1	120 L-6- R	Hydro Test:	196	PSI 2849	MPa 19.6	Time(sec)	Steel Grade:	BN - PS	L2	

				C	Ma	Si	8	P	Cr	Ni	Cu	Al	Mo	V	Nb	Ti	В	N
Heat	Bulletin	Product	Max	0.24	1.20	0.40	0.015	0.025	0.30	0.30	0.50		0.15		-	0.040	0.0010	-
	No.	Req.	Min		- 8		-		-	- 2				-	-	-		-
63490		Heet anal	yais	0.15	0.84	0.21	9.005	0.010	0.12	0.10	0.29	0.025	0.03	0.009	0.001	0.001	0.0004	0.0070
63491		Heat small	lysis	0.14	0.84	0.21	0.005	0.012	0.12	0.10	0.20	0.022	0.02	0.009	0.001	0.001	0.0003	0.0074
63497		Heat and	ysis	0.15	0.81	0.24	0.004	0.007	0.10	0.08	0.15	0.024	0.02	0.008	0.001	0.001	0.0004	0.0046
63820		Heat small	ysis	0.15	0.84	0.22	0.003	0.006	0.11	0.07	0.16	0.025	0.02	0.011	0.002	0.001	0.0003	
63837		Heat anal	yeis	0.14	0.86	0.24	0.003	0,008	0.15	0.12	0.17	0.034	0.03	0.016	0.001	-		0.0070
63845	8 28	Heat anal	ysis	0.15	0.83	0.23	0.004	0.010	0.01	0.07	0.20	0.038	0.02	-		0.001	0.0002	0.0046
63847		Heat anal	ysis	0.14	0.86	0.24	0.004	0.011	0.13	0.08	0.18	0.032	-	0.010	0.001	0,001	0.0002	9.0068
63848		Heat anal	-	0.15	0.86	0.23	0.002	9.007	0.10	0.09	-		0.02	0.009	0.001	0.001	0.0003	9.0070
63490	18-1918	Product en	-	0.15	0.84	0.21	0.004	0.008	-		0.16	0.036	0.03	0.012	0.001	0.001	0.0002	9.0076
63490	18-1918	Product and	-	0.15	0.83	0.21	0.003		0.10	0.08	0.20	0.026	0.02	0.008	0.002	0.001	0.0002	0,0080
63491	18-1918	Product and	-	0.15	-	-	410000	0.008	0.10	0.08	0.20	9.026	0.02	0,008	0.002	0.001	0.0002	0.0078
63491		-	-		0.86	0.22	0.005	0.010	0.11	0.09	0.19	0.021	0.02	0.008	0.002	0.001	0.0001	0.0083
-	18-1918	Product and	-	0.15	0.86	0.22	0.006	0.010	0.11	0.09	0.19	0.021	0.02	0.008	0.002	0.001	0.0001	0.0081
63497	18-1918	Product and	dysia	0.16	0.83	0.25	0.002	0.007	0.11	0.09	0.17	0.030	0.02	0.007	0.002	0.001	0.0002	0.0066
63497	18-1918	Product and	tlysis	0.16	0.83	0.25	0.002	0.007	0.11	0.09	0.17	0.029	0.02	0.007	0.002	0.001	0.0002	0.0068
63820	18-2015	Product nee	lysis	0.15	0.83	0.24	0.003	0.007	0.09	0.07	0.15	0.026	0.02	0.009	0.001	0.001	0.0001	0.0073
63820	18-2015	Product are	dysis	0.15	0.83	0.23	0.002	0.007	0.10	0.07	0.15	0.026	0.02	0.009	0,001	0.001		-
63837	18-2008	Product ans	lysis	0.14	0.86	0.24	0.002	0.009	0.17	0.11	0.16	0.034	0.02	0.015	-	*****	0.0001	0.0071
63837	18-2008	Product and	-	0.15	0.85	0.24	0.002	0.009	0.17	0.11	0.16	0.034	0.02	0.015	100.0	9.001	0.0001	0.0063

We state on our sole responsibility that the delivered products are in conformity with the order requirements.

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Quality Control Representative Eng Diffeor Ciprian

Formular 12A, rev.9

STEFAI (, ROM:	Milad Tubolas Prod N CEL MARE STI AN, NEAMT ROW	L BL 15, AC A. PARTER			TEST CER	Page 2/5 B 14004 28.41.20	л	Arcelor Milital			
Вирен	CUMADO S.A. CALLE CANTINO SPADA	DEL GLTVAR ,2, MADRID,	Staudard:		AMILERS STEEL L	10nl-2015; Pipas acc wis	Total weight 74,737 fees. 0 lbs	Total Len 2 644.97 1 677.72	(into	224	36 39 2016
Bryw's rationace Contract	PO NO. 9000524 5000,000 1000 1	· .	Dimensions	167-39 x 7.11 sam 6.625 X (4.24) 5-4 8am 196	Schedule: «	 		12,00 m		3-39,37	

			Ç	Min	Si	\$	P	G	14	Сu	A4 "	Mée	¥	NÞ	Tī	В	
Flage	Belleten Belleten	President Mint	8.34	1.20	0.40	0.015	0.025	030	0.30	0.50	·	£15	-	-	0.040	0.0018	———
	No.	Raq Maga		,	_ :.	-	-	•	·	-	· · ·			ŀ	-	-	
ФМ	18-2006	Product analysis	0.15	44.0	0.23	0.003	0.010	8.09	6.67	0.89	0.039	0.02	0.009	0.001	0.001	0.000	0,0044
63945	19-240E	Product malyets	0.15	E.\$4	0.21	0.003	2010	9.06	0.07	4.09	0.014	9.92	9.009	0.004	0.001	AUMO I	0.00002
43947	14-2008	Product analysis	#]\$	4.53	0.24	0,003	9.010	# J11	0.05	Q.#P	0.036	+.02	9.007	0.001	109.9	0.0002	0.0071
639-47	(\$-2008	Product see Jose	4.15	£	0.25	0.003	4,911	11.0	0.96	0.20	G#35	1,42	0.009	0.001	0.001	B,0002	0.0075
63 9.4 6	14-2044	Iroden malysa	0.15	0.45	423	9,691	6.000	41)4	0.06	0.1d	0.034	0.002	0.049	0.001	6,001	4.0001	0.0078
63844	14-2006	Printed malyes	0.15	0.86	025	0.002	0,000	4.09	0.49	0.15	0.034	0.02	0.0ek	0.001	4.001	4,0041	4.6677
												7.0-2	7.277	T		-14441	*****

Chemical Analysis(%)

		, , ,				
	CE DW	NV + TL + V	18b+ V			
	₫.43		0.060	Protect Max	(Ballicon	₩
	-	· ·	, ,	Mina Mina	Ho	
	434	0.0 13	0.010	Heet analysis		63491
	0.33	0.91(0.040	Heat apolysis		65491
	0,167	0.010	0.609	Flort studych		5)-897
	···	0,414	COD	Per and yets		63820
		6.018	4 017	Mont semiyate		63437
		0.012	p.411	Heat exalyses		43845
		10.0	#A)5	Heat waityes		
	, bid	E014	0.013	Host walyers		₽₽
-	0.33 0.34 0.31 0.33	0,414 0,418 0,912 0,911	0.017 0.017 0.011 0.015	Peer analysis Next sentysis Heat analysis		6342)

We state on our sole responsibility that the delivered products are in conformity with the order requirements.

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Quality County Represents

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Postupley 12A, yev.9

Manufactures: Arcdominal Tubeler Produce Roman S.A. STEFAN CEL MARE STR, BL 15, SC. A. PARTER I. ROMAN, NEAMT ROMANIA			EST CEI	RTIFICATI	E	Page 3/9 B 14004 28.41.20	ri .	Arce	F MIMnol	j
CARLE CAMINO DEL OLIVAR, 2, MADRID, SPAIN		98 <i>0</i>	MILESS STEEL I	INE PIPES		Total weight: 74.797 tene 6 the	Tetal Les 2 644.97 8 677.72	Nation 5	90001 Blue 224 : ;	146 346
Bayers PO NO. :PC0052419	Dinodard: Dinamicos:		Scholiste:	-PSL2; ASME RS6.10			MR Technica 12:00 m		paci 23.09.2	
Contract 500013000	Hydro Teir:	6.625 X 0.250 (ma)	PA	M2N		Start Cleade:		ON - PSIL		_
1201.6-R	L	196	2849	196	. 10	1		_		

			(M) + V	Nb + Ti + V	CB ITW
Hen	Delicite	Product Max	0.060	· ·	Δ43
1174	Nα	Ros. Min.		•	
63490	14-1919	Product analysis	0.010	4.011	0.53
47494	10-1914	Product analysis	0010	0011	#35°
43491	14-1916	Product study in	0.010	9.011	0.54
43491	11-1916	Product enablysis	9,010	4.01;	0.34
63497	웨이네	Product soulypus	0.000	0.01+	0.34
63497	11-1916	Produce enalysis	0.609	0.010	9.34
63820	38-20/5	Prodoct analyses	0.010	0.011	0.33
989	38-2515	Product enalysis	0.010	GAI:	0.33
41837	(N-2806	Product scotysis	0.016	Ú OIT	A34
ថាល	18-2008	Product easiye's	0,016	9 017	9,35
6784\$	14-2009	Product sandypis	0,010	0,011	0.33
63045	12-5040	Product analysis	4.010	<u>0.011</u>	(B
63947	16-3104	Product confyris	⊕© 10	041L	0.34
65847	16-2900	Product analysis	4.010	0.041	8,34
6244	10-2006	Product analysis	9019	0.01	0.33
©#48	18-2006	Product analysis	0.009	0.00	0.33

CEpare = C+Si/30+Mp/29+Cu/20+NL/60+Cr/20+Mo/15+V/(0+SB

CE_\$ - C+MR6

CEAN -- C-MINK (CM NO+V)/S+(NI+CN/15

0.40 + 14.6 0.00 + 14.6 0.00 + 17.11.21

We state on our rate responsibility that the delivered products are in conformity with the order requirements.

