OFFICINE SASPE S.R.L.

Via Senato, 10 20020 ARESE (MI) Date: 26.11.10

Doc. N° Cover 62F6B

INSPECTION BOOK N° 62F6B

WORKSHOP JOB N°: 1E35

CUSTOMER: BALLESTRA S.p.A. Milano

JOB : 1E35

ORDER N°. : 101723

Item: 62F6B

Description: SLURRY FEEDING FILTER

OFFICINE SASPE S.R.L. E.Accomazzi

OFFICINE SASPE S.R.L. Via Senato, 10 20020 ARESE (MI) Date: 26.11.10

Doc. No.:: 62F6B

WHITE PICKLING REPORT

(For apparatus in Stainless steel with parts in Carbon steel)

QUALITY CONTROL PLAN No.: 62F6B

Customer	BALLESTRA S.P.A.
Customer Order No.	101723
Job	1E35
Item	62F6B
Description	SLURRY FEEDING FILTER
Data sheet	1E35.35.1141
Constructive Dwg.	SB.PRS.00307

Il decapaggio esterno è stato eseguito in accordo alla specifica Ballestra No SB_ATI_SP002/4 utilizzando pasta decapante DECABLITZ DR5 per un' ora e risciacquando accuratamente con acqua potabile.

The external white pickling treatment has been performed, according to the Ballestra's specification No. SB_ATI_SP002/4 with paste DECABLITZ DR5 for one hour and thoroughly rinsed with water of drinking quality.

Il ciclo di verniciatura su superfici esterne è stato eseguito in accordo alla specifica Ballestra No. SB_ATI_SP002/4 utilizzando antiruggine COSMALVER TIPO BW0136

The exernal painting cycle has been performed, according to the Ballestra's specification No. SB_ATI_SP002/4 with antirust COSMALVER TYPE 0136

Le parti interne sono state pulite per mezzo di solvente EMULCLEAR M.

The internal parts have been cleaned by means of solvent EMULCLEAR M.

OFFICINE SASPE S.R.L. - ARESE (MI)

CUSTOMER INSPECTOR

Integral S.p.A.
Integration
Caral Cavide

Date: 26.11.10

OFFICINE SASPE S.R.L. Via Senato, 10 20020 ARESE (MI) Doc. No. : 62F6B

HYDROSTATIC TEST REPORT

Customer	BALLESTRA S.P.A.
Customer Order No.	101723
Job	1E35
Item	62F6B
Description	SLURRY FEEDING FILTER
Data sheet	1E35.35.1141
Constructive Dwg.	SB.PRS.00307

Pressure (alte	ernatively) c	on:	TIME HELD (hours)
SHELL SIDE	bar(g)	1,5	. 1
TUBE SIDE	bar(g)		
JACKET	bar(g)	1,5	1
COIL	bar(g)		1

Pressure gauges serial N° EN 850 - EN 730 Dial range : 0 - 6 0 - 6

Vessel position: HORIZONTAL

Dichiariamo che la prova idraulica è stata eseguita utilizzando acqua potabile alle pressioni e tempi indicati in tabella ed ha avuto esito positivo.

We certify that the hydrostatic test with water of drinking quality has been performed, at the conditions and times above indicated, with satisfactory result.

OFFICINE SASPE S.R.L.-ARESE (MI)

CUSTOMER INSPECTOR

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only jecket

OFFICINE SASPE S.R.L.

Via Senato, 10 20020 ARESE (MI)

Workshop Job n° 1E35 N°. C0 495/10

CERTIFICATO CONTROLLO DIMENSIONALE

DIMENSIONAL TEST REPORT

CUSTOMER: BALLESTRA S.p. A.

JOB Nº 1E35

Purchase Order N°. 101723

Doc. N°. Sheet 1 of 1 Rev. 0

ITEM:	62F6B		
Description : DATA SHEET N°.		SLURRY FEEDING FILTER 1E35.35.1141	
Constructive Dwg. N°.	SB.PRS.00307		

SI CERTIFICA CHE L' APPARECCHIO E' STATO SOTTOPOSTO A CONTROLLO DIMÉNSIONALÉ IN ACCORDO AI DISÉGNI :

BALLESTRA S.p.A.: DATA SHEET N° 1E35.35.1141 BALLESTRA S.p.A.: COSTRUTTIVO N° SB.PRS.00307

ED ALLE SPECIFICHE RICHIAMATE SUGLI STESSI

TUTTE LE MISURAZIONI EFFETTUATE SONO CONFORMI ALLE TOLLERANZE INDICATE A DISEGNO ED ALLE SPECIFICHE IN ESSI RICHIAMATE. E' STATO ESEGUITO CONTROLLO SPESSORI

WE CERTIFY THAT THE ITEM HAS BEEN CONTROLLED DIMENSIONALLY ACCORDING TO DRAWINGS:

Nº 1E35.35.1141 BALLESTRA S.p.A. : DATA SHEET BALLESTRA S.p.A.: CONSTRUCTIVE Nº SB.PRS.00307

> AND TO THE SPECIFICATIONS NOTED IN THE ABOVE MENTIONED DRAWINGS.

