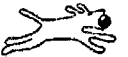




We certify that this document is a true and current copy of the original certificate provided by the supplier/producer. The document from which this copy has been taken can be inspected on request.  
 Despatched 05.04.2018 on Shipment 9900005194 Delivery & 18126335 Customer Ref. 11317  
 Stainless Steel 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**  
**EN 10204 - 3.1**  
**17101224-EN-0**

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

Date Datum Date  
 13-Oct-2017

Load, Ladung, Charge No  
 159074

Acknowledged ID, Bestätigung, Commande ID  
 300443409

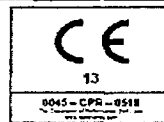
Your ref. Ihre Ref., Votre ref. <b>4500958784</b>		Requirements, Anforderungen, Exigences AD 2000 W2, W10 & EN10028-7, PED 2014/68/EU EN 10088-4:2009 EN 10088-2:14 ASME SA-240M Code Sect. II, Part A:2015 NACE MR0103 / ISO 17945:2015 ASTM A240M / NACE MR0175 / ISO 15156-3:16a/2015 Additional testing, see "Other information"											
Buyer, Besteller, Acheteur KLOECKNER METALS UK div of ASD LTD CENTRAL ACCOUNTS VALLEY FARM ROAD, STOURTON LS10 1SD, LEEDS ENGLAND													
Consignee, Empfänger, Lieu de livraison KLOECKNER METALS UK (BLACKBURN)													
Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur 	Process Erschmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Poignon de l'expert 	Grade, Werkstoff, Nuance 1.4401 316 1.4404 316L										
Product, Erzeugnisform, Produit Stainless steel hot rolled, Plate, 1D/No.1, Cut edge													
Line Reihe Ligne	Item Position Poste	Heat/Lot No Schmelze-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 1 5963 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													
Test results - Prüfergebnisse - Résultats des essais (N/mm² = MPa)													
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 220 260 520 45 40 Max 670 580 61 65 95 81 2901 T F 2 P 20,0 279 315 580													
Other Information Heat treated at 1100°C and Quenched in water. Dimensional control, visual inspection and grade check (PMI): Approved													
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





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high performance stainless steel

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Business Unit / OCM

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Certified acc. to AD2000-Guideline W0 and Pressure Equipment Directive (2014/68/EU) annex I, sec. 4.3 by the notified body for pressure equipment of the TÜV NORD Systems notified body, reg.-no. 0045 Construction Products Regulation (305/2011/EU) The Declaration of Performance (DoP), see [www.outokumpu.com](http://www.outokumpu.com)

Additional testing:  
ASTM A262 Practice E

Tolerance	Standard	Class
Flatness tolerance	EN 18286/A480/M/EN 10029	ISO 18286 N/A480/M/EN 10029 N
Length	EN 18286/A480/M/EN 10029	ISO 18286 A/A480/M/EN 10029
Thickness	EN 18286/A480/M/EN 10029	ISO 18286/A480/M/EN 10029 B
Width	EN 18286/A480/M/EN 10029	ISO 18286 A/A480/M/EN 10029

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

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