



COLUMBUS STAINLESS
(Pty) Ltd

P O Box 133 Middelburg 1050 South Africa
Switchboard +27 13 247 9111 Fax +27 13 246 1681
Website: <http://www.columbusstainless.co.za>
A Subsidiary of ACERINOX S.A.

INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204

CERTIFICATE NO
3529614PED

Rev
1

ISSUE DATE
2021-11-03

MANUFACTURER'S MARK		INSPECTOR'S STAMP		MELTING PROCESS	E/AOD
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CUSTOMER TIBNOR OY ASPONKATU 2 FIN-04400 JARVENPAA Finland	ORDER No. PW04278	ITEM No. 8	DELIVERY NOTE No. DEL199967
	CUSTOMER ORDER No. 4501303931	PART No. N/A	
	REQUIREMENTS AD 2000 W2 AD 2000 W10		

SPECIFICATIONS	MATERIAL GRADE	CASE MATERIAL	MASS QTY
EN 10088-2-2014	1.4301	PCP1004584 4323602B	10930 Kg 1
EN 10028-7-2016	1.4301	<i>BA14</i>	
ASTM A240 / A240M-20a	304		
ASME BPVC IIA SA240 / SA240M-2019	304		

TOLERANCE ISO 9445-2 ; ASTM A480/A480M ; ASME SA480/SA480M 2B ; No. 2B	HEAT No. 432360	TYPE X5CrNi 18-10
PRODUCT Cold rolled, heat treated, pickled & skin passed stainless steel coil	QUANTITY 1	TOTAL MASS 10930 Kg
DIMENSIONS 4 mm x 1500 mm x COIL		

CHEMICAL COMPOSITION(%)										
	C	S	P	Mn	Si	Cr	Ni	N		
Min						18.0	8.0			
Max	0.070	0.015	0.045	2.00	0.75	19.5	10.5	0.10		
Heat	0.032	0.001	0.031	1.22	0.31	18.2	8.1	0.07		

MECHANICAL PROPERTIES										
TEMPERATURE	DIRECTION	POSITION	Rp0.2 MPa	Rp1.0 MPa	Rm MPa	A50 %	A5 %	HRBW HRBW		
Ambient	Transverse	Requirement Min	230	260	540	40	45			
		Max			750			92		
Ambient	Transverse	Head	297	330	643	51	56	86		
		Tail						84		

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. 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: 01 202 ZA/Q-00 0001
TEST	RESULT	
ASTM A262 Practice E	PASS	
HEAT TREATMENT (SOLUTION ANNEALED)		
Anneal °C	Quench	
1050 - 1100	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.	COLUMBUS STAINLESS (PTY) LTD Hendrina Road, Middelburg Mpumalanga, South Africa O Snyman WORKS EXPERT
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COLUMBUS STAINLESS
— 1951/1994 —

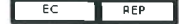
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INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204



Authorised Representative



ZA 0035 21
0035-CPR-A304
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

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MANUFACTURER'S MARK



INSPECTOR'S STAMP



MELTING PROCESS

E/AOD

CUSTOMER

TIBNOR OY
ASPONKATU 2
FIN-04400 JARVENPAA

Finland

ORDER No.

PW04278

ITEM No.

8

DELIVERY NOTE No.

DEL199967

CUSTOMER ORDER No.

4501303931

PART No.

N/A

REQUIREMENTS



SPECIFICATIONS

EN 10088-4-2009

MATERIAL GRADE

1.4301

CASE

PCP1004584

MATERIAL

4323602B

MASS QTY

10930 Kg 1

TOLERANCE ISO 9445-2

2B

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

HEAT No. 432360

TYPE X5CrNi 18-10

QUANTITY 1

TOTAL MASS 10930 Kg

DIMENSIONS 4 mm x 1500 mm x COIL

CHEMICAL COMPOSITION(%)

	C	S	P	Mn	Si	Cr	Ni	N											
Min						17.5	8.0												
Max	0.070	0.015	0.045	2.00	1.00	19.5	10.5	0.10											
Heat	0.032	0.001	0.031	1.22	0.31	18.2	8.1	0.07											

MECHANICAL PROPERTIES

TEMPERATURE	DIRECTION	POSITION	Rp0.2 MPa	Rp1.0 MPa	Rm MPa	A5 %													
Ambient	Transverse	Requirement Min	230	260	540	45													
		Max			750														
Ambient	Transverse	Head	297	330	643	56													
		Tail																	

INTERGRANULAR CORROSION

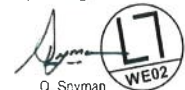
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HEAT TREATMENT (SOLUTION ANNEALED)

Anneal °C	Quench
1000 - 1100	AIR/ WATER SPRAY

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



Q Snyman
WORKS EXPERT