ALL THE MEASUREMENTS PERFORMED RESULT WITHIN **DRAWINGS TOLERANCES** AND TO THE SPECIFICATIONS NOTED IN THE ABOVE MENTIONED DRAWINGS. THICKNESS CHECK HAS BEEN PERFORMED

Davide

to 22/1/to

RISULTATO / Result: SODDISFACENTE / Satisfactory

							100
1			E.Accomazzi				
0		26.11.10	Off.Saspe SrL				
Rev.	Issued by	Date	Checked by	Date	Approved by	Date	Description
REV.	Emesso da	Data	Controllato da	Data	Approvato da	Data	Descrizione

OVER

10.11.2007 07.11.2007

Del Del Del

CERTIFICATO DI COLLAUDO SECONDO EN 10204 - 3.1

COMPANY WITH QUALITY MANAGEMENT SYSTEM CERTIFIED BY BY BI ISO 9001:2000

Flanges & Fittings Italia s.p.A.

nenta

FERRAMENTA INDUSTRIALE BONACINA SRL V.LE EUROPA 2G 24048 CURNASCO DI TREVIOLO

BG

Questo documento certifica che i raccordi sottocitati sono fabbricati in accordo con l'ultima normativa applicabile: ASME/ANSI MSS-SP I risultati delle analisi chimiche e prove meccaniche sono una copia conforme all'originale dei certificati emessi dal produttore e/o fornitc

DDT N. 3118 Ns. Ord. N. Certificato n. 2921 Fattura N.

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手打式t. dl distensione 3=Normalizzato 4=Normalizzato e rinvenuto 5=Temprato e rinvenuto 6=Solubilizzato 7=Vedi descrizione (") 1=Prodotto a caldo tra 620 = 980

DELIA CONTROL

COLLAUDO ESTERNO

ROLLED BAR ANSI BI The material is conformater and A193/A193M-0 Mechanical Properties Required Actual	onforming to the M-07 B7-ASME R Mpa rived MIN 860 al 1005 al .450	ROLLED BAR ANSI B1.1 A/SA 193 B7 5/8"-11UNCX1000 Qty 20 The material is conforming to the following specifications: ASTM A193/A193M-07 B7-ASME II PART "A" ED.2007 SA 193 B7 Mechanical R Mpa Rs 0.2 Mpa A% Properties Required MIN 860 MIN 720 MIN 16 Actual 1005 860 17.8 Properties Actual .450 .820 .210 VISUAL AND DIMENSIONAL TEST:SATISFACTORY.WE STATE THAT THE BOLTING MATERIA	(1000 Qty 20 Heat tre fications: 2007 SA 193 B7 A%	Order FAX Item catment QUEN						
he material is co 1STM A193/A193/ Aechanical roperties Requi Actuc	informing to the M-07 B7-ASME R Mpa ired MIN 860 al 1005 al 450	he following specif EII PART "A" ED. 3 Rs O.2 Mpa O MIN 720 860 Mn .820 TORY. WE STATE THAT TH	ications: 2007 SA 193 B7 A%		FAX JENCHED AI	Order FAX Date 27/04/10 20 Item Heat treatment QUENCHED AND TEMPERED 593°C	4/10 ED 593°C	Heat AR4760	LOT 1090557	RDC 815849
*	R Mpa ired MIN 860 al 1005 al 450	Rs 0.2 Mpq 0 MIN 720 860 Mn .820 .820	A% A4TN 12	•						
	ired MIN 860 al 1005 C al 450	0 MIN 720 860 Mn .820 1089. WE STATE THAT TH	MATERIAL	%2	#	HB 24h	Impact test	test Temn %	Proof	Proof Load Impact test
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35	Jal test:satisfact Quirements or oth	HER REQUIREMENTS DES	HE BOLTING MATERI, IGNATED IN THE PU	.UUG AL WERE MANU RCHASE ORDER	.U.C.D. UFACTURED, SAM R OR CONTACT A	.y/U MPLED, TESTED AN AND WAS FOUND T	ND INSPECTED TO MEET THO	J ID IN <i>ACCO</i> RDAN DSE REQUIREME!	KE WITH THE SPE NTS.	CIFICATION AND
EAVY HEX NUT	h=b ANSI B18.	HEAVY HEX NUT h=D ANSI B18.2.2 Tab 9 A/SA 194 21	94 2H 5/8"-11UNC Qty 350		Order FAX Item	Date 2	Date 27/04/10	Heat LOT 613171 1089	LOT 1089999	RDC 819093
he material is co STM A194/A194-	informing to th -07a GR.2H-AS	Heat treatment QUENCHED AND TEMPERED 45 The material is conforming to the following specifications: ASTM A194/A194-07a GR.2H-ASME II PART "A" ED.2007 SA 194 2H-ASME VIII Div 2 ED2007 Art.M-5	Heat tre ications: D.2007 SA 194	atment QU	JENCHED AI	Heat treatment QUENCHED AND TEMPERED 455°C ns:)7 SA 194 2H-ASME VIII Div 2 ED2007 Art.M-5	ED 455°C 1.M-5			
Mechanical	R Mpa	Rs 0.2 Mpa	%4	%7	里	HB 24h	HB 24h Impact test		Proof	Impact test
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Chemical	U	An	Si	۵.		ڻ Z	W	>	i i	8
Properties Actual VISUAL AND DIMENSIONAL ANY SUPPLEMENTARY REQU	AL TEST:SATISFACTI	Properties Actual .470 .320 .310 .013 .029 VISUAL AND DIMENSIONAL TEST:SATISFACTORY WE STATE THAT THE BOLTING MATERIAL WERE MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND ANY SUPPLEMENTARY REQUIREMENTS OR OTHER REQUIREMENTS DESIGNATED IN THE PIRCHASE ORDER OR CONTACT AND WAS FOLKED TO LEST THOSE DESIGNATED.	.310 HE BOLTING MATERIX IGNATED IN THE PUR	.013 AL WERE MANU RCHASE ORDER	.029 JFACTURED, SAM	10013029 TING MATERIAL WERE MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE VED IN THE PURCHASE ORDER OR CONTACT AND WAS FOUND TO HEET THOSE DECUMENTS	ND INSPECTE	D IN ACCORDAN	ICE WITH THE SPE	