Opinion Cortago Responsementos Ind. Design Cortago

Formula: 12A, ray 9

Arodori STEPAI E, ROM	Aroskovina Tuboko Prokon Roma S.A. STEFAN CEL MARE STR, BL 19, SC. A, PARTER I, ROMAN, NEAMT ROMANIA				EST CER	RTIFICAT	E	Fago 4/7 D 15994 24.33.34	a	Arcel	orMi	<u>a</u>
Pilyin:	CUNADO S.A. CALLE CAMINO SPAIN	DEL OLIVAR ,2 MADRIO,	Standard:		MUESS 57 WELL L	· · · · · ·	044-3015: Pipes acc wil	Total verigid: 74.737 icas 0 ibs	Total Lan. 2 644.97 5 677.73	Monoro Techa	224	36
Buyer's reference Catalogues	PO NO. SKINOS241 Seek Short Franç 1		Dincados	361.30 x 7. 1 mgs 6.625 X 6.280 lock Ber 196	Solvadule:				12.00 eq		39,37	

Tensile Test

		La	cà.	Widt/	District	1100	Lacra.	500	tice .	Mechanical test	YS	Y\$	UTS	UTS	В	YS/UTS
Heat	Ovientation	ومقا	inch		imah		Inch	120°	trace*	Beliptin No.	MPs	(751:1000)	MP	(PSL:1000)	%	max: 4.90
63446	Longitudinal Flat	30.2	5	40.00	1.575	7,60	0.299	304.0	11.969	12-4304	368,00	53.4	517,00	75.0	40.90	0.71
63490	Longitudiani Flat	50.8	7	40.00	1373	8.56	0.335	34 ₽ .0	13,346	19-4361	351.60	50.9	491.00	71.2	41,10	0.71
63491	Couplestian Flat	50.£	1	40.00	1,575	7.90	0311	3160	12,441	18-436)	362-00	52.5	513.00	74.4	-0.80	0.71
63497	Longitudinal Plan	50.8	7	40.93	1 575	\$. J p	0.)L9	324.0	12.756	18-4364	360,00	53.4	512.00	74.5	40.60	0.72
63120	Longitudiesi Flat	50.1	1	40.00	1.575	7.60	0.307	3120	12,283	18-4530	334.00	\$1.3	487.60	70.6	39,90	0.73
43437	Longitudiani Plut	50.3	2	40,00	1.575	7.60	0.359	304.0	11.949	18-4514	364.00	721	507.00	73.5	39.60	9.72
63645	cogindinal Flat	50.8	2	40.00	1.575	8.30	0.321	332.0	13 071	18-4314	₹ 9 1 00	56.7	536.00	77.7	38.30	0.73
63145	Longindinal Plat	508	2	40:00	1.575	8,60	0.339	344.9	L3.543	18-4515	373 00	3 4.1	\$13.00	24,4	40.30	9.73
63645	Longitudinal Plat	50.8	2	40,00	1.575	6.20	0.333	328.0	12.913	18-4517	373.00	54.1	514.00	74.5	34.60	0.73
Q147	Longitodinal Flat	50.8	2	40.00	1.575	7.70	0.303	301.0	12.126	18-4514	393.00	57.0	350.00	79.8	40.00	0.71
63847	Loughtedistal Plat	50.0	2	49,00	1.575	\$.30	0.327	332.0	13.071	18-4516	368.00	53,4	509.00	73.8	41.30	0.72
63847	Longitudinal Flut	50.0	2	40.00	1.575	6.10	0.327	332.0	13,071	10-4517	370.00	53.7	512.00	74.3	39.00	0.72
63848	Longitudianal Flor.	30.8	2	40.00	i.575	620	0.323	323.0	12.913	18-4514	103.00	\$5.3	528.00	76.6	41.20	0.73
6384R	Longitudina) Flor	50,8	2	40.00	1.575	_				18-4570	407.00	59.0	564,00	51.8	38.50	0.72

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We state on our note responsibility that the delivered products are in condominy with the order requirements.

Formular 12A, rev.9

STEFAN I, ROM/	Cital Tabular Prod I CEL NAME STI IV, NEADOT RON	C BU 13. SC. A, PARTER	· · ·		EST CER	E	Fegs 5/9 B 16001/ 38.11.20		Arcel	or/Witted
	CALLE CAMBIO SPAIN	DEL OLIVAR 2, MADRID.	Si-oford i		AMILESS STEEL U	 OF-2H 5; Pipes acc wij	Total weight: 74,737 sons 0 Ros h Ruppol specs and A	Total Lan 2 646.97 8 677.72 MR Textrologi	turiers Jacq.	224 36
	PO ND. (PC00524 5046/3348 http: 		Dimensions:	160.30 x 7.11 mm 4.625 X 0.290 inch Bur 196	Schedule: 4			12.00 B		39.37 Sect

Impact Test

Т
LHard Expansion win. men
0.75 0.76 0.77
0.71 9.85 1.00
0.73 0.77 0.73
0.81 D.80 Q.\$1
0.85 0.77 C.75
449 491 0.87
0.76 4.76 0.81
0.74 6.77 0.76
0.82 4.78 D.79
0.50 0.79 0.79
0.77 0.27 0.43
0,77 0.89 0.79
0.83 0.77 0.20
U67 0.67 0.72

Hardness Test

Heat .	Harbert Tes	HB max 215	HV 10 max.			HV 10 max.		·	HRC mex
	Bulletin No.		14.4 4.5 killing.	OD OD	Medeall	5 D-	Pad A	End B	1
43499	(8-3519	140:149,150;147	. –					•	4.
63470	(4-3589	150;148,(47;149	•		,	· ,	12 P. T. B. J.	N -	ے

We state on our sole responsibility that the delivered products are in conformity with the order requirements.

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Formular 12A, rev.9

STEFANC I, ROMAN	on Tabular Products Roman & A. Cel Marib Str. bl. 15. bc. a. Parter C. Neamt Romania			EST CE	RTEFICATI	E	Page 6/9 B aphter 28.12.20	•	Arcelon	A Mirror
c	CNADO S.A. CALLE CAMINO DEL OLIVAR 2, MADRID, PARI	Standard:	-	WLESS STEEL			Total weight 74.737 jops 0 lbs	8 677.72	nielers Retr	1
Contract 9		Diction con-		Schodule:			r	12.00 ps	37.7) - 39. N - PSL2	
	120 L-6-R		196	2849	19.6	10	OFFICE CHEESE.	В	M · FSLZ	

Hardway Tost

	Lurdness Test	HB max.215	WV 10 mag.	'		HV 10 case.			RRC man
	Bulletia No.		HY 10 COL	00	Midwill	<u> </u>	End A	EndB	
63490	14-3641	264 <u>(166;1</u> 63;163	<u> </u>			 	-	 -	
67-000	18-364)	144;151µ64;163		-	1 , - 1	-	 		
63401	18-3441	162,140,163,161	-		 				
63493	16 3441	160,141,163,163	· ·	- -	 				4
63497	P\$-3641	142;142;144;165	, –		 		 		
63497	16-3641	162;161;183;164	-	•	† . 	•			
63820	18-2016	150;156;157;150			 				
63820	18-3416	157(88):156(158	 	.	 , ·- -		!	-	
63837	18-3792	161;460;199;162	 	 _	 	- -	 	·	 -
6383	18-3792	168;158;199;161	 		 		├──┊─ ┤		
63845	18-3991	163;162;360;161	· · ·		† 	-	 	· · · · · · · · · · · · · · · · · · ·	
63845	19-3791	(दि:।स::१०:)ध	, 	_ .	 - 	 :	 1	 -	
63#e5	18-3792	162:141:163:164	 		 			-	
63845	183792	160;(41;162;161	 		 	-	 	-	
63845	26-3793	165;164;164;142	 		 		! 	·	
63445	18-3790	164;162;163;16t	 		 	-			
23917	12-3771	161;139(364;162	 		 	_ - -	 :	'	< -
राबक	16-3791	139;130;140;161			- : 		 	· · · · · · · · · · · · · · · · · · ·	<u></u> .
63847	18-3792	154;159;161;160	 :: +		! : +		 		
		,,			<u></u>	•	100	-	

We state on our sele responsibility that the delivered products are in confessity with the order requirements.

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Formula: 12A, nev.9

Arcela STEFA	MANNER MINISTRUCTURE MARE STR. DL 15, SC. A. PARTIER AN, NEALIT ROMANIA CUNADO S.A.	MILL TEST CERTIFICATE	Page 7/9 B (400/2) 25.61.2616	ArcelorMittal
	CAELE CAMINO DEL OLIVAR Z. MADRID. SPAIN	Standard:	Total Les 74,737 tenn 2 S44,97 9 Re 8,677,72	marers 224 36
	1	A71 \$1. ol.4643012/ API \$2. ol.46-2014-PSL 7: A\$146 B36. b(p4-1015) Pipes are well Dimensional (68.30 x 7, 1) tum 6.625 X 0.260 in 4 Hydro Test: Bar	Later 13.50 - 12.00 s	1 Offic Report 25.59.2016 57.73 - 39.37 Aut IN - PSE-2

Hardness Test

Heet	Randiscou Time Ruffice No.	RB max.215	HV Mas			HV ## mas			PERC PERC-
63247	18-3792	160:159;150:161	 	 	Midwell	<u> 10</u>	Bod A	End 13	TEKU MERA
63847	18-37ps	162,161,159,160	†	 				-	·
63847	18-3794	159(160(160;160	<u> </u>			<u> </u>	├ ── [⁺]		
OH:	18-3792	159:157:154:159	-	 	 -	-	 (<u> </u>	٠.
63848	18-3792	158(159)157(157				- `	├── ┴─ ─	<u> </u>	<u> </u>
63848 63848	18-3415	163(164;162;16)			 	<u> </u>	 	~ - 	₹.
****	11-3005	162:163;161:160	<u>.</u>		· ·	<u>;</u>		_ 	<u>-</u>
									45-

Hos:

Hoek	Picces	Longia (sp)	Weight (kg)
63490	-	- '	
63491	1		
63447	6		
69.030	16		 -
63437	26		- -
63843	70		-
630247	16		·
63849	*8		_ -

We state on our sole responsibility that the delivered greducts are in equipment with the order acquirements.

