




F14017 - 9/16" JIC Male x Male
45° Elbow 10K 316L

kleckner metals

We certify that this document is a true and current copy of the original certificate provided by the supplier/producer. The document from which this copy has been taken can be inspected on request. Customer: CHARLES DAY (STEELS) LTD, Sheffield
Despatched 10.09.2018 on Shipment 9900021127 Delivery 818873830 Customer Ref. 014096
Stainless Steel 316 / 316L Quarto Plate
EN 10088-2
Hot Rolled
15x1250x2500
Batch: 0009396429



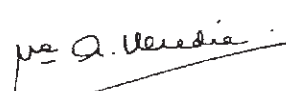
11137 

50139738830003 → 0009396429 → T5HA

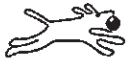
ACERINOX EUROPA FABRICA DEL CAMPO DE GIBALTAR PALMONES (LOS BARRIOS) TFO. (34) - 956 62 93 00 FAX (34) - 956 62 93 11 P.O. BOX 21 11370 LOS BARRIOS (CADIZ) ESPAÑA		 by Accredited Body		Abnahmeprüfzeugnis INSPECTION CERTIFICATE Prüf - Nr. FO 2018 24860 50001 E Inspection No. ACCORDING TO EN 10204 3.1 NACH <small>*Satzimmungsbescheid des TÜV Baden vom 21. Februar 1983* Letter of approval from the TÜV Baden dated 21-2-83 *Laut Schreiben des TÜV Baden e. V. vom 26 Juni 1.989 wird auf die Gegenzeichnung verzichtet.* TÜV Baden renounce to the countersignature according their letter dated 26-6-89</small>									
Besteller - Customer HW INOX GmbH /Anlief.ex Hafen		Auftrags Nr - Our order n° SO 69096		Bestellung Nr your order n° 4838/August18u.V.									
Prüfgegenstand - Article BLECH (PLATE)		Werkstoff Nr und Lieferzustand - Material n° and Condition of Delivery 1.4404/1.4401 1D											
Werkstoff - Normbez Standard - Grade of Material X2 CrNiMo 17-12-2 /X5 CrNiMo 17-12-2		Werksbez - Works Grade Acx - 240		Erschmelzungsart - Steelmaking Process A=AOD Verfahren - AOD Process A									
Anforderungen - Technical requirements EN 10028-7/TRB 100/AD-2000-MERKBLATT W2/W10 PED 2014/68/EU EN ISO-18286(Thickness Tolerances)						Kennzeichnung - Marking Schmelznummer - n° of coil							
Zeichen des Lieferwerks - Brand of the manufacturer 				Stempel des Sachverständigen - Inspector's stamp 									
Pos Nr. Item N°	Stückzahl Quantity	Abmessung - Dimensions mm			Schmelze Nr Heat N°	Probe Nr Test N°							
1	2	15,000 x 1.250,00 x 2.500,00			T5HA	05T5HA C							
Chemische Analyse - Chemical Composition (%)													
Schmelze Nr Heat N°	C	CR	MN	MO	N	NI	P	S	SI				
Anforderungen Requirements	0,030	16,500 18,500	2,000	2,500	0,100	10,000 13,000	0,045	0,015	1,000				
T5HA	0,017	16,635	1,301	2,054	0,038	10,085	0,032	0,001	0,330				
Mechanische Eigenschaften - Mechanical Properties													
Probe Nr Test N°	Prob.-Lage Pos of Test	Abmessungen des Probestabs Dim. of specimen		Rm N/mm2	Rp 0.2 N/mm2	Rp 1.0 N/mm2	A5 %						
Anforderungen Requirements		Breite x Dicke Width x Thickness mm		520,00 670,00	220,00	260,00	45,00						
05T5HA	C T	30,000	15,00	584,29	270,70	317,79	56,80						
Besichtigung und Maßkontrolle wurden durchgeführt: O.B. Surface and dimensions controlled: O.K. Der Werkstoff ist beständig gegen interkristalline Korrosion gemäss EN ISO 3651-2 The material is resistant to intergranular corrosion test according to ISO 3651-2 Spektroskopische Identifizierung: O.B. Spectrometrical Identity test: O.K. Wärmebehandlung: Glühen bei 1050 - 1100 °C Heat treatment: Und Abkühlen mit Luft. cooling with air. Die Lieferung entspricht der Bestellung. The delivery is in accordance with the order Issued in agreement with TÜV SÜD Industrie Service GmbH (02/1983)							WERKSACHVERSTÄNDIGER WORK INSPECTOR A. Heredia Zeugnis ist per EDV erstellt und ohne Unterschrift gültig gemäss E-Norm 10204						
							Palmones, 29 JUNIO 2018						


