

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: 0008530111



FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL



CERTIFICATE - ZEUGNIS - CERTIFICAT

Invoice No. / Rechnung Nr. / Page
 N° de facture / Page
 1/2

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

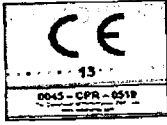
Your ref. Ihre Ref. / Votre ref. 4500956784		Requirements, Anforderungen, Exigences AD 2000 W2, W10 & EN10028-7, PED 2014/68/EU EN 10088-4:2009 EN 10088-2:14 ASME SA-240M Code Sect. II, Part A:2015 NACE MR0103 / ISO 17945:2015 ASTM A240M / NACE MR0175 / ISO 15156-3:16a/2015 Additional testing, see "Other information"											
Consignee, Empfänger, Lieu de livraison KLOECKNER METALS UK (BLACKBURN)		Grade, Werkstoff, Nuance 1.4401 316 1.4404 316L											
Mark of Manufacturer Zeichen des Lieferanten Signe de producteur 	Process Erhmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Pointon de l'expert 											
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										
1	1	573629-337389-0	15,0 X 1250,0 X 2500,0 mm										
Plate No. Blech Nr. Tôle No		5965 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													
Min													
Max													
2901	T	F	2	P	20.0	279	315	580	61	65		95	81
Other Information Heat treated at 1100°C and Quenched in water. Dimensional control, visual inspection and grade check (PMI): Approved													

Outokumpu Stainless AB
 BA Quarto Plate, Quarto Plate Europe
 SE-695 81 DEGERFORS
 SWEDEN
 Regoffice SWEDEN

VAT no: SE556001874801
 Regno: 556001-8748

Computer generated original
 Quality Inspector

 Per-Ove Enderdal



F13158
 7/16" JIC X 1/4" NPT M/M 90° ELBOW 10K 316L - BLOCK TYPE