C. CHITMAN PAO. TSK 21. 4. 2011

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Designation Contac

Forwarian 12A, My-9

Manufacturer: Azocioridical Tubular Products Roman S.A. STEPAN CEL MARE STR. BL 15, SC. A. PARTER IL ROMAN, NEAMT ROMANIA	MILL TEST CERTIFICATE	Page \$/5 B 16991/1	Ameliadalitical
CARLE CAMING DEL OLIVAR J. MADRID. SPAIN	\$EAMLESS STEEL LINE APES Standard:	74.737 kms 2 644.97 b to 8 677.72	fracti
hery New Chient	6,625 X 9.259 inch	Linglic 11.50 - 12.00 ep	37.73 - 39.37 feet N - PSL2

PIPES EN COMPLIANCE WITH PED: 2014-68-EU/15.05.2014, ANNEX 1, SECTION 4.3. & 7.5

Maguifacturing process - bot rolling.

Hot finished, seed is fully killed and produced by electric furnace, source G000108.

Visual inspection and dimensional check without objection.

Heat treatment: normalizing at temperature 910 - 940°C, time scaking 4 min.

NOT toll body:

-100% ultrasouic testing in accordance with ASTM E213 . Le +Li (12.5 % from W.T) - estisfactory, NDT for the pipe ends:

ultrasonic testing: Le+Li (\$2.5 % from W.T.) — setisfactory.

detection of laminar imperfection on the pipe ends, surface coverage - satisfactory.

- bevel at each pipe and have been inspected for defects by wet magnetical particle, without stratification - satisfactory.

· ultrascole inspection to verify that the 50 mm wide 2000 at each pipe and is free of such laminar imperfection.

Hydrostatic test hold for 10 sec. no leakage noticed.

Hydrostatic test hold for 20 sec. no leakage noticed. (for a percentage of 10% of pipes):

scriel: 2-18-47-1381; 2-18-47-1476; 2-18-47-1398; 2-18-47-1406; 2-18-47-1469; 2-18-47-1388; 2-18-47-1392; 2-18-47-1483; 2-18-47-1387; 2-18-47-1438; 2-18-47-1455; 2-18-47-1488; beat: 63837

serial: 2-18-47-332; 2-18-47-372; beat: 63847

scrial: 2-18-47-519; 2-18-47-591; 2-18-47-520; Best: 63848

actial: 2-18-47-1518; 2-18-47-1516; 2-18-47-1525; 2-18-47-1361; heat:63820

strial:2-18-47-480; 2-18-47-402; beat: 63845

NDT After hydrostatic test, (mex.5 pcs)

serial : 2-18-47-426; 2-18-47-411; 2-18-47-440 ;heat : 63845

sorial : 2-18-47-523; 2-18-47-5)8; heat : 63848

We state an our sole responsibility that the delivered products see in conformery with the order requirements.

Formalia: 12A, rev.9



A31 Memberlaring Florid	ASS toper.Dc=Gertiffseter 24ter Metribet	AGA Functioner	ADT Persburg Coder		A30 B35 Palarene	· ·
Reneco GeneralSider S.p.A.	2488/2018/4 19/09/2028	990295 CUNADO: 5.A.U.	P.O. P00052133 -0	5709/2014	965/2018 ·	- 07/09/2018
via Sueiro Carboni, I.	Belinney Works	CL CAMINO DEL OLIVAR, 2	!			j.
66100 CHFT	<i>f</i> ···	28806 ALCALA DE HENANES-MADRID PS	_			
B31 Product Description	-	· · · · · · · · · · · · · · · · · · ·	B18 Discussion (mm)	032 Well THENES! (1944)	\$19 Length land	B03 Seed Grade
completed mally "HEW" small	led carbon steel pipes manufactured a	coording to API St. Gr. BM PSLZ 45th Ed. Internally and enternally bare.	3\$5,6	6,40	12.00	GR.EM
bevelled ends.			\$01 Normalities during on	K.		•
				AFI 5L- P9	LZ.	
			S (d Marrier of p ps	111 14842	213.W	ter (d)
			32	384,000		
		 -			<u> </u>	
1		Oliver Annals				

					Cha	mical Co	этроні	tion - P	roduct	<u>Analysi</u>	is.						
Identi	Acation Test Pieces	Д	Ċ	Cr	Ĉu	Mn	Mo	Nb	Ni	P	5	Si	Sn	Ti	v	V+Nb+Ti	CEQ
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015	$\neg \uparrow$	1201106	TF-	521.74				\sqcap											┌	<u> </u>			L
esend: UL	=lose	itudina) c	O DEDE	body - TCyTr	arsversal on	alge body - TS	-Transversal	90 W##	ggend: UL=Longitudina) on page body - TC+Transversal on pipe body - TS+Transversal on weld spam														

HYDRAULIC TEST: pressure 53 bar. Duration 5 seconds. Results positive on 100% of pipes.

· · · · · · · · · · · · · · · · · · ·	
T GET T TIPLE	Redult
Visual examination and Dimensional testing	POSITIVE
Flastening less and Mesallographic Test	POSITIVE
Non Destructive Testing 100% a trasonic test according to 4PI St. level N10	POSITIVE:
Migranum temperature for heat treatment of the world seam : 900°C	POSITIVE
013) CE P:m = 0,173 % (Max 0,25 %) 014) CE P:m = 0,170 % (Max 0,25 %)	POSITIVE

I produtti forniti sono conformi di requisiti dell'ordine. / The products supplied are in compliance with the requirements of the order.

401 Nonetherning Parm	Will represent Continues the Number	PLIS Perchases		407 Furcheser Order		A30 MGS Parteries	*
Prograv German-Geler Sigual. Via Marino Carboni, 1	2188/2018/A 19/09/2018	990195 CJMADO S.A.U.		P.D. P00052133 -05	H09/2018	965/2018	- 07/09/2018
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·				B10 Number of page	814 Missey	315 We	distribution of the state of th
				32	384,200		

Riveco General/Sider S.p.A.

Outside Department



TUBOS REUNIDOS GROUP, S.L.U

Barrio Sagarribai, 2 - 01470 AMURRIO (Spain). Mill: TUBOS

EN 1020a 200a / 3.1

CERTIFICADO DE CALIDAD MILL TEST CERTIFICATE

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PAGE 11:00

Nº 0000359684/4 Rev. 000

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MATERIAL PROPERTY (N. 1934)

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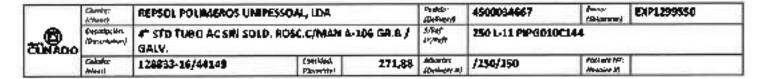
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TUBOS REUNIDOS GROUP, S.L.U

Barrio Sagarribai, 2 - 01470 AMURRIO (Spain) Mill: TUBOS

EN 10204(2004 / 3.1)

CERTIFICADO DE CALIDAD MILL TEST CERTIFICATE

265 H.M. URBS 6

PAG: 2 10

Nº 0000359684/4 Rev. 000

ENSAYOS NO DESTRUCTIVOS / NON DESPRETURE TESTS

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8	CREME!	REPSOL POLIMEROS UNIPESSO	AL, EDA		Periode: (Delicary)	4500034667 (Palament) EXP 1299554					
CUNADO	Eleactic beat	4" STD TUBQ ACSIN SOLD, RDS GALV.	C.C/MAN	A-106 GR.8 /	(Amet (Amet)	250 L-11 MPG010C144					
	Colecto.	128833-16/44149	Councied*	271,88	Afteriori (Artista at	/250/250	Foolersh NP: America sh				



TUBOS REUNIDOS GROUP, S.L.U

Barrio Sagarribai, 2 - 01470 AMURRIO (Spain) Mill: TUBOS

BN 10204:2804 / 5.3

CERTIFICADO DE CALIDAD MILL TEST CERTIFICATE

OF ATTACA STATES STATES

PAG. 3/3

Nº 0000359684/4 Rev. 000

ENSAYOR DE TRACCIÓN / TENSIA TRAT

COLADA	N*	(1)	TP (2)	DIMENSION (ne)	L.SLAST. WEG POWY (Mga 113)	R.TRACC. ExtMinima (Mpa)	ALARG. G.ONG. (S.) (4)	Estriction Reduction of Area (%)	11/4	UREZA JUMB J		WEDLA TOTAL
ми Мах.					248	415 510	29					*
120933 120933	2	i.	P P	25.10 a 6,500 71.10 a 6,300	7HJ 336	480 47d	36 36		71 76	3† 27	रेर रा	77 21

(i) | L = LONGITUDINIAL OFF = TRANSMERSAL
(ii) | T = Full size whe A P = Drip specimes of C = Cylindrical OFF = First specimes
(ii) | Weld point (0.5%)
(ii) | L = 2 * (50 mm)

ENSAYOS DE IMPACTO - CHARPY V / IMPACT 1927

COLADA	No	었	DI	MENS NA)	(*C)	R	ESILIENCIA		AYG (J)	AREA DUCTIL	ESTILICATION RED Abble (%)	
			10	10,00	20		31 (31				R AFFILE
121430	1	4	ю	3,00	10	78	35	17	ijř.			115 (85)

(i): L - LONGITUDEIAL # T - TRANSVERSAL

ANEXOS / ANNEX

PULLY WELLES MADIATION THER MERCURY PERS NO MESO BEPARA

TEMPLE THAT ACT TO TES 4982-1:2019

EUT.	T P	DIMERSTOR High	Imp?) Albro sonat	digential 2	ELONIE. (4)	apple and a
124537	Ļ	24.16 1 6.700	360	492	17,40	79,0
128333	L	\$3,80 k 4,604	444	497	\$1,40	40.0
120791	L	24. 10 L 6.501	78-9	102	30.40	40.0
120731	ti-	25.10 6.504	167	492	31,00	78.0
284435	L.	\$5.10 p 6.54a	241	463	10,48	7T.0
170931	L	25.20 2 6.740	343	475	19.00	76.0
124827	Ļ	25,10 1 6,444	348	486	13.09	70.0
126933	L	25,40 3 6:544	344	493	51.00	84.0

10- P PROPORCIONAL - 5.65 X DOM YEELS POINT (Nº 0.5%)

AMURAIO MAILEMA

CONTROL DIS CALIDAD DE TUBOS REUNIDOS CIRCUP SEL TRUBOS TUBOS REUNIDOS CENTROS PEROS PEROS

ČÍNA PO	(News)	REPSOL POLIMEROS UNIPESSOAL, LDA			Parities (Delivery)	4500034667	Erwice (Shipmont)	EXP1299550
	(Whereas a large)	4" STO TUBO AC SIN SOLD, ROSC.C/MAN A-106 GR.B / GALV.			Springs anythings	250 L-11 MPG010C144		
	College (*College	122833-16/44149	Condition to the control of the cont	271,88	Albardo: Bir Puro: All	/250/250	(lection ##:	



PARKING THE CATE CHIEF SHOP HER USERS TAKEN

QUALITY SYSTEM CERTIFIED

BY 150 9001:2015 STANDARD NO ESON 7330

....

