

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 05.04.2018 on Shipment 9900005194 Delivery 818126335 Customer Ref. 11317
 Stainless Steel 316 / 316L Quarto Plate
 EN 10088-2
 Hot Rolled
 15x1250x2500
 Batch: 0008530111

9090 

S0127771940003-S → 0008530110-2 → 573629



CERTIFICATE - ZEUGNIS - CERTIFICAT

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high performance stainless steel

EN 10204 - 3.1

17101428-EN-0



Business Unit / QCM

BA Quarto Plate, Quarto Plate Europe

Date / Datum / Date
 16-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"	
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 Poinçon 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 Schmelz-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity/unit, Menge/Einheit, Quantité/Unité
1	1	573629-337158-0	15,0 X 1250,0 X 2500,0 mm	6	

Plate No., Blech Nr., Tôle No
1 5963 1801-1,-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 1/4 of thickness

Test results - Prüfergebnisse - Résultats des essais (TN/mm² = 1MPa)
Corrosion
 ASTM A262 Practice E
 Plate-no Result
 1801F OK
 EN ISO 3651-2 Method A
 Plate-no Result
 1801F OK


FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

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
Min						220	260	520	45	40	
Max								670			95
1801	T	F	2	P	20,0	278	307	560	64	68	81

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
 Regofica: SWEDEN
 V.A.T no: SE556001874801
 Regno: 556001-8748

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 Quality Inspector

 Per-Ove Enderdal



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 EN 10088-2
 Hot Rolled
 15x1250x2500
 Batch: 0008530111



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EN 10204 - 3.1

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Business Unit / QCM

BA Quarto Plate, Quarto Plate Europe

Date Datum Date

16-Oct-2017

Load, Ladung, Charge No

159074

Acknowledged ID, Bestätigung, Commande ID

300443409

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

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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 BA Quarto Plate, Quarto Plate Europe
 SE-, 693 81 DEGERFORS
 SWEDEN
 Regoffice: SWEDEN

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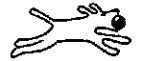
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Business Unit / OCM: BA Quarto Plate, Quarto Plate Europe
 Date / Datum / Date: 13-Oct-2017
 Load, Ladung, Charge No: 159074
 Acknowledged ID, Bestätigung, Commende ID: 300443409

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"	
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Consignee, Empfänger, Lieu de livraison KLOECKNER METALS UK (BLACKBURN)			
Mark of Manufacturer Zeichen des Lieferanten Signe de producteur W	Process Erschmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Poinçon de l'expert DJ 2	Grade, Werkstoff, Nuance 1.4401 316 1.4404 316L

Product, Erzeugnisform, Produit
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Plate No. Blech Nr. Tôle No
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Chemical composition - Chemische Zusammensetzung - Composition chimique %
 Heat - Schmelz - 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

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Test results - Prüfergebnisse - Résultats des essais (1 N/mm² = 1 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
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Outokumpu Stainless AB
 BA Quarto Plate, Quarto Plate Europe
 SE - 693 81 DEGERFORS
 SWEDEN
 Regoffice SWEDEN

V A T no: SE566001874801
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outokumpu
 high performance stainless steel



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Business Unit / QCM

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EN 10204 - 3.1

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 ASTM A262 Practice E

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