



**INSPECTION CERTIFICATE
CERTIFICADO DE INSECCION
CERTIFICAT DE RECEPCION
ABNAHMEPRÜFZEUGNIS
EN 10204:2004 / 3.1**

Number: 737237 Page: 1 / 5	Rev:
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Created on: Date: 09/28/2022	Modified on:
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CUSTOMER DESCRIPTION/DESCRIPCIÓN DEL CLIENTE/KUNDENBEZEICHNUNG/COMMETTANT

CLIENT SOLD TO/SOLICITANTE/AUFTRAGGEBER/COMMETTANT TSS TUBACEX SERVICE SOLUTIONS, S.A.U POLIGONO INDUSTRIAL SARATXO 01470 AMURRIO ESPAÑA	CLIENT SHIP TO/DESTINAT. TUBACEX SERVICE SOLUTIONS S.A.U. POLÍGONO INDUSTRIAL SARATXO 01470 AMURRIO ESPAÑA
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SS-T8-S-049-20

CLIENT ORDER/PEDIDO CLIENTE/KUNDEN AUFTRAGSNUMMER/NO.DE COMMANDE: I009784

SALES ORDER/PEDIDO VENTAS/AUFTRAGSNUMMER/NO.DE COMMANDE D'USINE:

MATERIAL:SEAML. STAINL. STEEL TUBES/PIPES/TUBOS INOXIDABLES SIN SOLDADURA/TUBES INOX SANS SOUDURE/NAHTLOSE EDELSTAHLROHRE
BRIGHT ANNEALED / RECOCIDO BRILLANTE / RECUIT BRILLANT / BLANKGEGLÜHT, PASSIVATED AS PER ASTM A380 / PASIVADO SEGUN ASTM A380 / PASSIVÉ (ASTM A380) / PASSIVIERT (ASTM A380)
GRADE / ACERO / GRADE / WERKSTOFF: S31600,S31603,TP316,TP316L,1.4401,1.4404,
STANDARD / NORMA / STANDARD / LIEFERUNG NACH: AD 2000 W2/01.2020 EINBAUROHRE
ASME SECT.II PART.A SA213/SA213M-2021 ED.
ASTM A213/A213M-19A
ASTM A269/A269M-15a
EN 10297-2:2005
EN 10216-5:2021 TC1
AD 2000 W10/05.2016
CORROSION TESTED ACC. TO ASTM A262 PRACTICE E
CORROSION TESTED ACC. TO EN ISO 3651-2 PRACTICE A
HYDROSTATIC TEST AT 350 BAR
HARDNESS MAX. 80 HRB
NORSOK M630 REV.6 MDS S01 REV.5
ANSI/NACE MR0103/ISO 17945:2015
ANSI/NACE MR0175/ISO15156-3:2015
TRB 100 FEBRUAR 1995
TRD 100 MAI 1991
EDDY CURRENT TESTED ACC. TO ISO 10893-1
TOLERANCES / TOLERANCIAS / TOLERANCES / TOLERANZEN NACH: ASTM A269/A269M-15a
EN ISO 1127/03.97 D4/T3
FIXED LENGTHS / LARGOS FIJOS / LONGUEUR FIXE / GENAULÄNGE 6.096 MM
PLAIN ENDS / LISOS / EXTRÉMITÉ D'EQUERRE / GLATTE ENDEN,
DIMENSIONS/DIMENSIONES/DIMENSIONS/DIMENSIONS: 12,70 X 1,24/1,22 MM/1/2 "ODX18 BWG/SWG/1/2 "OD X 0,049 "/0,048
"
COLD FINISHED/LAMINADOS EN FRIO/KALTGEFORMT/LAMINES A FROID

Sales Item Pos Ped.	Client Item Pos Clnt	Delivery No N° Entrega	Lot No. N° lote	Heat No Colada	Pieces Piezas	Weight Peso	Tot Lgth Long. Tot	Un Lgth Long. Un
AuftrgPos	Kunde Pos	Lieferung	Los Nr.	Schmelze	Stück	Gewicht	Gesamtlänge	Längentyp
Usine Pos	Com. Pos	Avis. d'exp	Lot d'inspection	Coulée	Pcs	Poids	Tolength	Long. Un