Reg.32 Edic.04. Julio./017

CLIENTE: CURADO

(Customer)

REF. GALVEKSA

Albarán 759/23

(Med Goheran)

REF. CLIENTE: ME0012393-1802

(Ref. Customer).

CERTIFICADO Nº. 0228/23

CERTIFICADO DE CALIDAD

QUALITY CERTIFICATE

CERTIFICATE OF COMPLIANCE WITH THE ORDER

FACTURA:

(Annige al) FECHAL

09/03/2023

CORPORADO ANTONIO

GALVEXSA. Emprese dedicade a la galvanitación en caliente por inmersión CEPTIFICA QUE: (GALVEXSA. Company dedicated to the hot op galvanizag. CERTIFIES THAT:)

- Le calided del zinc usado es conforme e la norma UME-EN 1179, The quelly of the zinc used is accordant to standard UNE EN 1179)
- ⇒ Los feéterfeles indicados cumplen les normes de galvanizado UNE-EN ISO 1661 y ASTR 122 (haterels men de standards of galvanizad UNE-EN ISO 1661 y ASTR 123)

TABLA 3. UME-EN ISO 1461. Espesores minimos arimisides del espesor del recubrimiento galvanizado.

(Minimum allowable thickness of the galvanized coatings) Pipo de plase y aspesor (Piece tale and fractions) Espesor local on are fraid; minings (Local Espense mecho en pro-frator arbitroj Michiness in pre-pariormism values). 70 35 (Mean thick in pro (minimum value) Acerp/Steel > 6 quot Acero/Sileel >3mm heste/unbi \$5mm Acaro/Stool ≥ 1,5 mm hastaruntil ≤ 3 mm Acora/Sten/ <1,5mm Plazar stollfordas/Casting materior Pezas meideadas/Cessinf metenals 70 80 69 M <5 mm

Squipe de controt. Elcometer 456 N° de seus PA00360 (Cristi solemen) Resultado del controt: Resultado del controt:	Inspección visual 100%: Ox (Vand reputa (00%)		
Descripción del material (Description of the material)	Expetor modio de recubrimiente (Maan Inick costing) (um)	Gre/m2	
4" STD TUBO AC SIN SOLD, BE A-106 GR.B - COLADA R59064 (114,00) 4" STD TUBO AC SIN SOLD, BE A-1166 GR.B - COLADA R59064 (48,00) 4" STD TUBO AC SIN SOLD, BE A-1166 GR.B - COLADA 128833 (114,26) 4" STD TUBO AC SIN SOLD, BE A-106 GR.B - COLADA 128833 (142,28) 1" STD TUBO AC SIN SOLD, PE A-106 GR.B - COLADA 128833 (42,28) 1" XS TUBO AC SIN SOLD, PE A-106 GR.B - COLADA 23995 (24,18) 3" STD TUBO AC SIN SOLD, PE A-106 GR.B - COLADA 23995 (24,14) 1" XS TUBO AC SIN SOLD, PE A-106 GR.B - COLADA R59124 (12,14) 2" STD TUBO AC SIN SOLD, PE A-106 GR.B - COLADA R59124 (12,14) 2" STD TUBO AC SIN SOLD, PE A-106 GR.B - COLADA R59124 (12,14)	>100	>728	
Observaciones: (Remeds)	Galvexsa		



DM4.00	CAecra: (CAecra)	REPSOL POLIMEROS UNIPESSOAL, UDA			Plothelia. Abstracyt	4500034667	Ermity: Material REP	EXP1299550
	Descriptions (Descriptions	4" STO TUBO AC SIN SOLD, ROSC.C/MAN A-106 GR.B / GALV.			s/est sresp	250 L-11 MPG010C144		
	Collector (Trace)	128833-16/44149	Consider: Check Cal	271,88	Attenden: Horizony (II)	/250/250	Factors No. Georgies (I)	,

Industrias Mecanicas Sumeca S.L.

ARGANDA DELREY 4MAYO 20

CERTIFICADO DE MECANIZACIÓN **MACHINIS CERTIFICATE**

Pedido de mecanizado (Machining Order)

MS0012925

Clente

(Common)

CUMADO

Albaran de macenizado (Machining Delibery Note)

36574

Certificamos que el material descrito a continuación ha sido mocarrizado setisfactorismente cumpliendo con todos los controles realizados de activido e les normes de fabricación y de dimensión aplicables.

We cartify that the material described below has been satisfactorily machined, complying with Blandards

at the controls carried out in accordance with the applicable manufacturing and dimension.

DESCRIPCION MATERIAL (URITS) (MATERIAL DESCRIPTION)

567,57 2"X8 TUBO ACSIN SOLD, GALV, A-1065 C-R09766 (-1222460 (129266

HACER ROSCAR EXTREMOS NPT

3"STD TUBO ACISM SOLD, GALV, A-1068 C-2395 36,30

HACER ROSCAR EXTREMOS NPT

433,88 4" STD TUBO AC 9IN SOLD, GALV, A4068 C-R59064 / 121839

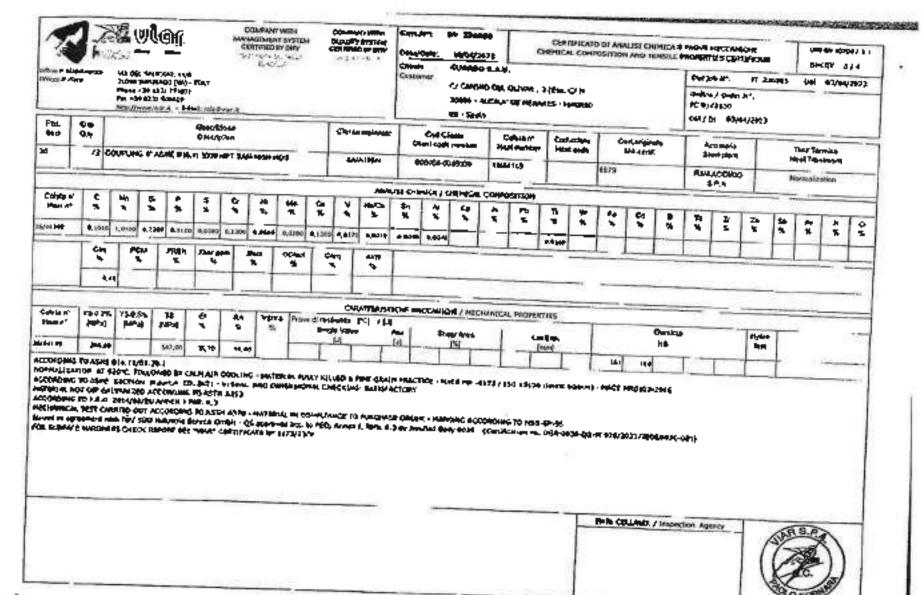
HACER ROSCAR EXTREMOSNPT

Control dimensional (ASME 836.10) satisfactorio Dimensional Control (ASME B16.10) Satisfactory



20насо В Сола	(Busine)	REPSOL POLIMEROS UNIPESSOAL, LDA			Paddo: (Dellarci)	4500434667	finite: f2Upmmil	E)P1299550
	Description)				much mach	2501-11 PPG010C144		
	Coreos: Disert	128833-16/44149	Carninos*	271,88	Alboritory Al	/250/258	Fortigry NA: (Problem #)	

Mand :	33	Cheere PLE
128833-16/44149	e" sto tubo ac sim sold, rosc.c/man a-106 gr.b ; galv.	REPSOL POLIMEROS UNIFESSOAL, LIDA
Changes.	C.C/MAN	¥-10%
271,88	_	
All designation of	SAMO.	Applicated to
/250/250	250 F-31 MINEDIOCIA	4500074667
Secure de	E	(Diseased)
		EIØ1299550