Quality Control ofpartement bulloneria Trevi srl

TEST CERTIFICATE 3.1

Via Repubblica 1 25065 Lumezzane Brescia tel. 030872934

AELLEBI SRL

Certificato di analisi chimica e prove meccaniche

3.1 - en - 10204:2004

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Nr Certificato/Certificate	2258 del 29/09/2010	Analisi meccaniche / mechanical test	Pb% R-N/mm2 S-N/mm2 A% C% HB TT	,000 400 215 24 165 N	,000 452 251 45 27 139 S	,000 441 242 46 28 131 S	,000 465 264 45 26 145 s	,000 5001 2601 58 27 150 s	,000 553 1346 128 45 150 S	,000 400 215 24 165 N	,000 497 255 29 37 165 N
DDT/INVOICE	2258 del 29/09/2010 ,	Analisi chimiche / chemical analisys	P% S% Ni% Cr% Mo% Ti% AI% V% Cu% N% Nb% Ce%	,016 0,027 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	016 0,315 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	000,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,016 0,015 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,018 0,010 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	,015 0,016 0,120 0,010 0,027 0,000 0,000 0,000 0,080 0,000 0,000 0,314 0,000	,016 0,027 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	,023 0,017 0,005 0,010 0,067 0,000 0,000 0,011 0,005 0,000 0,000 0,000 0,000
	NA SRL		C% Mn% Si%	0,130 0,470 0,190 0,016 0,027 0,000	0,170 0,580 0,210 0,016 0,015 0,000	0,140 0,450 0,230 0,017 0,020 0,000	0,170 0,780 0,220 0,016 0,015 0,000	0,180 1,150 0,300 0,018 0,010 0,000	0,180 0,790 0,240 0,015 0,016 0,120	0,130 0,470 0,190 0,016 0,027 0,000	0,170 0,610 0,230 0,023 0,017 0,005
Cliente/Customer	FERRAMENTA INDUSTRIALE BONACINA SRL VIALE EUROPA 2/G 24048 (FRA.CURNASCO) TREVIOLO		y Descrizione	20 FLANGIA UNI 2278 DN 125 STR	1 FLANGIA UNI 2276 DN 250	10 FLANGIA UNI 6093 DN	10 FLANGIA UNI 6093 DN 20	15 FLANGIA UNI 6093 DN 25	6 FLANGIA UNI 6093 DN 32	15 FLANGIA UNI 6093 DN 40 SJR	1 FLANGIA UNI 2276 DN 400
	FERR, VIAL) 2404		Colata Qty	2-15545	1617	1072	9612	100311	7846	2-15545	08K68716

0727710162 1.035-201268 Viale Europa, 20 - //-Tel. 035-201265 - /-Cod. Fisc. e P. 194 do

Ferramental Incuenties Bondon Silva Santini

Specifiche: A 105/a 105m - 01 - S235JR

Materiale conforme all'ordine ed alle specifiche

Controllo visivo e dimensionale positivo

Ufficio controllo qualità AELLEBI SRL





DIR.UFF.DEP.: Z.L.CIMAFAVA 29013 CARPANETO (PC) ITALY TEL 0523-859043/TELEFAX 0523-850763 E-MAIL: comtubi @ comunicom CF-P.IVA/VAT CODE IT 00275990331 MECC.PC. 006303 R.E.A. N.95436-ISER.REG.IMP.PC N.4191

No.

257/08

DATA

ATTESTATO DI CONFORMITA' EN 10204/2.1

CERTIFICATE OF COMPLIACE EN 10204/2.1 ATTESTATION DE CONFORMITE EN 10204/2.1

30.04.08

CLIENTE / Customer / Client

SPETT.LE JANNONE FERRO TUBI SPA SEGRATE (MI)

ORD, CLIENTE / Castomer's order/ Commande du Client

NR. 08/642 DEL 23/04/2008 -NR, 08/654 DEL 24/04/2008 -

NR. 08/661 DEL 24/04/2008 -

NR. 08/660 DEL 24/04/2008 -

NR. 08/668 DEL 28/04/2008 -

GALVANIZED STEEL TUBES

NORMA - ACCIAIU / Specification - Steel / Specification Accer

ESECUZIONE / Execution & Execution

X

API 5L - ASTM A106 GR.B

SPNZA SALD / Samiless / Sans soudure SALDATO / Welded / Soude

Pas. Item Pos.	DIMENSIONI Dimensiona Dimensiona	QUANTITA' Quantity Quantité	PRODUTTORE Mondaction of Production	CERTIFICATO DI FABS. Mili usi centificate Certificat d'usine	CODE
,	1.1/4" X 3,56	MT. 12,00	ZELEZ - H.71357	14511/1/2007	•
2	3/4" X 2,87	MT. 12,00	ZELEZ - H.71427	14752/1/2007	
2	1/2" X 2,77	MT. 18,00	ZELEZ - H.50359	3339/1/2005	,
1	3/4" X 3,91	MT.150,00	ZELEZ - H.61902	16110/1/2006	41.1
1	1.1/2" X 3,68	MT. 6,00	TENARIS - H.760442	06/10918	177
1 2	6" X 7,11	MT. 24,00	TUBOS R - H.89845	186571	
1	1/2" X 2,77	MT. 12,00	ZELEZ - H.50359	3339/1/2005	
7.	3/4" X 2,87	MT. 78,00	TENARIS - H.770432	07/15345	
2 3 4	1" X 3,38	MT. 6,00	TUBOS R - H.89733	186572	
Δ	1.1/2" X 3,68	MT, 215,00			
7	1.1/2 1.2/00	(MT. 138,00)	TENARIS - H.761407	06/22550	
		(MT. 78,00)	TENARIS - H.760442	06/10918	
5	2" X 3,91	MT. 180,00	TUBOS R - H.88396	179398	
6	3" X 5,49	MT. 90,00			
J	3 1.3/10	(MT. 48,00)	TENARIS - H.772753	07/30908	
		(MT. 42,00)	TENARIS - H.772147	07/24633	•
ţ	5" X 6,55	MT. 6,00	VOEST A - H.424378	Z26521	1
ZINCATU	RA A CALDO	m		MANICOTTO	-