Certified Management
System acc. to
ISO 9001, ISO 14001 and
ISO 45001 by LRQA

**SCHOELLER-BLECKMANN
EDELSTAHLROHR GMBH**

M. Borzacchini
HR. M. BORZACCHINI

(WORKS INSPECTOR)

We hereby certify that the material herein described has been manufactured, sampled, tested, and inspected in accordance with above standards and specifications and satisfies order's requirements. This certificate is issued by a computerized system and it is valid without original signature. In case the owner of the certificate would release as a copy of it, he must attest its conformity to the issued, assuming the responsibility for any unlawful or TUBACEX, not allowed use. Any forgery or falsification of this certificate shall legally prosecuted.

Sales Item	Client Item	Delivery No	Lot No.	Heat No	Pieces	Weight	Tot Lgth	Un Lgth
Pos Ped.	Pos Clnt	N° Entrega	N° lote	Colada	Piezas	Peso	Long. Tot	Long. Un
AuftrgPos	Kunde Pos	Lieferung	Los Nr.	Schmelze	Stück	Gewicht	Gesamtlänge	Längentyp
Usine Pos	Com. Pos	Avis. d'exp	Lot d'inspection	Coulée	Pcs	Poids	Tolength	Long. Un
80		8170096760	292206	58681	3,221	15,361.813 LB	64,419.996 FT	20,000-0,000 FT

RAW MATERIAL/DATOS MATERIAL/VORMATERIAL/MATIERE PREMIERE

Heat Nr:	Supplier	Method
58681	ACERALAVA (SPAIN)	Electric furnace+AOD

CHEMICAL COMPOSITION (%)/COMPOSICIÓN QUÍMICA (%)/CHEMISCHE ZUSAMMENSETZUNG (%)/COMPOSITION CHIMIQUE(%)

*L: Ladle C:Products

*	Heat	Seq	C	Mn	Si	P	S	Ni	Cr	Mo	N
L	58681	1	0.008	1.48	0.370	0.027	0.0060	11.21	16.78	2.15	0.0670
C	58681	1	0.009	1.53	0.410	0.026	0.0060	11.17	16.86	2.19	0.0700

HEAT TREATMENT/TRATAMIENTO TÉRMICO/WÄRMEBEHANDLUNG/TRAITEMENT THERMIQUE

HIPERTEMLADOS A 1100 °C , 10 min , J
SOLUTION ANNEALED AT 1100 °C , 10 min , JET
HYPERTREMPES 1100 °C , 10 min , J
LOESUNGSGEGLUEHT 1100 °C , 10 min , Jet

TENSILE TEST/TEST DE TENSION/ESSAI TRACTION/ZUGVERSUCH

Lot No	Sample	T	Rp0.2	Rp1.0	Rm	A2"	A5
		°C	KSI	KSI	KSI	%	%
Min		20	30	35	75	35	40
Max		20			100		
292206	1	20	48	52	83	39	44
	2	20	45	49	83	51	57

HARDNESS TEST/TEST DE DUREZA/DUREE/HÄRTEPRÜFUNG

Lot No	Sample	HRB	HV
Min			
Max		80	150
292206	1	78	149
	2	78	149

METALURGICAL TESTS/ENSAYOS METALÚRGICOS/METALLURGISCHE PRÜFUNGEN/ESSAIS METALLURGIQUES

INTERGRANULAR CORROSION TEST ACC. TO ASTM A262 PRACT."E": SATISFACTORY
ENSAYO DE CORROSION INTERGRANULAR DE ACUERDO A ASTM A262 PRACT.E:
SATISFACTORIO
BESTÄNDIGKEIT GEGEN INTERKRISTALLINE KORROSION ENTSPRECHEND ASTM A262
PRACT.E: IN ORDNUNG
ESSAI DE CORR. INTERGR. SELON ASTM A262 PRACT.E:SATISFAISANT