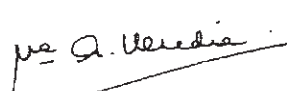
We certify that this document is a true and current copy of the original certificate provided by the supplier/producer. The document from which this copy has been taken can be inspected on request. Customer: CHARLES DAY (STEELS) LTD, Sheffield
 Despatched 10.09.2018 on Shipment 9900021127 Delivery 818873830 Customer Ref. 014096
 Stainless Steel 316 / 316L Quarto Plate
 EN 10088-2
 Hot Rolled
 15x1250x2500
 Batch: 0009396429



ACERINOX EUROPA FABRICA DEL CAMPO DE STRELLTAR PALMONES (LOS BARRIOS) Telf. (34) - 99 62 93 00 Fax (34) - 99 62 93 11 P.O. BOX 52 11370 LOS BARRIOS (CADIZ) ESPAÑA		 by Accredited Body		<h2 style="margin: 0;">INSPECTION CERTIFICATE</h2> <h3 style="margin: 0;">ABNAHMEPRÜFZEUGNIS</h3>				3.1														
ACCORDING TO EN 10204 <small>GRUAS</small>				CERTIFICATE N° F0 2018 24860 50002 * <small>PDFIGTS NR.</small>																		
CUSTOMER <small>KUNDE</small> HW INOX GmbH /Anlieh.ex Hafen Rehhecke 80herstraße 113 D - 40885 Ratingen-Linorf ALEMANIA			OUR ORDER N° <small>UNSERE AUFT</small> SO 69096		YOUR ORDER N° <small>IRRE BESTELL</small> 4838/August18u.V.		STEELMAKING PROCESS <small>HERSTELLUNGSPROCESS</small> A.O.D.															
			TRADE MARK <small>STAMPFEL DES MERKZEUGS</small> 		INSPECTOR'S STAMP <small>STAMPFEL DES MERKSACHVERSTÄNDIGEN</small>																	
REQUIREMENTS <small>ANFORDERUNGEN</small> EN 10088-2:2014 EN-ISO-18286(Thickness Tolerances) ASTM A240Ed17/A480Ed17-ASME SecIIA SA240/SA480Ed17 EN 10088-2:2014 EN-ISO-18286(Thickness Tolerances) ASTM A240Ed17/A480Ed17-ASME SecIIA SA240/SA480Ed17				INTERGRANULAR CORROSION <small>INTERKRISTALLINE KORROSION</small> EN ISO 3651-2 ASTM-A-262 PRACTICA E EN ISO 3651-2 ASTM-A-262 PRACTICA E		GRADE <small>WERKSTOFF</small> Acx 240 1.4401 Acx 240 TP-316 Acx 240 1.4404 Acx 240 TP-316L	FINISH <small>AUSFÜHRUNG</small> 1D NPI 1D NPI															
COIL / BOX <small>COIL/KISTE</small>		CONTENT <small>INHALT</small>		DIMENSIONS (mm) <small>ABMESSUNGEN</small>			MARKS <small>POS.</small>	QUANTITY <small>STÜCKZAHL</small>	TEST N° <small>PROBE NR.</small>													
E9055D E9055D		05T5HA JC 05T5HA JD		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>THICKNESS</th> <th>WIDTH</th> <th>LENGTH</th> </tr> <tr> <th><small>DICKE</small></th> <th><small>BREITE</small></th> <th><small>LÄNGE</small></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">15,000</td> <td style="text-align: center;">1250,00</td> <td style="text-align: center;">2500,00</td> </tr> <tr> <td style="text-align: center;">15,000</td> <td style="text-align: center;">1250,00</td> <td style="text-align: center;">2500,00</td> </tr> </tbody> </table>			THICKNESS	WIDTH	LENGTH	<small>DICKE</small>	<small>BREITE</small>	<small>LÄNGE</small>	15,000	1250,00	2500,00	15,000	1250,00	2500,00	1 1	1 1	05T5HA 05T5HA	C C
THICKNESS	WIDTH	LENGTH																				
<small>DICKE</small>	<small>BREITE</small>	<small>LÄNGE</small>																				
15,000	1250,00	2500,00																				
15,000	1250,00	2500,00																				
CHEMICAL ANALYSIS / CHEMISCH ZUSAMMENSETZUN																						
HEAT N° <small>SCHMELZE NR.</small> T5HA		C	CR	MN	MO	N	NI	P	S	SI												
		0,017	16,635	1,301	2,054	0,038	10,085	0,032	0,001	0,330												
MECHANICAL PROPERTIES / MECHANISCHE EIGENSCHAFTEN																						
TEST N° <small>PROBE NR.</small> 05T5HA		PROBE TYPE C T	Rm <small>N/mm2</small> 584,29	Rp 0.2 <small>N/mm2</small> 270,70	Rp 1.0 <small>N/mm2</small> 317,79	A50 <small>%</small> 57,80	A5 <small>%</small> 56,80	HRB 85,00	A200 <small>%</small> 54,80													
REMARKS / BEOBACHTUNGEN The delivery is in accordance with the order Temperatura de hipertemple entre 1050 y 1100 ° C. NACE-MR0175/ISO 15156-3:2009; NACE MR0103:2012 (Chem & Mech only). permeabilidad max. 1,1						SURFACE AND DIMENSIONAL CONTROL <small>OBERFLÄCHEN- UND ABMESSUNGSKONTROLLE</small> Satisfactory OHNE BEANSTANDUNG																
						WORK INSPECTOR <small>WERKSACHVERSTÄNDIGER</small>  A. Heredia																
						Palmones, 29 JUNIO 2018																