ZINCATURA A CALDO Hot galvanizing / Galvanization a chand

MANICOTTO
Coupling / Manchon

ANSI B1.20.1 NPT

3000 LBS

IL CONTROLLO VISIVO E DIMENSIONALE DEI TUBI E' STATO EFFETTUATO CON ESTO SOBDISFACENTE/VISUAL AND DIMENSIONAL CONTROL OF THE TUBIS HAS BEEN CARRIED OUT WITH SATISFACTORY RESULTS/ LE CONTROLE VISUEL ET DIMENSIONAL DES TUBIES A ETE EFFECTUE AVIC SATISFALSANT RESULTAT.

NOTE / Remarks / Notes

UFFICIO COLLAUDI Inspection Dept/Service Qualit

COMTUBLE FA A.CREGORI RESP. CASTIONE OF



Ordine n. TEL SIG. LIV del 28/04/2008 Bolla n. 3959 Item 114,3 X 6,55 Colata-heat 424378

N. Pezzi 1

del 5/05/2008 Kg. 144 MT 6 Code SS API 5L ZINC. VM

0000001469.001





Inšpekčný certifikát Inspection certificate EN 10204:1991/3.1.B, DIN 50049/3.1.B

Zákuzník/Prijemes - Customer/Consignes:

VIA G.DI VITTORIO-ZONA INDUSTR

FIORENZUOLA DARDA(PC

IL PRESENTE CENTIFICATO E

CLIENTERRAMEN A INDUSTRIALE

ORDINE Visie Europa, 10 - TREVIOLO (BG)
Tel. 035-201205 - Fax 032-201205
Cod. Fisc. 6 P. IVA 00727710162

1910, BOMAMNA s.c.l. IL

T.A.L. S.P.A.

29017

ITALY

Čislo 39255/1/2005

List c. - Sheet No.: 1 / 2

Ferramenta Industriale

Č.ext.obj. - External order No.: 051537

Číslo položky - Article munber: 3

C.obi.prii. - Consignee order No. : OF-050097

Číslo zákazky výrobcu – Manufacturer's works order number :

Dy 60334/2/2 6523008

Číslo dopravného prostriedku - Wogon No.:

BR 858 AK BR 838 YA

Číslo ložného lista - Loading Bill No.: 671279 654626 Čislo aviza - Dispatch note:

Výrobok - Product:

Rúry oceľové bezošvé, ťahané za studena - naftovodné rúry

Seamless cold-drawn steel tubes - line pipes

Vonkajší priemer - Outside diameter: 13.700 mm

Hròbka steny - Wall thickness:

2.240 mm

Dižka - Length:

6000.000 mm -0 +100 mm

Počet kusov - Number of pieces:

258

Celková dĺžka - Total length: Celková hmotnosť - Total mass: 1549.00 m 1004 kg

Material - Material :

X42/PSL 1 API Spec. 5L/2004/ . B/PSL 1 API Spec. 5L/2004/ ,

Grade B ASTM A 53 / A 53M/2004/ . Grade B ASTM A 106/2004/ ,

Grade B ASME SA-106/2004/, Grade B ASME SA-53/2004/

Stav dodania - Products as delivered condition: NBK

Technické predpisy - Technical requirements/Demand:

ASTM A 106/A 105M-04b , ASTM A 53/A 53M-04a , ASME SA-106 E2904 , ASME SA-53/SA-53M E2904 , API Spec.5L/2004 , ASTM A530/A530M-040,ASME SA530/SA530M-99 , TALTS-01 REV.3,ASME B 36.10M

Člsia tavby Cast number	Počet kusov Number of pieces	Dĺžka Length [m]	Himoinost'	Druh tavenia Steelmaking process
51192	223	1339	369	E
54025	35	210	135	E

Druh occie - Steel grade : úpine ukl'udnená ocel' - fully killed steel

- - - - - -

Chemické zloženie - Chemical composition Ma Cr Mn % **1%** 1 [%] [%] % [% % % % % 1 [%] Číslo tavby aus : recipis -Real Cent manufa 0.15 min. 0.12 0.040 0.030 0.015 0.020 0.010 0,30 0.30 0.40 0.20 1.06 0.35 max.

0.004 0.002 0.64 0.23 0.006 0.007 0.22 0.07 0.09 0.012 0.02 51192 0.13 0.006 0.008 0.009 0.18 0.011 0.01 0.001 0.65 **D.22** 54025 0.12

Miesto Location v Podbrezbye

Dátum 19.19.2995 Date

Vedúci kontrolného a atestačného oddelenia Ing. Vojtas Miroslav Engineering inspection official

CLEZIACIGE

वाद्यांको व्यवस्थित



ŻELEZIARNE PODBREZOVÁ, a. s., 976 B1 Padbrezová, SLOYAKIA Telefon / Phone: +421 48 645 40 70, 645 40 71, Fax: +421 48 645 40 72, www.oceloverury.sk, www.steeliuba.sk ICO 31 562 141, IC DPH / VAT Nº: SK2020458704, Bankové spojenie / Bank account VLB Banská Bystica, Nº 1909-312/0200 Społočnosť je zapísaná v Obchodnom registri Okresného súdu Bareká Bystrica, oddiel Sa, vlažka číslo 69/S