阳华菱钢管有限公司 HENG YANG VALIN STEEL TUBE CO.,LTD

Code Vendable An opposition Confide

产品质量证明书

1102628

[6]P.新规南省衡则市大栗新村40号 傳稿 421001

INSPECTION CERTIFICATE Lental Graph of City House PR. Chem. P.C. 421001

CUSTONAPA. ACCORDING TO EN10204-2004 3.1 COMMODOL SA CONTRACT-ITISH NO -CERTIFICATE NO.: Thabeau. ZW légas (Phile 23406296 FOLMO. DATE: eceloras-MODULT: 201596439 OF LIVER Y COMMITTIONS Stranigo Law Pice РЯОСИСЬ ОР МАНИНАСТИКЕ MATERIAL SEARCH Normalizati SPECIFICATION: CHICULAN MULLUF SECTIONS MEAT TREATMENT ASTN A HALLA PROME SHIP реженфоне, 275X17.7res*10er-14.6m **EHAB**K GRADE 41068 PARTY CASCUME. Fair He do Mitto Histories DE REDING MANEY ASHE BINDS MC No. TOTAL BUNDLES-11 TOTAL PIECES: DE MANINO DATE: 11 TOTAL LENGTH NO. 118.47 TEST LOT No. TOTAL WEIGHT HEAT No. BUNDLES MPACT TEST NOTCH TYPE/ORIENTATION/TEMPERATURE(*C)/SIZE (mm): LENGTH PIECES WEIGHT min m WI 48 Jun ALIR max 924 ALC: N mis 934 4 523030283 23302307 2 11 п 118.47 9.658 3 5 TENSILE TEST(S T > 38mm/L/50) SAMPLE TYPE-SIZE(mm)/ORIENTATION/GAUGE LENGTH(mm) MO. KARDNESS TEST (HVIO) YS(MPa) HANDED TSIMPA NORMETAL INCLUSION (Severity Level No.) PLOS: **OTAN** PROJECT RAGN Po 0.5 **ን**ፕ/ተዩ Birpido Middle. Print. Type A Outside Тупс В 240 Type C Type D T) po 294 may. HIT ste. H T H T H T Ds. -1 4607 354 472 2 14 1224 Sprinkling Publish 3 4 MYCHOSTATIC TEST ARRIDGAL MACNETIC PLATTENNIC TREET 13/5 MPa/s ACCEPTABLE MENDOW) TEST MACAGGORIC TEST ACCEPTABLE NOTE: CONTING VIDUAL & DIMENSION WI-THEORETICAL WRIGHT Av.-AVERAGE ACCEPTABLE S.A.-SHEAR AREA W2-ACTUAL WEIGHT AKI-ABSORB ENERGY FOR THE FIRST SET SAMPLE ORIENTATION: L-LONGITUDINAL 7-TRANSPESSE AK2-ABSORD ENERGY FOR THE SECOND SET SAMPLE TYPE: S-STRIP B-BAR P-FULL-SECTION N/A-NOT AVAILABLE TENSILE&IMPACT&HARDNESS TEST SAMPLE LOCATION:PIPE END Register of Shipping confiscace NO.: LE-2006 EXPANSION MPB END MACHINING ACCEPTABLE Surveyor or customer third party: Cortificate-maker: 12.55/24 Quality Manager:

所中华委钢管有限公司 HENG YANG VALIN STEEL TUBE COLLID

Gigmal

Scattered Offi Cade V-Carried to ≒y≪lika Conditions

产品质量证明书

1102629

國惠省衡別市大型新村10号 邮箱 42140日

INSPECTION CERTIFICATE TO Dalizoneun. Hempang City: Human J. R. Chima B.C. 421001

INSPECTION COMPRISATE HEAT HO ACCORDING TO EN10204-2004 3.1 TEST LOT No. CERTIFICATE NO.: C CHEMICAL COMPOSITION (%) Si Mp. 23406296 G N THET LUT NO. Cr He 710 SUME SUME SUMO 2) 4 3 1 1 , 4 Sentend range 10 , 20 2 (inter-21 i Po 15 150 -440 400 156 25101307 100 13 4000 ж +7 17 41 4) 17 \$70maga 56 14 40 ٠ 14 114 79 30 92 45 31 47 30 113030241 52 13 14 29 136 91 t. 15 30 47 20 52 15 30 137 11 3 5

Perman	NOT Type	ET (Drilled hotel Sept	APPI Scariffring Tess	Longitudinal CQU	AREAN type notch)		ARE/N type notch)				
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PIPE SND	m			III, bump	itres	continue perpo-	Americal Surface	(Flat bellow hold \$400	Coverage %	design 4	Res
BILVIEL				II APT	of Falley						Wada
E:	LT-ASTRE STEMPL-	ACYSIS									wasse P

CHEMICAL COMPOSITION*18: 0-×1 1-×10 2-×100 3-×1000 4-×10000 5-×100000

SUM6:Nb+Ti+V;SUME:Cu+Ni+Cr+V+Mo;SUMG:CE; The latest receives of any undated standard applies to this contribute

We hereby decision due the product herein described has been extended, sampled, seried or improved, or both, in accordance with that standard and specifications requirement for requirements. This carriffcom is exceed by a computative of system and it is read with electronic rigurator. In case the current of the contillents would referre a copy of it the most mast its conformity to the original one taking upon bimself the

If you meet to exage the authoritisty of this contificate please do not heretare to contact Hongyard Valin Stock Tube CO. J. TD, E-mail: hogographymostocks.com

Regioner of Shipping comments NO.;

Surveyor or customer third party:

Certificate-maker: 早饭坊

Auditor:

misk #8

Quality Manager:

和群唯

Page: 2/2

Assionation Tobale Product Rober S.A. STEPAN CSL MAKE STR, DL 15, 9C, A. PARTE I, ROMAN, NEANT ROBENIA Beyon CUNADO S.A.	MILL TEST CERTIFICATE	Page 99 D (600/1 28.61.2008	Arcelor Mittel
CALLS CANDING DEL CILIVAR ,2, MADE SPAIN	SEAMLISS STEEL LINE PIPES	70tal weight. Total 1.a. 74.737 total 2 700 8-677,72	Onto: Pincer Bundle
Populs PO NO. (PC4053419 Therefore (50463344)	AM St. ad.45-1012/AM St. ed.46-2018-P38.2; ASAM B76.1464-301.5; Physical at Chaptershame: 19839-x 7.11 mm Schaduler: 40		<u> </u>
Firega Hoppa Cilinat 120 L-6 R	Hydro Test; Bar P21 MP4 Time(acc) 196 2549 19.6 (0	Attended to the second	IN - PSI.2

NOT full body:

-100% ultraamic testing in accordance with ASTM B213 : Le +Li (12.5 % from W.T) - satisfactory. NDT for the pipe ends:

ultrasonic testing: Le+Li (12.5 % from W.T.) — satisfactory.

detection of laminar imperfection on the pipe ends, surface coverage - satisfactory.

- bevel at each pipe end have been inspected for defects by wet magnetical particle, without stratification - satisfactory.

- ultrasonic inspection to verify that the 50 mm wide 2000 at each pipe and is free of such laminer imperfection.

Magnetism residue) check : four readings were taken approximately 90° apart sround the circumference of each end of the pipe. The average of the four readings is ≤ 25 Gs, and no one reading is exceed 30 Gs.

The products was summificulted, sampled, tested, marked and inspected in accordance with the Standards, the supplementary requirements, and any other requirements designated in the purchase order, and has been found to meet such requirements.

29, N. 2018

We make one unit responsibility that the delivered products are in conformity with the order PROGRADOWINE.

Pompular 12A, per o

DOSSIER DE QUALIDADE



Empreitada:

4001008 - "Nuevas Plantas de Poliolefinas, Plataformas Logísticas Y Offsites"

DOCUMENTO Nº:

DATA:

31/01/2025

425 de 2080

FOLHA N°: / DE:

ITEM	DESCRIÇÃO DOCUMENTAL	N° CERTIFICADO	DATA
	MICROESTACAS		
1	DECLARAÇÃO DESEMPENHO TUBO PARA MICROESTACAS Nº38217		19/03/2024
2			

Baia	Verificado	Aprovado	Cliente
Data	Qualidade	Director Obra	Repsol
20/12/2023			





DECLARACIÓN DE PRESTACIONES (MÉTODO 3a-EXC2) / DECLARATION OF PERFORMANCE (Method 3a-EXC2)

Número / No. 38217

1. Código de identificación única del producto tipo / Unique identification code of the product-type:

COMPONENTES DE ACERO ESTRUCTURAL / Steel structural components

2. Tipo, lote o número de serie o cualquier otro elemento que permita la identificación del producto de construcción como se establece en el artículo 11, apartado 4 del Reglamento Nº 305/2011: / Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4) Regulation 305/2011:

ORDEN DE TRABAJO 38217. TUBO PARA MICROPILOTE/ Manufacturing order 38217. Micropile steel pipe

3. Uso o usos previstos del producto de construcción, con arreglo a la especificación técnica armonizada aplicable, tal como lo establece el fabricante: / Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

EN 1090-1:2009+A1:2011. PARA USO ESTRUCTURAL EN TODO TIPO DE OBRAS DE CONSTRUCCIÓN / For structural use in all types of construction works

4. Nombre, nombre o marca registrados y dirección de contacto del fabricante según lo dispuesto en el artículo 11, apartado 5 del Reglamento Nº 305/2011: / Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5) Regulation 305/2011:

COMERCIAL DE SONDEOS, S.L. – AVENIDA DEL LOMO, 2, POLÍGONO INDUSTRIAL DE VALDILECHA, 28511, VALDILECHA, MADRID, ESPAÑA

5. En su caso, nombre y dirección de contacto del representante autorizado cuyo mandato abarca las tareas especificadas en el artículo 12, apartado 2 del Reglamento Nº 305/2011: / Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) Regulation 305/2011:

NO APLICABLE / Not applicable

6. Sistema o sistemas de evaluación y verificación de la constancia de las prestaciones del producto de construcción tal como figura en el anexo V del Reglamento Nº 305/2011: / System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V Regulation 305/2011:

SISTEMA 2+ / System 2+

7. En caso de declaración de prestaciones relativa a un producto de construcción cubierto por una norma armonizada:

Nombre y número de identificación del organismo notificado: OCA INSTITUTO DE CERTIFICACIÓN, S.L.U. (2375) Tarea realizada:

- i) la inspección inicial de la planta de producción y del control de producción en fábrica;
- ii) la vigilancia, evaluación y supervisión permanentes del control de producción en fábrica, por el SISTEMA 2+, emitiendo el certificado de conformidad del control de producción en fábrica 2375/CPR/21/3015

In case of the declaration of performance concerning a construction product covered by a harmonised standard: Name and identification number of the notified body: OCA INSTITUTO DE CERTIFICACIÓN, S.L.U. (2375) Performed:

- (i) initial inspection of the manufacturing plant and of factory production control;
- (ii) continuous surveillance, assessment and evaluation of factory production control, under **System 2+** and issued the certificate of conformity of the factory production control, **No. 2375/CPR/21/3015**





8. En caso de declaración de prestaciones relativa a un producto de construcción para el que se ha emitido una evaluación técnica europea: / In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