We certify that this document is a true and current copy of the original certificate provided by the supplier/producer. The document from which this copy has been taken can be inspected on request. Customer: CHARLES DAY (STEELS) LTD, Sheffield
 Despatched 10.09.2018 on Shipment 9900021127 Delivery 818873830 Customer Ref. 014096
 Stainless Steel 316 / 316L Quarto Plate
 EN 10088-2
 Hot Rolled
 15x1250x2500
 Batch: 0009396429



ACERINOX EUROPA FABRICA DEL CARPO DE GIBRALTAR PALMONES (LOS BARRIOS) CPNO. 424 - 956 62 92 00 FAX 424 - 956 62 92 11 P.O. BOX 8 1170 LOS BARRIOS (CADIZ) ESPAÑA		 by Accredited Body 0769-CFR-VAS-00530 VOP no. / 2015		INSPECTION CERTIFICATE ABNAHMEPRÜFZEUGNIS 3.1									
CUSTOMER KUNDE HW INOX GmbH /Anief.ex Hafen Rehhecke Böhlerstraße 113 D - 40885 Ratingen-Lintorf ALEMANNIA		OUR ORDER N° UNSERE AUFTR. SO 69096		YOUR ORDER N° IHRER BESTELL. 4838/August18u.V.		CERTIFICATE N° ZERTIFIKAT NR. F0 2018 24860 50001 Y							
REQUIREMENTS ANFORDERUNGEN EN 10088-4:2009 EN-ISO-18285(Thickness Tolerances)		INTERGRANULAR CORROSION INTERKRISTALLINE KORROSION		GRADE WERKSTOFF Acs 240 1.4404		FINISH AUSFÜHRUNG 1D							
COIL / BOX COIL/RISTE		CONTENT INHALT		DIMENSIONS (mm) ABMESSUNGEN			MARKS POS.		QUANTITY STÜCKZAHL		TEST N° PROBE NR.		
E9055D E9055D		05T5HA JC 05T5HA JD		THICKNESS DICKE 15,000 15,000			WIDTH BREITE 1250,00 1250,00			LENGTH LÄNGE 2500,00 2500,00			
							1 1			1 1		05T5HA 05T5HA	
CHEMICAL ANALYSIS / CHEMISCH ZUSAMMENSETZUN													
HEAT N° SCHWELZE NR.		C	CR	MN	MO	N	NI	P	S	SI			
REQUIREMENTS ANFORDERUNGEN		0,030	16,500 18,500	2,000 2,500	2,000 2,500	0,100	10,000 13,000	0,045	0,015	1,000			
T5HA		0,017	16,635	1,301	2,054	0,038	10,085	0,032	0,001	0,330			
MECHANICAL PROPERTIES / MECHANISCHE EIGENSCHAFTEN													
TEST N° PROBE NR.		PROBE STÜCK	Rm N/mm2	Rp 0.2 N/mm2	Rp 1.0 N/mm2	A5 %							
REQUIREMENTS ANFORDERUNGEN			520,00 670,00	220,00	260,00	45,00							
05T5HA		C T	584,29	270,70	317,79	56,80							
REMARKS / BEOBACHTUNGEN						SURFACE AND DIMENSIONAL CONTROL ÜBERFLÄCHEN UND ABMESSUNGSKONTROLLE							
The delivery is in accordance with the order permeabilidad max. 1,1						SATISFACTORY Ohne Beanstandung							
						WORK INSPECTOR WERKSACHEVERSTÄNDIGER							
						 A. Heredia							
						Palmones, 29 JUNIO 2018							