Inšpekčný certifikát Inspection certificate EN 19204:1991/3.1.B, DIN 50049/3.1.B

Clsio 39255/1/2005

List & - Sheet No. : 2 / 2

‡		Nb [%]	CEV [%]
Čisio tavby Cast number	Predpis -	Requireme	nts:
CDM Humper	min. max.	0.019	0.40
51192	l	0.003	0.28
54025	<u> </u>	<0.001	0.26

CEV: C+Min/6+(V+Mo+Cr)/5+(Ni+Cu)/15

Výrobková ana	lýza - Pro	duct analy	sis:								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	
Číslo tavby Cast number		C [%]	Mn 「%]	Si [%]	P [%]	. S [%]	Cu [%]	Cr [%]	Ni [%]	Al [%]	Mo [%]	Ti [%]	V [%]
51192	1	0.14	0.63	0.22	0.007	0.006	0.23	0.07	0.09	0.010	0.02	0.001	0.984
51192	2	0.14	0.64	0.23	0.007	0.006	0.22	0.07	0.09	0.011	0.02	0.001	0.003
54025	1	0.13	0.65	0.22	0.008	0.009	0.18	0.06	0.07	0.011	0.01	0.002	0.006
54025	2	0.13	0.65	0.22	800.0	0.009	0.18	0.06	0.07	0.011	0.01	0.002	0.006

Čislo tavby Cast number		Nb [%]
51192	1	<0.001
51192	2	<0.001
54025	1	<0.001
54025	2	<0.001

Skatka Cabom - Tensile test : 20 °C

	Číslo tavby		Medza klzu Yield point - Proof stress	Pevnosť v ľuhu Tensile strength	Tužnosť Elongation
C. Nr.	Cost number		Reil/ MPu/	Rm/ MPs/	Lo= 2"/ %/
Nr.	Predpis - Requirements :	min.	290	415	30.0
l		max.			
ī	51192		334	470	49,0
2.	54025		346	464	36.6

Skůška vodným tlakom vyhovela. Hydraulic pressure test without objections. 207 bar 5 sec

Skúška ohybom vyhovela. Bend test without objections.

Eddy current test without objections ASTM E-309 100 %

Výrobky spĺtlajú základné požiadavky na materiály pre tlakové zariadenia uvedené v Prílohe I Smernice pre tlakové zariadenia (PED) 97/23 EC. The products are in compliance with the material basic requirements according to the Pessure Equipment Directive (PED) 97/23 EC. Annex L. he I Smernice pre tlakové zariadenia (PED) 97/23 EC.

NACE MR 01-75-2003, HRC max.22. NACE MR 01-75-2003, HRC max.22.

Potvrdzujeme, že minimālne hodnoty medze klzu za zvýšenej teploty sa zhodujú s minimálnymi hodnotami medze klzu pre všetky zvýšené teploty, ktoré sú predplsané normou ASTM ASME II, časť D, tabuľka V I. iVe certify that min. hot yield point values are in compliance with the min. hot yield point values for all the elevated temperatures prescribed by ASTM ASME II, part

Skúška rázom v okybe nebola vykonaná z dôvodu nedostatočného rozmeru ráry, ktorý nedovoľuje pripraviť prislušné teliesko na jej vykonanie. Impoct test has been not performed due to insufficient pipe size that doesn't permit obtaining substze impoct speciment.

Všetky výrohky vyhovujú vyššie uvedeným normám a požiadavkám v objednávke. All products meet requirements of above mentioned standars and requirements specified in ord

Vizualna kontrola a rozmery vyhoveli (100 %). Visual inspection and dimensional check without objections (100 %).

EZIARNE Occion (fontation a c rènè pridalenia

FERRAMINT

A INDUSTRIALE

- FAX 635-201268

Till Soil.

Vialo Europa, 4 - 1/2 2VIOLO (BG)

Cod Fisc 9 P. IVA 00727710162

Miesto Location v Podbr<mark>ezove</mark>j

Datum 10.10.2005

Vedúci kontrolného a atestačného oddelenia Ing. Vojtas Miroslav Engineering inspection official









ŽELEZIARNE PODBREZOVÁ, p. z., 976 81 Podbrezová, SLOVAKIA Telefón / Phone: +421 48 645 40 70, 645 40 71, Fox: +421 48 645 40 72, www.oceloverusy.sk, ww ICO 31 562 141, IC DPH / VAT N°: SK2020458704, Bankové spojenie / Bank account: VLS Banko Byshica, N° 1909-312/0200 Spoločnost je zapisana v Obchodnom registri Okresného súdu Banská Bystricu, oddiel Sa, vlažka číslo 69/5

 Sede:
 Stabilimenti produttivi:
 Via Yalmolina Inferiore, 130
 Via Adda, 20 Loc. Capiate 23852 Garlate (LC)