NO APLICABLE / Not applicable

9. Prestaciones declaradas / Declared performance

Características esenciales / Essential characterístics	Prestaciones / Performance
Tolerancias dimensionales y de forma / Tolerances on dimensions and shape	EN 1090:2; EN 13920 (Clase C); API 5CT
Soldabilidad / Weldability	Ceq tubo ≤ 3%
Tenacidad a la fractura / Fracture toughness	PND
Capacidad portante / Load bearing capacity	PND
Deformación en el estado límite de servicio / Deformation Serviceability Limit State	PND
Resistencia a la fatiga / Fatigue strength	PND
Resistencia al fuego / Resistance to fire	PND
Reacción frente al fuego / Reaction to fire	A1
Emisión de cadmio / Release of cadmium and its compounds	PND
Emisión de radioactividad / Emission of radioactivity	Cumple
Durabilidad / Durability	PND

10. Las prestaciones del producto identificado en los puntos 1 y 2 son conformes con las prestaciones declaradas en el punto 9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

La presente declaración de prestaciones se emite bajo la sola responsabilidad del fabricante identificado en el punto 4. / This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Firmado por y en nombre del fabricante por:

Signed for and on behalf of the manufacturer by:

Álvaro Torres Vallejo Gerente (*Manager*) K-9310 The second

Valdilecha, a 19 de marzo de 2024

DOSSIER DE QUALIDADE



Empreitada:

4001008 - "Nuevas Plantas de Poliolefinas, Plataformas Logísticas Y Offsites"

DOCUMENTO Nº:

DATA:

31/01/2025

FOLHA N°: / DE: 428 de 2080

1.4.4 MATERIAIS ARMAZÉM REPSOL

ITEM	DESCRIÇÃO DOCUMENTAL	CÓDIGO DATA					
	ARMAZÉM REPSOL						
1	LISTA DE MATERIAIS ENTREGUES						

Data	Verificado	Aprovado	Cliente		
	Qualidade	Director Obra	Repsol		
20/12/2023					



REFERÊNCIA: LMA-08/23 Revisão: 0 Obra: R007

PROJECTO:

EMPRESA SOLICITANTE:

4008 - PROJETO ALBA

Nº VALE	DATA ENTREGA	MATERIAL	DIÂMETRO	UNICODE	PEDIDO	ITEM	UNIDADES	QUANTIDADE DESPACHADA	QUANTIDADE UTILIZADA	TOTAL DEVOLVIDA	OBSERVAÇÕES
0001	24/08/2023	TUBO DN90-HDPE	DN90 - 4"				ROLO	264 ml	264 ml	0 ml	SEGMENTO Ad, Ae - TUBOS COMPRADOS PINTO&CRUZ
0001	24/08/2023	TUBO DN90-HDPE-P	DN90 - 4"				ROLO	264 ml	264 ml	0 ml	SEGMENTO Ad, Ae - TUBOS COMPRADOS PINTO&CRUZ
0002	06/09/2023	TUBOS DN1000-HDPE	DN1000	DN1000-HDPE			7	42 ml	36 ml	6ml	ZONA NORTE - NOVAS UNIDADES - existente a 45º 01SW/ 45º 01SW a SW1
0002	06/09/2023	CODO 45º	DN1000				1	1 ud	1 ud	0 ud	ZONA NORTE - NOVAS UNIDADES
0003	06/09/2023	TUBOS HDPE -315	DN315	DN315-HDPE			5	30 ml	30 ml	0 ml	ZONA ESTE - NOVAS UNIDADES - SWn3-Swn4
0003	06/09/2023	TUBOS HDPE -350	DN350	DN350-HDPE			31	186 ml	186 ml	0 ml	ZONA ESTE - NOVAS UNIDADES -SWe1 - SWe8
0004	27/09/2023	TUBOS CORRUGADOS (SN8) DN200	DN200	GEN/TUB-ACC	4500034776	10	8	48 ml	48 ml	42 ml	ZONA SUL - SSs1/20 to SWs1/9 - NOVAS UNIDADES
0004	27/09/2023	TUBOS ASTM A-53 B TP SMLS - ASME B36,10 Ø SCH 20, L4	DN250	PIPA020B11020			15	90 ml	0 ml	90 ml	AVENIDA 27 - JÁ DEVOLVIDO - VALE 4008-01-0001
0004	27/09/2023	TUBOS ASTM A-53 B TP SMLS - ASME B36,12 Ø SCH 20, L4	DN300	PIPA020B11020			1	6 ml	6 ml	0 ml	AVENIDA 27 - OCW26 - EXISTING MANHOLE
0004	27/09/2023	TUBOS CORRUGADOS (SN8) DN500	DN500	GEN/TUB-ACC	4500034776	70	45	270 ml	270 ml	0 ml	AVENIDA 27 - LINHA SWw1 a SWw6
0005	29/09/2023	TUBOS CORRUGADOS (SN8) DN200	DN200	GEN/TUB-ACC	4500034776	10	6	36 ml	36 ml	0 ml	ZONA NORTE - NOVAS UNIDADES - SSn1-14 /SWn1-
0005	29/09/2023	TUBOS CORRUGADOS (SN8) DN225	DN250	GEN/TUB-ACC	4500034776	20	13	78 ml	78 ml	0 ml	ZONA NORTE - NOVAS UNIDADES - SWn1/SWn3
0005	29/09/2023	TUBOS CORRUGADOS (SN8) DN280	DN315	GEN/TUB-ACC	4500034776	30	5	96 ml	96 ml	0 ml	ZONA NORTE - NOVAS UNIDADES - SWn3-SWn5
0003	2010012020	10000 CONTROUNDOG (CINO) DINZOU	DINGIO	CLIVI OD-ACC	7500004770	30		00 1111	30 1111	O IIII	ZONA NOME NOVAS ONIDADES - SWIIS-SWIIS
0005	29/09/2023	TUBOS CORRUGADOS (SN8) DN355	DN350	GEN/TUB-ACC	4500034776	40	18	108 ml	108 ml	0 ml	ZONA NORTE - NOVAS UNIDADES - SWn5-SW1



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4008 - PROJETO ALBA

Nº VALE	DATA ENTREGA	MATERIAL	DIÂMETRO	UNICODE	PEDIDO	ITEM	UNIDADES	QUANTIDADE DESPACHADA	QUANTIDADE UTILIZADA	TOTAL DEVOLVIDA	OBSERVAÇÕES
0006	02/11/2023	TUBOS CORRUGADOS DN560	DN560	GEN/TUB-ACC	4500034776	80	7	42 ml	42 ml	0 ml	NOVAS UNIDADES - SWs10-SW6
0007	29/01/2024	TUBOS, ASTM A-106 B SMLS, ASME B36,10 Ø6", SCH 40, L-7805	DN150 - 6"	TUBERIA DE CORUÑA			40 ml	40 ml	40 ml	0 ml	MODIFICAÇÃO LINHA CONTRA INCÊNDIOS AVENIDA 27 - LIGAÇÃO HIDRANTES
0007	29/01/2024	CODOS 90°, ASTM A-234 WPB. ASME B16,9. Ø6", SCH40, L-7961	DN150 - 6"	PIPA010B1640			6 ud	6 ud	6 ud	0 ud	MODIFICAÇÃO LINHA CONTRA INCÊNDIOS AVENIDA 27 - LIGAÇÃO HIDRANTES
											THE THE PARTY OF THE TWANTED
8000	29/01/2024	CPEZDESNUDOCU1G70 Cable puesta a tierra, Conductor desnudo, Conductor desnudo, Cobre,		4500034874		POS 10	500 ml	500 ml	0 ml	0 ml	REDE DE TERRAS DE ESFERAS
0008	29/01/2024	MATERIAL DE PUESTA A TIERRA Registro para inspección de picas en puesta a tierra sin		4500034874		POS 80	17 ud	17 ud	0 ud	0 ml	REDE DE TERRAS DE ESFERAS
		MATERIAL DE DUECTA A TIERRA Electrodo de									
8000	29/01/2024	MATERIAL DE PUESTA A TIERRA Electrodo de acero-cobre de alta resistencia, diámetro mínimo		4500034874		POS 70	17 ud	17 ud	0 ud	0 ml	REDE DE TERRAS DE ESFERAS
		MATERIAL DE PUESTA A TIERRA Grapa tipo									
8000	29/01/2024	petaca unión de dos cables con pica de tierra,		4500034874		POS 90	25 ud	25 ud	0 ud	0 ml	REDE DE TERRAS DE ESFERAS
0009	28/02/2024	Flange 6" 150 para proteção contra incêndio ASTM galvanizado PN16					6 ud	6 ud	6 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0010	12/03/2024	TUBO ASTM A53 B TP S SMLS ASME B36,10, Ø12, SCH20, L4	DN300	PIPA020B11020			36 ml	36 ml	0 ml	36 ml	AVENIDA 27 - LINHA OCW - JÁ DEVOLVIDO - VALE DEVOLUÇÃO 4008-01-0001
											ZONA CHI NOVACHNIDADEC CECNENTOCA: A:
0011	14/03/2024	TUBOS PEAD (SN8) DN560	DN560				100 ml	100 ml	100 ml	0 ml	ZONA SUL - NOVAS UNIDADES - SEGMENTOS Ai, Aj, Ah - SWs7-SWs7
											ZONA SUL - NOVAS UNIDADES - SEGMENTOS Ai, Aj,
0011	14/03/2024	TUBOS PEAD (SN8) DN450	DN450				136 ml	136 ml	136 ml	0 ml	Ah - SWe8- SWs7
		CURVAS DE 90° DN500 SDR11/PN16 HDPE									â
0012	02/04/2024	100 (ELBOW)					6 ud	6 ud	6 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0012	02/04/2024	PORTA BRIDAS DN 500 SDR11/PN16					2 ud	2 ud	2 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
		HDPE100 (STUB END)									