INTERGRANULAR CORROSION TEST ACC. TO DIN 50914/DIN EN ISO 3651-2 MET.A:
SATISFACTORY



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ENSAYO DE CORROSION INTERGRANULAR DE ACUERDO A DIN 50914/ DIN EN ISO 3651-2 MET.A: SATISFACTORIO
BESTÄNDIGKEIT GEGEN INTERKRISTALLINE KORROSION ENTSPRECHEND DIN 50914/ DIN EN ISO 3651-2 VERF.A: IN ORDNUNG
ESSAI DE CORR. INTERGR. SELON ASTM DIN 50914/DIN EN ISO 3651-2 MET.A: SATISFAISANT

NON-DESTRUCTIVE TESTS/ENSAYOS NO DESTRUCTIVOS/ZERSTÖRUNGSFREIE PRÜFUNGEN/ESSAIS NON DESTRUCTIFS

POSITIVE MATERIAL IDENTIFICATION TEST ON EACH TUBE/PIPE BY "X-RAY-FLUORESCENCE-ANALYZER": SATISFACTORY
VERIFICACION DEL GRADO DE ACERO EN CADA TUBO MEDIANTE "ANALIZADOR DE FLUORESCENCIA DE RAYOS X": SATISFACTORIO
VERWECHSLUNGSPRUEFUNG AN JEDEM ROHR MIT "RÖNTGEN-FLUORESZENZ-ANALYSATOR": IN ORDNUNG
VERIFICATION DE LA NUANCE SUR CHAQUE TUBE PAR "X-RAY-FLUORESCENCE-ANALYZER": SATISFAISANT

HYDROSTATIC PRESSURE TESTED AT 350 bar, 5100 PSI DURING 5 SEC ON EACH TUBE/PIPE: SATISFACTORY

ENSAYO HIDROSTÁTICO A 350 bar, 5100 PSI DURANTE 5 SEC EN CADA TUBO: SATISFACTORIO
WASSERDRUCKPRÜFUNG BEI 350 bar, 5100 PSI HALTEZEIT 5 SEC JE ROHR: IN ORDNUNG
ESSAI DE PRESSION HYDROSTATIQUE À 350 bar, 5100 PSI PENDANT 5 SEC SUR CHAQUE TUBE: SATISFAISANT

100% EDDY CURRENT TEST AT ISO 10893-1: SATISFACTORY
100% ENSAYO DE CORRIENTES INDUCIDAS DE ACUERDO A ISO 10893-1: SATISFACTORIO
100% WIRBELSTROM PRUEFUNG NACH ISO 10893-1: O.B.
100% CONTROLE COURANTS FOUCAULT D'APRES ISO 10893-1: BIEN

TECHNOLOGICAL TESTS/ENSAYOS TECNOLÓGICOS/TECHNOLOGISCHE PRÜFUNGEN/TECHNOLOGICAL TESTS

FLARING TEST: SATISFACTORY
ABOCARDADO S.NORMA: SATISFACTORIO
AUFWEITVERSUCH: IN ORDNUNG
ESSAI D'EVASEMENT: SATISFAISANT

FLATTENING TEST: SATISFACTORY
APLASTADO S.NORMA: SATISFACTORIO
RINGFALTVERSUCH: IN ORDNUNG
ESSAI D'APLATISSEMENT: SATISFAISANT



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BESICHTIGUNG UND NACHMESSUNG: IN ORDNUNG
INSPECTION AND CHECKING OF DIMENSIONS: SATISFACTORY
INSPECTION ET CONTROL DES DIMENSIONS: SATISFAISANT

DIE WERKSTOFFWERTE ENSPRECHEN PUNKT 7.5 DER DRUCKGERÄTERICHTLINIE
2014/68/EU, ANHANG 1, MIT EINER BRUCHDEHNUNG VON MINDESTENS 14 % IM
ZUGVERSUCH UND EINER KERBSCHLAGARBEIT VON MINDESTENS 27 J AN EINER
ISO-V-KERBSCHLAGPROBE BEI 20° C.

MATERIAL CHARACTERISTICS COMPLY WITH POINT 7.5 OF ANNEX I TO PRESSURE
EQUIPMENT DIRECTIVE 2014/68/EU BY HAVING AN ELONGATION AFTER RUPTURE AT
TENSILE TEST NO LESS THAN 14 % AND A BENDING RUPTURE ENERGY AT IMPACT
TEST NO LESS THAN 27 J AT 20°C.