 20161 Milano (MI)
 23852 Garlate (LC)
 23854 Olginate (LC)

 Tel. +39.02.66.20.20.66
 Tel. +39.0341.68.15.46
 Tel. +39.0341.68.05.03.40

 Fax +39.02.66.20.20.99
 Fax +39.0341.65.03.40
 Fax +39.0341.60.60.68

CERTIFICATO DI COLLAUDO / TEST CERTIFICATE CERTIFICAT D'ESSAI / PRÜFUNGSATTEST

N. 6608/10

del 04/11/2010

	USTOMER/CLIEF SRL MONT	,	USTRIALI	24050	GRASSOB	BIO BG					POSIZIONE AF 20200	RCHIVIO
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l;	iš iš \	<u> </u>	Client et/ou destinataire Cliente e/o destinatario	I LAMIE. /EMBRE N ZENO		· pièces Numero	B10	5 MAXIS S = 1,00 M		Senso dinale ersale
			Cliente	ANCHIN A IV NOV 5010 SA	Poste	Ordi- ne	B09 001	0-1.20 P=0.03 UfNI+CR+MG B07 730 022452		(3) Orientation / Senso L.Long / Longitudinale T.Travers / Traversale 3:30° / LML 4:45° / LML 6:60° / LML
		ARCELORMITTAL MEDITERRANEE USINE DE FOS SUR MER 13776 - FOS SUR MER CEDEX FRANCE TEI.04.42.47.33.14 Fax:04.42.47.17.20	-	Organismo e/o servizio di controllo RECEPTION USINE +SUP VIA IV NOVEMBRE 32 ER CONTRL ORGANISME 1-25010 SAN ZENO NAVIGLIO	oduit	Coulée Colata	B07 730 022452 730 022452	13-CU-fNI 13-CU-fNI 13-00 07		(3) Orie L:Long T:Trave 3:30°/1 4:45°/1
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PRODOTTI INDUSTRIALI S.P.A. METALFAR STAMPAGGIO A CALDO DI ACCIAI COMUNI - LEGATI E INOSSIDABILI

23861 CESANA BRIANZA (LC) - Ita. SEDE AMMINISTRATIVA E STABILIMENTO: quality.mif@farmas.com Tel. +39 031,655441 Fax +39 031.655149 Via G. Parini, 28

WITH QUALITY MANAGEMENT COMPANY

CERTIFICATO DI CC

4UDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE Certif. n. 779

DDT / Del Note n. 1049

// Dated 26.02.2010 Del / Dated 26.02.2010

Fattura / Invoice n.

Certificato generato da un sistema informatico secondo la norma EN10204, valido senza firma - This certificate has been generated by computer and need not to be signed for validity acc. to EN10204 BG FERRAMENTA INDUSTRIALE BONACINA SRL VIALE EUROPA, 26 - FRAZ. CURNASCO 24048 TREVIOLO SYSTEM CERTIFIED BY DNV = ISO 9001; 2000 == SALA PROVE E ANALISI MATERIALI / MATERIAL TEST DEPARTMENT

Pag. 7 - 10 SNERVAMENTO VISUAL & DIMENS. VISIVO E DMENS. SATISFACTORY SATISFACTORY SATISFACTORY MANUFACTURER"S SYMBOL SATISFACTORY SATISFACTORY SATISFACTORY N/mm2 >=1,0% SATISFACTORY OTHER ELEMENTS YIELD POINT 0 0 0 0 0 0 MARCHIO PRODUZIONE ORIGINE ORIGIN EUROPE EUROPE EUROPE EUROPE EUROPE EUROPE EUROPE I=0 2=0 FORMA SHAPE **ELECTRIC FURNACE** ELECTRIC FURNACE ELECTRIC FURNACE ELECTRIC FURNACE ELECTRIC FURNACE ELECTRIC FURNACE **ELECTRIC FURNACE** 0,420 0,406 0,409 0,393 0,416 C.E.% 0,401 DIM. ACCORDANCE TO 90 88 80 83 83 FURNACE DIM.IN ACC. A FORNO ASME/ANSI B16.5 JOULE/cm2 0,028 0,028 0,008 0,030 0,005 0,005 88 90 86 86 87 900'0 Al% ENTE UFFICIALE DI COLLAUDO INSPECTION AUTHORITY 86 83 84 84 87 88 RESILIENZA / IMPACT TEST 000'0 000'0 000'0 0,000 0,000 000'0 000'0 % N 2222222 2,002 0,003 0,001 0,001 %qN TIPO / TYPE **\$ \$ \$ \$ \$ \$ \$** 000'0 0,002 0,002 0,003 0,020 % 0,180 0,170 0,170 FLATTENING TEST 0,160 0,180 0,170 NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR Cu% TRATTAMENTO TERMICO SCHIACCIAM. QUALITY CONTROL DEPARTEMENT **UFFICIO CONTROLLO QUALITA** HEAT TREATMENT 0,018 900'0 0,002 900'0 0,010 0,007 %∺ DESCRIZIONE DESCRIPTION BEND TEST 0,010 0,020 0,030 0,020 0,010 0,010 Mo% 63,0 - 165,0 159,0 - 163,0 159,0 - 163,0 159,0 - 163,0 59,0 - 163,0 163,0 - 165,0 159,0 - 163,0 0,050 0,050 0,050 0,110 0,040 0.080 HARDNESS Hb **DUREZZA Hb** % Z A105 A105 A105 A105 A105 0,140 060'0 0,150 0,100 0,100 çç% REDUCT. OF AREA CONTRAZIONE 59,0 0'09 S/O 300 RF 1.1/2" 0,015 0,010 0,013 0,011 0,013 0,012 S/O 150 RF 12" S/O 300 RF 12" S/O 150 RF 6" S/O 300 RF 8" S/O 150 RF 8" S/O 300 RF 2" 0,015 0,012 0,003 0,014 0,015 0,013 0,011 ALLUNGAMENTO ELONGATION %s 30'0 32,0 30,0 ار ان 10,00 20,00 10,00 5,00 20,00 030 066'0 096'0 0,970 Mn% **FNSILE STRENGHT** MATERIAL IN ACCORDANCE TO MATERIALE IN ACCORDO A V/mm2 >= 528,0 529,0 536,0 526,0 540,0 529,0 ROTTURA 538,0 0,270 0,230 0,180 0,220 Si% ASTM/ASME A 105/SA 105 M - 05 ASTMASME A 105/SA 105 M - 05 0,180 0,195 0,200 0,190 0,200 0,200 % PROVETTA / TEST SPECIM. SNERVAMENTO YIELD POINT /mm2 >=0,2% 347,0 344,0 330,0 372,0 338,0 333,0 370,0 30727710162 (DE) 0.10 5-201268 REINTEGRO DEPOSITO VS.ORDINE YOUR REF BEZ./SECT. LUNG./LENG. 50,80 50,80 50,80 50,80 50,80 50,80 MATERIAL ASTM A105 126,60 126,60 126,60 126,60 126,60 126,60 126,60 206. Fire E 10010 13 613 は一般に対象が POS. POS. POS. POS. 0049 0020 0048 0045 0049 0020 0046 0048 0048 0049 0020 0051 0046 0044 0048 0051 0045 0046 0049 0020 0051 0051 39/35466 09/35285 333805 09/35285 09/35285 333805 08/32860 32860 39/35466 08/32860 38/38247 COLATA 38/38247 COLATA 09/35285 39/33805 08/32860 09/35466 39/33805 09/35466 COLATA 08/38247 08/38247 COLATA HEAT HEAT 548727 HEAT 548727 548727 548727 74401 74401 74401 74401 COD. COL. HEAT CODE COD. COL. HEAT CODE **IEAT CODE** COD. COL. HEAT CODE COD. COL. NOTES NOTE