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Nº VALE	DATA ENTREGA	MATERIAL	DIÂMETRO	UNICODE	PEDIDO	ITEM	UNIDADES	QUANTIDADE DESPACHADA	QUANTIDADE UTILIZADA	TOTAL DEVOLVIDA	OBSERVAÇÕES
		FLANGES LOUCAS 20" 150 lb (LOOSE									
0012	02/04/2024	BACKING FLANGE)					2 ud	2 ud	2 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0012	02/04/2024	T LADOS IGUAIS DN 500 SDR11/PN16 HDPE100 (EQUAL TEE)					1 ud	1 ud	1 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0012	02/04/2024	VARAS DE TUBO - DN 500 SDR11/PN16 HDPE	DN500				6 ud	6 ud	72 ml	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
		100									
0040	45/04/0004	Cable puesta a tierra, Conductor desnudo,,		45000074		40	540 ml	540	0.01	01	DEDE DE TERRAS, AVENURA 27
0013	15/04/2024	Cobre, 1 Cond. Tierra (A/V), 70 mm2 Cable de		450003874		10	510 ml	510 ml	0 ml	0 ml	REDE DE TERRAS - AVENIDA 27
		Outlement of the Outlete in the Office									
0013	15/04/2024	Cable puesta a tierra, Conductor isolado, 35 mm2 (DERIVED EARTHING GRID SECTION 35 mm2)		450003874		20	189 ml	189 ml	0 ml	0 ml	REDE DE TERRAS - AVENIDA 27
0013	15/04/2024	Embarrado de conexion de 60X6X475 mm,incluyendo 6 grapas para cable de 35 -95		450003874		100	2 ud	2 ud	0 ml	0 ml	REDE DE TERRAS - AVENIDA 27
		on a series of the series of t									
0013	15/04/2024	Registro para inspección de picas en puesta a		450003874		80	2 ud	2 ud	0 ml	0 ml	REDE DE TERRAS - AVENIDA 27
		tierra sin fondo. Fabricada en poliéster, com tapa									
0040	45/04/0004	Grapa para fijación de cable 35 mm2 a		45000074		20	224	204	0	01	DEDE DE TERRAS, AVENURA 27
0013	15/04/2024	estructura o equipo		450003874		30	32 ud	32 ud	0 ml	0 ml	REDE DE TERRAS - AVENIDA 27
		Conna nam filosión de ceble 25 mm2 e									
0013	15/04/2024	Grapa para fijación de cable 35 mm2 a estructura o equipo		450003874		40	32 ud	32 ud	0 ml	0 ml	REDE DE TERRAS - AVENIDA 27
0013	15/04/2024	Puente de prueba de pletina de cobre, fijácion de condutores de tierra mediante soldadura		450003874		50	3 ud	3 ud	0 ml	0 ml	REDE DE TERRAS - AVENIDA 27
0014	14/03/2024	Juntas de 150 libras					12 ud	12 ud	12 ud	0 ml	ZONA SUL - NOVAS UNIDADES - SEGMENTOS Ai, Aj,
											Ah
0044	4.4/00/0004	Farancia de Prido de 200					00 1	00 1	001	0 ml	ZONA SUL - NOVAS UNIDADES - SEGMENTOS Ai, Aj,
0014	14/03/2024	Esparragos para Bridas de 3/4					96 ud	96 ud	96 ud	0 ml	Ah
0015	22/04/2024	TUBOS POLIETILENO - HDPE - DN350	DN350				3 ud	18 ml	18 ml	0 ml	ZONA ESTE - SWe7 + SWe8
0015	22/04/2024	TUBOS POLIETILENO - DN500 SDR11/PN16 HDPE	DN500				2 ud	12 ml	12 ml	0 ml	- ZONA SUL - NOVAS UNIDADES - SEGMENTOS, Ah - SWw6-SW5



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4008 - PROJETO ALBA

Nº VALE	DATA ENTREGA	MATERIAL	DIÂMETRO	UNICODE	PEDIDO	ITEM	UNIDADES	QUANTIDADE DESPACHADA	QUANTIDADE UTILIZADA	TOTAL DEVOLVIDA	OBSERVAÇÕES
0016	29/04/2024	TUBO POLIETILENO - DN400 HDPE	DN400				2 ud	12 ml	12 ml	0 ml	ZONA SUL - CAIXA SWs7 TO OTHERS (TECNINONT)
0017	13/05/2024	CURVAS 90° DN 500 SDR11 PN16		MF3P0G1226FI230	4500035594	250	5 ud	5 ud	5 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	45425	VARAS DE TUBO - DN500 SDR11/PN16 HDPE	DN500	PPBP0R126FD30			2 ud	24 ml	24 ml	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	PORTA BRIDAS DN500 SDR11 PN16		FLBG500CFl3500X20	4500035809	50 60 70 80 90	1 ud	1 ud	1 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	REDUÇÃO DN500/DN355 SDR11 PN16		MP8P0G1426Fl23027	4500035594	380	1 ud	1 ud	1 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	REDUÇÃO DN355/DN250 SDR11 PN16		MF8P0G1426Fl22724			1 ud	1 ud	1 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	PORTA BRIDAS DN250 SDR11 PN16		MF1P0G1126FI124			2 ud	2 ud	2 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	FLANGES LOUCAS 10" - 150 libra		FLBG500CFl3250X10	4500035809	10 20 30 40	2 ud	2 ud	2 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	VALVULA 20" - 150 libra		G2DN500L-G202	4500035333	260	1 ud	1 ud	1 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	VALVULA 10" - 150 libra		G2DN500L-G202	4500034705	190	1 ud	1 ud	1 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	JUNTAS DE CARTÃO 3 mm x 500 DN mm		GFRS101AFF500X20			4 ud	4 ud	4 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	JUNTAS DE CARTÃO 3 mm x 250 DN mm		GFRS101AFF250X10			2	2	2	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	curvas 45° - DN250 mm SDR11 PN16		MF2P0G1226FI224			2	2	2	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27



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4008 - PROJETO ALBA

Nº VALE	DATA ENTREGA	MATERIAL	DIÂMETRO	UNICODE	PEDIDO	ITEM	UNIDADES	QUANTIDADE DESPACHADA	QUANTIDADE UTILIZADA	TOTAL DEVOLVIDA	OBSERVAÇÕES
0017	13/05/2024	curvas 90° - DN250 mm SDR11 PN16		MF2P0G1226FI224			2	2	2	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	VARAS TUBO PEAD DN250 SDR11 PN16	DN250	PPBP0R126FD24	4500035594	40	4	24 ml	24 ml	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	PERNOS 1"1/8 com 250 mm de comprimento					80	80	80	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0017	13/05/2024	PERNOS 7/8 com 180 mm de comprimento					24	24	24	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0018	15/05/2024	TUBOS CORRUGADOS SW - DN500	DN500				6	36 ml	36 ml	0 ml	AVENIDA 26 - SWw6 - SW5
0019	15/05/2024	ANILHAS DE CHAPA PARA PERNOS 1"1/8					160 ud	160 ud	160 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0019	15/05/2024	ANILHAS DE CHAPA PARA PERNOS 7/8					160 ud	160ud	160 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0020	21/05/2024	TUBOS ASTM A53 B TP S SMLS - ASME B36.10 Ø10", SCH20, L4 - REVESTIDOS	DN250				8 ud	90 ml	90 ml	0 ml	AVENIDA 26/27 - LINHA DE PERÓXIDOS - OTHERS to OCW25
0020	21/05/2024	TUBOS ASTM A53 B TP S SMLS - ASME	DN350				3 ud	35 ml	35 ml	0 ml	AVENIDA 26/27 - LINHA DE PERÓXIDOS - OCW25 to
0020	21/03/2024	B36.10 Ø14", SCH20, L4 - REVESTIDOS	DNOSO				3 dd	33 1111	33 1111	O IIII	OCW26
0021	12/06/2024	Junta no metálica, C.S.F (Fibra sintética comprimida resistente al petróleo), Entre bridas		NMGQ001R1FB6			7 ud	7 ud	7 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
		comprimida resistente ai petroleo), Entre bridas									
0021	12/06/2024	Junta no metálica, C.S.F (Fibra sintética comprimida resistente al petróleo), Entre bridas de		NMGQ001R1FB10			1 ud	1 ud	1 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
		comprimina roototorito ai perioleoj, entre situas de									
0021	12/06/2024	Anilhas de chapa de furo 1" 1/8 - (ou 35 mm)					80 ud	80 ud	80 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0021	12/06/2024	Anilhas de chapa de furo 7/8" - (ou 25 mm)					48 ud	48 ud	48 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
0021	12/06/2024	Espárrago y dos tuercas hexagonales pesadas, ASTM A-193 Gr B7 / ASTM A 194 Gr 2H, ASME		SB2R051G3/45			56 ud	56 ud	56 ud	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27



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PROJECTO:

EMPRESA SOLICITANTE:

