



P O Box 133 Middelburg 1050 South Africa  
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 Website: http://www.columbusstainless.co.za  
 A Subsidiary of ACERINOX S.A.

# INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

**CERTIFICATE NO**  
**3447357PED**

**Rev**  
**1**

**ISSUE DATE**  
**2020-09-11**

MANUFACTURER'S MARK		INSPECTOR'S STAMP		MELTING PROCESS	<b>E/AOD</b>
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<b>CUSTOMER</b> OVAKO METALS OY AB ATOMITIE 5A, HELSINKI FI 00370  Finland	<b>ORDER No.</b> PW03565	<b>ITEM No.</b> 1	<b>DELIVERY NOTE No.</b> DEL165507
	<b>CUSTOMER ORDER No.</b> 015980-1	<b>PART No.</b> N/A	
	<b>REQUIREMENTS</b> AD 2000 W2 AD 2000 W10		

SPECIFICATIONS	MATERIAL GRADE	CASE	MATERIAL	MASS	QTY
EN 10088-2-2014	1.4404	1.4401	OHRP011809 4260324CABA	1638 Kg	3
EN 10028-7-2016	1.4404	1.4401	OHRP011808 4260324CABB	1640 Kg	3
ASTM A240 / A240M-19	316	316L			
ASME BPVC IIA SA240 / SA240M-2019	316	316L			

<b>TOLERANCE</b> ISO 18286 ; ASTM A480/A480M ; ASME SA480/SA480M	<b>HEAT No.</b> 426032	<b>TYPE</b> X2CrNiMo 17-12-2
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<b>PRODUCT</b> 1D ; No. 1 Hot rolled, annealed & pickled stainless steel plate	<b>QUANTITY</b> 6	<b>TOTAL MASS</b> 3278 Kg
	<b>DIMENSIONS</b> 15 mm x 1500 mm x 3000 mm	

<b>CHEMICAL COMPOSITION(%)</b>													
	C	S	P	Mn	Si	Cr	Ni	Mo	N				
Min						16.5	10.0	2.00					
Max	0.030	0.015	0.045	2.00	0.75	18.0	13.0	2.50	0.10				
Heat	0.022	0.001	0.030	1.27	0.43	16.7	10.0	2.02	0.05				

<b>MECHANICAL PROPERTIES</b>													
TEMPERATURE	DIRECTION	POSITION	Rp0.2 MPa	Rp1.0 MPa	Rm MPa	A50 %	A5 %	HRBW HRBW					
Ambient	Transverse	Requirement Min	220	260	520	40	45						
		Max			670			95					
Ambient	Transverse	Head	275	317	588	57	53	83					
		Tail											

<b>INTERGRANULAR CORROSION</b>	Columbus Stainless (Pty) Ltd. certifies that the analysis and material on this certification is correct and meets the specifications stated. This document is issued without alteration or erasure and may only be reproduced in full. Made and melted in South Africa. This Material is PMI Tested. Visual and dimensional control: no exceptions. The delivery is in accordance with the order. Material not weld repaired This material is free from mercury contamination. The radiation level exhibited by this material is not greater than the normal background level. This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2015 & NACE MR0103 / ISO 17945 : 2015 Columbus Stainless is ISO 9001:2015 & ISO 14001:2015 Certified.  Certified by TUV Rheinland to European Directive 2014/68/EU for Pressure Equipment. Certificate no: 01 202 ZA/Q-00 0001												
	<b>HEAT TREATMENT (SOLUTION ANNEALED)</b>												
	Anneal °C	Quench											
1050 - 1100	AIR/ WATER SPRAY												

Permeability 1.1 Max  
 Marking: Material Code, MPO No, Manufacturers Brand, Inspectors Stamp

**COLUMBUS STAINLESS (PTY) LTD**  
 Hendrina Road, Middelburg  
 Mpumalanga, South Africa

Q. Snyman  
**WORKS EXPERT**



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# INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204



ZA 0035  
20  
0035-CPR-A304



Authorised Representative  
Acerinox Europa, S.A.U.  
C/ Santiago de Compostela no 100. 28035

Madrid  
Spain  
Tel: 91 398 51 00/ 91 398 51

Corrosion Resistant Steel for building construction or civil engineering.  
**Regulated substances: No performance determined**

**CERTIFICATE NO**  
**3447357CPR**

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**1**

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MANUFACTURER'S MARK



INSPECTOR'S STAMP



MELTING PROCESS

**E/AOD**

**CUSTOMER**

OVAKO METALS OY AB  
ATOMITIE 5A, HELSINKI FI 00370  
  
Finland

**ORDER No.**

PW03565

**ITEM No.**

1

**DELIVERY NOTE No.**

DEL165507

**CUSTOMER ORDER No.**

015980-1

**PART No.**

N/A

**REQUIREMENTS**



**SPECIFICATIONS**

EN 10088-4-2009

**MATERIAL GRADE**

1.4404 1.4401

**CASE**

OHRP011809 4260324CABA  
OHRP011808 4260324CABB

**MATERIAL**

**MASS QTY**

1638 Kg 3  
1640 Kg 3

**TOLERANCE** EN 10029

1D

**PRODUCT**  
Hot rolled, annealed & pickled stainless steel plate

**HEAT No.** 426032

**TYPE** X2CrNiMo 17-12-2

**QUANTITY** 6

**TOTAL MASS** 3278 Kg

**DIMENSIONS** 15 mm x 1500 mm x 3000 mm

**CHEMICAL COMPOSITION(%)**

	C	S	P	Mn	Si	Cr	Ni	Mo	N										
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**MECHANICAL PROPERTIES**

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		Max			670														
Ambient	Transverse	Head	275	317	588	53													
		Tail																	

**INTERGRANULAR CORROSION**

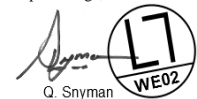
Columbus Stainless (Pty) Ltd. certifies that the analysis and material on this certification is correct and meets the specifications stated.  
This document is issued without alteration or erasure and may only be reproduced in full.  
Made and melted in South Africa. This Material is PMI Tested.  
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Material not weld repaired  
This material is free from mercury contamination.  
The radiation level exhibited by this material is not greater than the normal background level.  
This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2015 & NACE MR0103 / ISO 17945 : 2015  
Columbus Stainless is ISO 9001:2015 & ISO 14001:2015 Certified.  
For the Declaration of Performance, please visit [www.columbusstainless.co.za/declaration.html](http://www.columbusstainless.co.za/declaration.html)

**HEAT TREATMENT (SOLUTION ANNEALED)**

Anneal °C	Quench
1050 - 1100	AIR/ WATER SPRAY

Permeability 1.1 Max  
Marking: Material Code, MPO No, Manufacturers Brand, Inspectors Stamp

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