METALFAR PRODOTTI INDUSTRIALI S.P.A.

Tel. +39 031.655441 Fax +39 031.655149

23861 CESANA BRIANZA (LC) - Itali SEDE AMMINISTRATIVA E STABILIMENTO:

// Dated 26.02.2010 Del / Dated 26.02.2010 Certif. n. 779 DDT / Dei Note n. 1049

BG

Fattura / Invoice n.

CERTIFICATO DI COLLAUDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE Del / Dated

SALA PROVE E ANALISI MATERIAL / MATERIAL TEST DEPARTMENT
Certificato generato da un sistema informatico secondo la norma EN10204, valido senza firma - This certificate has been generated by computer and need not to be signed for validity acc. to EN10204 SYSTEM CERTIFIED BY DNV = ISO 9001 : 2000 = quality.mff@farmas.com STAMPAGGIO A CALDO DI ACCIAI COMUNI - LEGATI E INOSSIDABILI

FERRAMENTA INDUSTRIALE BONACINA SRL VIALE EUROPA, 2G - FRAZ, CURNASCO 24048 TREVIOLO COMPANY WITH QUALITY MANAGEMENT

Pag. 6 - 10

HEAT CODE	HEAT	ITEM	YOUR REF	YOUR REF.		Ω. 7.				DESC	DESCRIPTION					DIM.IN ACC. A DIM. ACCORDANCE TO	DIM.IN ACC. A ACCORDANCE	<u></u>	VISIVO E DMENS.
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+	00/00/00	242	NEIN EGRO DEPO	0110		134,00	S/O 150 RF 4"	RF 4"	A105						ASI	ASME/ANSI B16.5	B16.5		SATISFACTORY
COD. COL. HEAT CODE	COLATA	POS.	MATERIALE	% ပီ	%is	%uw	%\$	%	% 2	% Z	Mo%	71% 1	%nɔ	%A	Np%	%N	Al% C.	C.E.%	ALTRI ELEMENTI
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<u>.</u>	09/33890	0038	ASTM A105	0,200	0,220	1,010	0,010	0,013	0,130	090.0								200,00	
-	09/35501	6000	ASTM A105	0,200		1,140	0,010	0,014	0,130									7 7	
	09/33796	0040	ASTM A105	0,185	0,230	0,970	0,013	0.015	0.140									2 6	
	09/90593	0041	ASTM A105	0,190		1,020	0,010	0,018	-0,050							·		780,0	
	08/74748	0042	ASTM A105	0,185	0,220	0.980	0.014	0.013	0.080									000	
	09/36266	0043	ASTM A105	0,180		0,970	0,015	600'0	0,110								0,021	0,387 0,380	
COD. COL.	COLATA	POS	PROVETTA / TEST SPECIM.	SNERVAMENTO	ROTTURA		ALLINGAMENTO	CONTRACTION		-[- ,		-		200		-1	000	
HEAT CODE	HEAT	ITEM			TENSILE STRENGHT			CONTRACIONE		DUREZZA HB	PIEGA		\perp	RESIL	RESILIENZA / IMPACT TEST		JOULE/cm2	2	FORMA SNERVAMENTO
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PRODOTTI INDUSTRIALI S.P.A. METALFAR

23861 CESANA BRIANZA (LC) - Ital EDE AMMINISTRATIVA E STABILIMENTO: Fax +39 031.655149 Tel. +39 031.655441 Via G. Parini, 28

WITH QUALITY MANAGEMENT COMPANY

CERTIFICATO DI COI/ "IDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE

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Dated 26.02.2010 Del / Dated 26.02.2010 Certif. n. 779 DDT / Del Note n. 1049