4008 - PROJETO ALBA

Nº VALE	DATA ENTREGA	MATERIAL	DIÂMETRO	UNICODE	PEDIDO	ITEM	UNIDADES	QUANTIDADE DESPACHADA	QUANTIDADE UTILIZADA	TOTAL DEVOLVIDA	OBSERVAÇÕES
0022	03/09/2024	Vent Type 2- oil drainage Sytem with Hydraulic Seal- as per detail drawing 00-000-8-05-01504		Incluido no conjunto do Vent Type 2		10	7 ud	7 ud	7 ud	0 ml	VENTS TYPE 2
0022	03/09/2024	M16 x54mm Hexagonal Head Bolts- for type 2 vents		Incluido no conjunto do Vent Type 2			56 ud	56 ud	56 ud	0 ml	VENTS TYPE 2
0022	03/09/2024	Spirometal Gasket 174-114 (3mm)- For Type 2 vents		Incluido no conjunto do Vent Type 2			14 ud	14 ud	14 ud	0 ml	VENTS TYPE 2
0022	03/09/2024	TUBOS ASTM A-106 B SMLS - ASME B36,10 Ø4" SCH40, L7805	DN100 - 4"	PIPA010B1440	4500034667	90	3 ud	34 ml	34 ml	0 ml	VENTS TYPE 1 (PARA FABRICO)
0022	03/09/2024	TUBOS ASTM A-106 B SMLS - ASME B36,10 Ø4" SCH40, L7805 - GR.B (POLIKEN) DN4 L-	DN100 - 4"	PIPA010B1440	4500034667	530	2 ud	20 ml	20 ml	0 ml	VENTS TYPE 1 (PARA FABRICO)
0022	03/09/2024	CODO DE 90° Y RADIO LARGO ASTM-A-234- WPB, ASME B16.9 4", SCH40, L-7961		90LA200F3440	4500034667	240	18 ud	18 ud	18 ud	0 ml	VENTS TYPE 1 (PARA FABRICO)
0023	19/08/2024	TUBOS AST A-53 B TP S SMLS - ASME B36,10 Ø14", SCH-20, L4	DN350	TUBERIA DE CORUÑA			2	24 ml	24 ml	0 ml	LIGAÇÃO CAIXAS OCW27 A OCW8
		M40 54 H H H H H K K A A									
0024	16/09/2024	M16 x54mm Hexagonal Head Bolts- for type 2 vents		Incluido no conjunto do Vent Type 2			112 ud	112 ud	112 ud	0 ml	VENTS TYPE 2
0025	25/09/2024	TUBO DE POLIETILENO - DRENAJE - HDPE - DN400 (SW2/SW4 para OTHERS)	DN400				8 ud	48 ml	?	0 ml	LINHA SW - SEGMENTO Ad/AE - (OTHERS para SW2 + OTHERS para SW4)
	RESUMO	COMPRAS EXTERIOR									
		Tubo Cambidur PP SN8 (vara c/6,2) 250 mm	DN250					99,2 ml			COMPRADO A PINTO&CRUZ
		Tubo Cambidur PP SN8 (vara c/6,2) 250 mm	DN250					174 ml			COMPRADO A PINTO&CRUZ
		TUBO PEAD MRS 100 PN16 ROLO 50MT 110 MM	DN100					550 ml			COMPRADO A PINTO&CRUZ - 11 ROLOS 50 ml
		Tubo Cambidur PP SN8 (vara c/6,2) 250 mm	DN250					24,8 ml			COMPRADO A PINTO&CRUZ



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Nº VALE	DATA ENTREGA	MATERIAL	DIÂMETRO	UNICODE	PEDIDO	ITEM	UNIDADES	QUANTIDADE DESPACHADA	QUANTIDADE UTILIZADA	TOTAL DEVOLVIDA	OBSERVAÇÕES
		TubFM PE 100 SDR 11d 90	DN100					48 ml			COMPRADO A PINTO&CRUZ
	RESUMO	TUBOS AÇO CARBONO									
		TUBOS ASTM A-106 B SMLS - ASME B36,10 Ø4" SCH40, L7805	DN100 - 4"	PIPA010B1440	4500034667	0090	3 ud	34 ml	34 ml	0 ml	VENTS TYPE 1 (PARA FABRICO)
		TUBOS ASTM A-106 B SMLS - ASME B36,10 Ø4" SCH40, L7805 - GR.B (POLIKEN) DN4 L-	DN100 - 4"	PIPA010B1440	4500034667	0530	2 ud	20 ml	20 ml	0 ml	VENTS TYPE 1 (PARA FABRICO)
		TUBOS, ASTM A-106 B SMLS, ASME B36,10	DN150 - 6"	TUBERIA DE CORUÑA			7 ud	40 ml	40 ml	0 ml	MODIFICAÇÃO LINHA CONTRA INCÊNDIOS AVENIDA 27 - LIGAÇÃO HIDRANTES
		Ø6", SCH 40, L-7805 TUBOS ASTM A53 B TP S SMLS - ASME	DN250 10"	TUBERIA DE	_		8 ud	90 ml	90 ml	0 ml	AVENIDA 26/27 - LINHA DE PERÓXIDOS -
		B36.10 Ø10", SCH20, L4 - REVESTIDOS TUBOS ASTM A-53 B TP SMLS - ASME B36,12	DN300 12"	CORUÑA PIPA020B11020			1 ud	6 ml	6 ml	0 ml	OTHERS to OCW25 AVENIDA 27 - OCW26 - EXISTING MANHOLE
		Ø SCH 20, L4 TUBOS ASTM A53 B TP S SMLS - ASME	DN350 14"	TUBERIA DE			5 ud	60 ml	39 ml	21 ml	AVENIDA 26/27 - LINHA DE PERÓXIDOS - OCW25
		B36.10 Ø14", SCH20, L4 - REVESTIDOS +		CORUÑA	_			TOTAL:	250 ml		to OCW26 + LIGAÇÃO CAIXAS OCW27 A OCW8
	RESUMO	TUBOS CORRUGADOS									
		TUBOS CORRUGADOS (SN8) DN200	DN200	GEN/TUB-ACC	4500034776	10	8+6	84 ml	42 ml	42 ml	ZONA NORTE - NOVAS UNIDADES - SSn1-14 /SWn1-
		TUBOS CORRUGADOS (SN8) DN225	DN250	GEN/TUB-ACC	4500034776	20	13 ud	78 ml	78 ml	0 ml	7 ZONA NORTE - NOVAS UNIDADES - SWn1/SWn3
		TUBO CAMBIDUR PP SN8 (VARA c/6,2) 250 mm	DN250				50 ud	298 ml	270 ml	30 ml	AVENIDA 26 - LINHA SANITÁRIOS - OTHERS-SD6 COMPRADO A PINTO&CRUZ
		TUBOS CORRUGADOS (SN8) DN280	DN315	GEN/TUB-ACC	4500034776	30	16 ud	96 ml	96 ml	0 ml	ZONA NORTE - NOVAS UNIDADES - SWn3-SWn5
		TUBOS CORRUGADOS HDPE -315	DN315	DN315-HDPE			5 ud	30 ml	30 ml	0 ml	ZONA ESTE - NOVAS UNIDADES - SWn3-Swn4
		TUBOS CORRUGADOS HDPE -350	DN350	DN350-HDPE			31 ud	186 ml	186 ml	0 ml	ZONA ESTE - NOVAS UNIDADES -SWe1 - SWe7
		TUBOS POLIETILENO - HDPE - DN350	DN350				3 ud	18 ml	18 ml	0 ml	ZONA ESTE - SWe7 + SWe8
		TUBOS CORRUGADOS (SN8) DN355	DN350	GEN/TUB-ACC	4500034776	40	18 ud	108 ml	108 ml	0 ml	ZONA NORTE - NOVAS UNIDADES - SWn5-SW1
		TUBO POLIETILENO - DN400 HDPE	DN400				2+8 ud	60 ml	60 ml	0 ml	ZONA SUL - CAIXA SWs7 TO OTHERS (TECNINONT)
		TUBOS CORRUGADOS PEAD (SN8) DN450	DN450				23 ud	136 ml	136 ml	0 ml	ZONA SUL - NOVAS UNIDADES - SEGMENTOS Ai, Aj, Ah - SWe8- SWs7
		TUBOS CORRUGADOS (SN8) DN500	DN500	GEN/TUB-ACC	4500034776	70	45 ud	270 ml	270 ml	0 ml	AVENIDA 27 - LINHA SWw1 a SWw6
		TUBOS CORRUGADOS SW - DN500	DN500				6 ud	36 ml	36 ml	0 ml	AVENIDA 26 - SWw6 - SW5
		TUBOS CORRUGADOS - DN500 SDR11/PN16 HDPE	DN500				2 ud	12 ml	12 ml	0 ml	- ZONA SUL - NOVAS UNIDADES - SEGMENTOS, Ah - SWw6-SW5
		TUBOS CORRUGADOS SW - DN500	DN500				6 ud	36 ml	36 ml	0 ml	AVENIDA 26 - SWw6 - SW5
		TUBOS PEAD (SN8) DN560	DN560				17 ud	100 ml	100 ml	0 ml	ZONA SUL - NOVAS UNIDADES - SEGMENTOS Ai, Aj, Ah - SWs7-SWs7



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		TUBOS CORRUGADOS DN560	DN560	GEN/TUB-ACC	4500034776	80	7 ud	42 ml	42 ml	0 ml	NOVAS UNIDADES - SWs10-SW6
	06/09/2023	TUBOS DN1000-HDPE	DN1000	DN1000-HDPE			7ud	42 ml	36 ml	6ml	ZONA NORTE - NOVAS UNIDADES - existente a 45º 01SW/ 45º 01SW a SW1
								TOTAL:	1286 ml + 298 ml comprados		013W/ 43- 013W a 3W1
	RESUMO	TUBOS REDE DE INCÊNDIOS									
	02/04/2024	VARAS DE TUBO - DN 500 SDR11/PN16 HDPE 100	DN500				6 ud	6 ud	72 ml	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
	45425	VARAS DE TUBO - DN500 SDR11/PN16 HDPE	DN500	PPBP0R126FD30			2 ud	24 ml	24 ml	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
	13/05/2024	VARAS TUBO PEAD DN250 SDR11 PN16	DN250	PPBP0R126FD24	4500035594	40	4 ud	24 ml	24 ml	0 ml	REDE DE CONTRA - INCÊNDIOS AVENIDA 27
								TOTAL:	120 ml		
	RESUMO	TUBOS REDE - RAW WATER									
	24/08/2023	TUBO DN100-HDPE - ÁGUA NORMAL	DN100		ANULADO		ROLO	264 ml	264 ml	0 ml	SEGMENTO Ad, Ae - TUBOS COMPRADOS PINTO&CRUZ
	24/08/2023	TUBO DN100-HDPE-P - ÁGUA POTÁVEL	DN100		ANULADO		ROLO	264 ml	264 ml	0 ml	SEGMENTO Ad, Ae - TUBOS COMPRADOS PINTO&CRUZ
	23/08/2023	TUBO PEAD MRS 100 PN16 ROLO 50MT 110 MM	DN100		COMPRADO		ROLO	550 ml	517 ml	33 ml	LINHA 4RW 220016 - AGUA NORMAL/POTÁVEL COMPRADO A PINTO&CRUZ - 11 ROLOS 50 ml