MARKING/ETIQUETADO/KENNZEICHNUNG/MARKSTEXT

SCHOELLER BLECKMANN / TUBACEX GROUP - SBS 12,70 X 1,24/1,22 MM/1/2 "ODX18 BWG/SWG/1/2 "OD X 0,049 "/0,048 "
ASME SA213 ASTM A213 ASTM A269 EN 10216-5 TC1 EN 10297-2 S31600 S31603TP316 TP316L 1.4401 1.4404 CFA CD AW
SMLS HEAT/ PMI-AV LOT NO/ MADE IN AUSTRIA T/A ZFP

REMARKS/OBSERVACIONES/ANMERKUNG/REMARQUES

MECHANICAL TESTS WERE PERFORMED IN LONGITUDINAL DIRECTION IF NOT
OTHERWISE STATED.

REALIZADOS TEST MECÁNICOS EN DIRECCIÓN LONGITUDINAL SI NO HAY OTRAS
INSTRUCCIONES.

DIE MECHANISCHEN PRÜFUNGEN WURDEN, SOWEIT NICHT ANDERS ANGEGEBEN,
IN LÄNGSRICHTUNG DURCHGEFÜHRT.

LES ESSAIS MÉCANIQUES ONT ÉTÉ FAITS, SI PAS SPÉCIFIÉ, EN DIRECTION
LONGITUDINALE.

NO WELD REPAIR HAS BEEN PERFORMED ON THE MATERIAL.

SIN REPARACION POR SOLDADURA

AM MATERIAL WURDE NICHT GESCHWEISST.

SANS RÉPARATION AVEC SOUDURE

MATERIAL MANUFACTURER APPROVED WITH CERTIFICATE NR. 245/2004/MUC BY TÜV SÜDDEUTSCHLAND (NOTIFIED BODY 0036) TO
ISSUE CERTIFICATES OF SPECIFIC PRODUCT CONTROL IN ACCORDING TO PRESSURE EQUIPMENT DIRECTIVE 2014/68/EU.

FABRICANTE DE MATERIALES APROBADO CON CERTIFICADO Nº 245/2004/MUC EMITIDO POR TÜV SÜDDEUTSCHLAND (ORGANISMO
NOTIFICADO 0036) PARA LA EMISION DE CERTIFICADOS ESPECIFICOS DE CONTROL DE PRODUCTO DE ACUERDO DE LA



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REMARKS/OBSERVACIONES/ANMERKUNG/REMARQUES

DIRECTIVA DE EQUIPOS A PRESION 2014/68/EU.

WERKSTOFFHERSTELLER MIT BERECHTIGUNG ZUR AUSSTELLUNG VON BESCHEINIGUNGEN ÜBER SPEZIFISCHE PRÜFUNGEN AN DEN WERKSTOFFEN IM GELTUNGSBEREICH DER ZERTIFIZIERUNG UND IN ÜBEREINSTIMMUNG MIT DER DRUCKGERÄTERICHTLINIE 2014/68/EU UND DEN ZUGRUNDE LIEGENDEN SPEZIFIKATIONEN ENTSPR. ZERTIFIKAT NR. 245/2004/MUC DER BENANNTE STELLE NR.0036, TÜV SÜDDEUTSCHLAND

PRODUCTEUR DU MATERIEL APPROUVE SOUS CERTIFICATION N° 245/2004/MUC PAR TUV SUDDEUTSCHLAND (N.B. 0036) POUR EMISSION DES CERTIFICATS SPECIFIQUE DE CONTROLE DE PRODUIT SELON LA DIRECTIVE DES EQUIPES A PRESION 2014/68/EU.

MATERIAL IS FREE OF RADIOACTIVE CONTAMINATION
EL MATERIAL ESTA LIBRE DE CONTAMINACION POR RADIACIONES
MATERIAL IST FREI VON RADIOAKTIVITÄT
MATÉRIEL LIBRE DE POLUTION RADIOACTIVE



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E. P. Borzacchini
E. P. Borzacchini
Jan 20-2023

SCHOELLER-BLECKMANN
EDELSTAHLROHR GMBH

Borzacchini
HR. M. BORZACCHINI

(WORKS INSPECTOR)