

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 19.03.2018 on Shipment 9900005044 Delivery 818041565 Customer Ref. 11080 Stainless Steel 316 / 316L Quarto Plate EN 10088-2 Hot Rolled 15x1250x2500 Batch: 0008530117



CERTIFICATE - ZEUGNIS - CERTIFICAT

Invoice No. Rechnung Nr. Page
 N° de facture Seite
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Business Unit / OCM
 BA Quarto Plate, Quarto Plate Europe

EN 10204 - 3.1
 17101224-EN-0
 Date Datum Date
 13-Oct-2017

Load, Ladung, Charge No. 159074
 Acknowledged ID, Bestätigung, Commande ID 300443409

Your ref. Ihre Ref., Votre ref. 4500956784		Requirements, Anforderungen, Exigences AD 2000 W2, W10 & EN10028-7, PED 2014/68/EU EN 10088-4:2009 EN 10088-2:14 ASME SA-240M Code Sect. II, Part A:2015 NACE MR0103 / ISO 17945:2015 ASTM A240M / NACE MR0175 / ISO 15156-3:16a/2015 Additional testing, see "Other information"	
Consignee, Empfänger, Lieu de livraison KLOECKNER METALS UK (BLACKBURN)		Grade, Werkstoff, Nuance 1.4401 1.4404 316 316L	
Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur	Process Erschmelzungsart Mode de fusion	Inspector's stamp Zeichen des Sachverständigen Poignon de l'expert	
	E+AOD		

Product, Erzeugnisform, Produit
 Stainless steel hot rolled, Plate, 1D/No.1, Cut edge

Line Reihe Ligne	Item Position Poste	Heat-Lot No Schmelz-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity/Unit, Menge/Einheit, Quantité/Unité
1	1	573629-337389:0	15,0 X 1250,0 X 2500,0 mm	6	

Plate No. Blech Nr. Tôle No
1 5863 2901-1,-2,-3,-4,-5,-6

Chemical composition - Chemische Zusammensetzung - Composition chimique %
 Heat - Schmelze - coulée No

	C	Si	Mn	P	S	Cr	Ni	Mo	N				
Min						16.5	10.0	2.00					
Max	0.030	0.75	2.00	0.045	0.015	18.0	13.0	2.50	0.10				
573629	0.017	0.47	1.26	0.033	0.001	16.9	10.1	2.04	0.05				

Distribution
 Certificate via e-Services

Direct: T = Transverse, L = Longitudinal
 Top/Bot: F = Front, B = Back
 Form: P = Flat, C = Round
 Location: 1 = Center, 2 = Close to Surface, 3 = Standard, 4 = At % of thickness

Test results - Prüfergebnisse - Résultats des essais (1N/mm² = 1MPa)

Corrosion
 EN ISO 3651-2 Method A
 Plate-no Result
 2901F OK

ASTM A262 Practice E
 Plate-no Result
 2901F OK

Mechanical properties
 Tensile testing/Hardness Rockwell B
 Plate-no Direct Top/Bot Location Form Temp. °C Rp 0,2 MPa Rp 1,0 MPa Rm MPa A5 % A50 % HRB HRB

Plate-no	Direct	Top/Bot	Location	Form	Temp. °C	Rp 0,2 MPa	Rp 1,0 MPa	Rm MPa	A5 %	A50 %	HRB
Min						220	260	670			95
Max						279	315	580	61	65	81
2901	T	F	2	P	20,0						

Other Information
 Heat treated at 1100°C and Quenched in water.
 Dimensional control, visual inspection and grade check (PMI): Approved

FLOW TECHNOLOGY LTD
 TEST CERTIFICATE
 VERIFIED TRUE
 COPY OF ORIGINAL

The results comply with the Requirements of the order - Die gestellten Anforderungen sind erfüllt - Les résultats sont conformes aux exigences de la commande

Outokumpu Stainless AB
 BA Quarto Plate, Quarto Plate Europe
 SE, 693 81 DEGERFORS
 SWEDEN
 Regoffice SWEDEN

VAT no: SE556001874801
 Regno: 556001-8748

Computer generated original
 Quality Inspector

 Per-Ove Enderdal

