



**COLUMBUS STAINLESS**  
—(Pty) Ltd—

P O Box 133 Middelburg 1050 South Africa  
Switchboard +27 13 247 9111 Fax +27 13 240 1681  
Website: <http://www.columbusstainless.co.za>  
A Subsidiary of ACERINOX S.A.

### INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

**CERTIFICATE NO**  
**3551301PED**

**Rev**  
**1**

**ISSUE DATE**  
**2022-02-14**

MANUFACTURER'S MARK		INSPECTOR'S STAMP		MELTING PROCESS	<b>E/AOD</b>
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<b>CUSTOMER</b>  TIBNOR OY ASPONKATU 2 FIN-04400 JARVENPAA  Finland	<b>ORDER No.</b> PW04341	<b>ITEM No.</b> 9	<b>DELIVERY NOTE No.</b> DEL209316
	<b>CUSTOMER ORDER No.</b> 4501313397	<b>PART No.</b> N/A	
	<b>REQUIREMENTS</b> AD 2000 W2 AD 2000 W10		

<b>SPECIFICATIONS</b> EN 10088-2-2014 EN 10028-7-2016 ASTM A240 / A240M-20a ASME BPVC IIA SA240 / SA240M-2019	<b>MATERIAL GRADE</b> 1.4404 / 1.4401 1.4404 / 1.4401 316L / 316 316L / 316	<b>CASE MATERIAL</b> QCP5000330 4337912CAB	<b>MASS QTY</b> 8190 Kg 1
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<b>TOLERANCE</b> ISO 9445-2 ; ASTM A480/A480M ; ASME SA480/SA480M 2B ; No. 2B	<b>HEAT No.</b> 433791	<b>TYPE</b> X2CrNiMo 17-12-2
<b>PRODUCT</b> Cold rolled, heat treated, pickled & skin passed stainless steel coil	<b>QUANTITY</b> 1	<b>TOTAL MASS</b> 8190 Kg
<b>DIMENSIONS</b> 3 mm x 1500 mm x COIL		

CHEMICAL COMPOSITION(%)										
	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	0.024	0.001	0.028	1.28	0.58	16.9	10.1	2.06	0.04	

MECHANICAL PROPERTIES										
TEMPERATURE	DIRECTION	POSITION	Rp0.2 MPa	Rp1.0 MPa	Rm MPa	A50 %	A5 %	HRBW HRBW		
Ambient	Transverse	Requirement Min Max	240	270	530 680	40	40	95		
Ambient	Transverse	Head Tail	325	357	631	50	53	84 84		

<b>INTERGRANULAR CORROSION</b> TEST: ASTM A262 Practice E RESULT: PASS										
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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. 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 : 2020 & 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 2627 ZA/M1-2100010.00										
<b>HEAT TREATMENT (SOLUTION ANNEALED)</b> Anneal °C: 1050 - 1100 Quench: AIR/ WATER SPRAY										

Number on material might differ from this document due to a split in material after marking, with a character and/or number added to the end.	<b>COLUMBUS STAINLESS (PTY) LTD</b> Hendrina Road, Middelburg Mpumalanga, South Africa   <b>WORKS EXPERT</b>
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Authorised Representative



Acerinox Europa, S.A.U.

ZA 0035 C/ Santiago de Compostela no 100. 28035  
13 Madrid  
0035-CPR-A304 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** 3551301CPR  
**Rev** 1  
**ISSUE DATE** 2022-02-14

MANUFACTURER'S MARK



INSPECTOR'S STAMP



MELTING PROCESS

**E/AOD**

**CUSTOMER**

TIBNOR OY  
ASPONKATU 2  
FIN-04400 JARVENPAA  
  
Finland

**ORDER No.**

PW04341

**ITEM No.**

9

**DELIVERY NOTE No.**

DEL209316

**CUSTOMER ORDER No.**

4501313397

**PART No.**

N/A

**REQUIREMENTS**



**SPECIFICATIONS**

EN 10088-4-2009

**MATERIAL GRADE**

1.4404 / 1.4401

**CASE MATERIAL**

QCP5000330 4337912CAB

**MASS QTY**

8190 Kg 1

**TOLERANCE** ISO 9445-2

2B

**PRODUCT** Cold rolled, heat treated, pickled & skin passed stainless steel coil

**HEAT No.** 433791

**TYPE** X2CrNiMo 17-12-2

**QUANTITY** 1

**TOTAL MASS** 8190 Kg

**DIMENSIONS** 3 mm x 1500 mm x COIL

**CHEMICAL COMPOSITION(%)**

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

TEMPERATURE	DIRECTION	POSITION	Rp0.2 MPa	Rp1.0 MPa	Rm MPa	A5 %												
Ambient	Transverse	Requirement Min	240	270	530	40												
		Max			680													
Ambient	Transverse	Head	325	357	631	53												
		Tail																

**INTERGRANULAR CORROSION**

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**HEAT TREATMENT (SOLUTION ANNEALED)**

Anneal °C

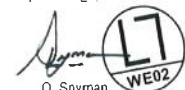
Quench

1050 - 1100

AIR/ WATER SPRAY

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