Pag. 5 - 10 SNERVAMENTO **JISUAL & DIMENS** SATISFACTORY SATISFACTORY SATISFACTORY YIELD POINT N/mm2 >=1,0% MANUFACTURER"S SYMBOL VISIVO E DMENS. SATISFACTORY SATISFACTORY SATISFACTORY SATISFACTORY OTHER ELEMENTS ALTRI ELEMENTI 0,0 0,0 0,0 ORIGINE ORIGIN **MARCHIO PRODUZIONE** EUROPE EUROPE EUROPE EUROPE EUROPE EUROPE EUROPE MFF Del / Dated 1=0 2=1 FORMA SHAPE ELECTRIC FURNACE ELECTRIC FURNACE **ELECTRIC FURNACE ELECTRIC FURNACE ELECTRIC FURNACE ELECTRIC FURNACE** ELECTRIC FURNACE 0,394 0,369 0,384 0,369 0,406 0,373 DIM. ACCORDANCE TO C.E.% 85 85 85 85 85 85 85 FURNACE DIM.IN ACC. A FORNO Fattura / Invoice n. ASME/ANSI B16.5 ASME/ANSI B16.5 ASME/ANSI B16.5 RESILIENZA / IMPACT TEST - JOULE/cm2 ASME/ANSI B16.5 ASME/ANSI B16.5 ASME/ANSI B16.5 ASME/ANSI B16.5 0,026 0,023 0,026 0,013 600'0 88 90 80 80 85 0,027 0,027 AI% ENTE UFFICIALE DI COLLAUDO Certificato generato da un sistema informatico secondo la norma EN10204, valido senza firma - This certificate has been generated by computer and need not to be signed for validity acc. to EN10204 INSPECTION AUTHORITY 88 88 80 87 80 80 83 . 0,000 000'0 000'0 000'0 000'0 0,000 000'0 % Z 88888888 ပ္ 000'0 000'0 0,000 0,001 0,001 0,001 0,001 %qN ь TIPO / TYPE BG 0,002 0,000 0,002 0,001 0,001 0,001 0,001 FERRAMENTA INDUSTRIALE BONACINA SRL VIALE EUROPA, 2G - FRAZ. CURNASCO 24048 TREVIOLO **%** 0,170 0,210 0,210 0,130 0,170 0,150 FLATTENING TEST NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL-AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR STM/ASME A 105/SA 105 M 05 PR MILLIA INTUSTINGEMALIZED AT 920 C - COOLED IN STILL AIR (STM/ASME A 105/SA 105 M 05 PR 05 %no SCHIACCIAM. TRATTAMENTO TERMICO 0000000 QUALITY CONTROL DEPARTEMENT UFFICIO CONTROLLO QUALITA' HEAT TREATMENT 900'0 0,005 200'0 0,007 600'0 0,007 %" BEND TEST DESCRIZIONE DESCRIPTION 0,0 0,0 S. Corti PIEGA 0,010 0,010 0,010 0,010 0,010 0,010 %o₩ 159,0 - 163,0 159,0 - 163,0 159,0 - 163,0 159,0 - 163,0 163,0 - 165,0 159,0 - 163,0 163,0 - 165,0 0,050 0,050 0,040 0,050 0,050 0,050 HARDNESS Hb DUREZZA Hb % Ž A105 A105 A105 A105 A105 A105 0,110 0,100 0,070 0,100 0.070 0.000 ဦ LAP JOINT 150 FF 12" LAP JOINT 150 FF 2" SYSTEM CERTIFIED BY DNV = ISO 9001 : 2000 = REDUCT, OF AREA THRD 150 RF 1.1/2" CONTRAZIONE 0'09 58,0 58,0 Male Euroffa, 2G - TRIEVICE O (P.C.) 10. 035/261268 - Fax 035-201268 Cod, Fisc. 6 F. IVA 00727710162 59,0 0'09 S/O 150 RF 1.1/2" S/O 150 RF 1/2" 0,014 0,015 0,018 0,014 0,011 0,011 S/O 150 RF 1" S/O 150 RF 3" <u>%</u> 0,015 0,015 0,014 0,015 0,015 0,017 0.015 ALLUNGAMENTO ELONGATION % 34,0 33,0 33,0 30,0 34,0 34,0 10,00 15,00 20,00 50,00 50,00 50,00 30,00 0,960 0,890 1,010 006'0 0,890 0,980 Mn% Q.TA' Q.™ MATERIAL IN ACCORDANCE TO TENSILE STRENGHT MATERIALE IN ACCORDO A \/mm2 >= 524,0 521,0 537,0 529,0 521,0 530,0 536,0 ROTTURA 0,243 0,270 0,200 0,180 0,220 0,220 0,180 **%** ASTM/ASME A 105/SA 105 M - 05 ASTM/ASME A 105/SA 105 M - 05 ASTM/ASME A 105/SA 105 M - 05 KSTM/ASME A 105/SA 105 M - 05 STM/ASME A 105/SA 105 M - 05 0,190 0,190 0,185 0,190 0,205 0,190 స్టి SNERVAMENTO quality.mff@farmas.com YIELD POINT N/mm2 >=0,2% 325,0 323,0 331,0 328,0 323,0 373,0 SALA PROVE E ANALISI MATERIALI / MATERIAL TEST DEPARTMEN REINTEGRO DEPOSITO VS.ORDINE YOUR REF. PROVETTA / TEST SPECIM. LUNG./LENG. MATERIALE 50,80 50,80 50,80 50,80 50,80 50,80 50,80 MATERIAL Ē dustriale ASTM A105 **4STM A105** ASTM A105 ASTM A105 **ASTM A105** ASTM A105 ASTM A105 SEZ./SECT. 126,60 126,60 126,60 126,60 126,60 126,60 126,60 Santini STAMPAGGIO A CALDO DI ACCIAI COMUNI - LEGATI E INOSSIDABILI mm2 Fortamenta SOFROG Sivia ITEM Pos. Pos. POS. EE 0033 0035 0036 0032 0033 0035 9000 0034 0030 0032 0034 0033 0035 0031 0034 0036 0032 0033 0034 0035 0031 0031 0032 0030 0036 09/35394 09/35394 COD. COL. | COLATA 09/77048 COLATA 09/77048 09/77048 39/35394 09/77048 09/35394 COLATA COLATA HEAT HEAT HEAT HEAT 71412 77048 554722 74526 71412 77048 74526 654722 74301 71412 77048 74526 71412 77048 74301 74301 74301 74526 HEAT CODE HEAT CODE COD. COL. HEAT CODE HEAT CODE COD. COL. COD. COL. NOTE NOTES

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