



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**

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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

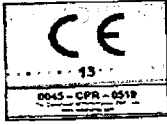
Acknowledged ID, Bestätigung, Commande ID  
300443409

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 Erwärmungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Poinçon 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		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					
Certificate via e-Services													
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							220	260	670	45	40	95	81
Max									580	61	65		
2901		T	F	2	P	20,0	279	315					
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



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

Stoelckner metals

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**outokumpu**  
high performance stainless steel



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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

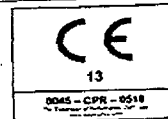
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Quality inspector

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0045 - CPR - 0518