



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
3581751PED

Rev
1

ISSUE DATE
2022-07-26

MANUFACTURER'S MARK		INSPECTOR'S STAMP		MELTING PROCESS	E/AOD
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CUSTOMER ALUMECO FINLAND OY/AB KAVIOKUJA 5, TURKU, 20380 Finland	ORDER No. PW04585	ITEM No. 6	DELIVERY NOTE No. DEL222485
	CUSTOMER ORDER No. 120584889	PART No. N/A	
	REQUIREMENTS AD 2000 W2 AD 2000 W10		

SPECIFICATIONS	MATERIAL GRADE	CASE	MATERIAL	MASS	QTY
EN 10088-2-2014	1.4301 / 1.4307	QPAS027344	4352364D01A01A01	882 Kg	5
EN 10028-7-2016	1.4301 / 1.4307				
ASTM A240 / A240M-20a	304L / 304				
ASME BPVC IIA SA240 / SA240M-2021	304L / 304				

TOLERANCE ISO 9445-2 ; ASTM A480/A480M ; ASME SA480/SA480M 2B ; No. 2B	HEAT No. 435236	TYPE X5CrNi 18-10
PRODUCT Cold rolled, heat treated, pickled & skin passed stainless steel sheet	QUANTITY 5	TOTAL MASS 882 Kg
	DIMENSIONS 5 mm x 1500 mm x 3000 mm	

CHEMICAL COMPOSITION(%)													
	C	S	P	Mn	Si	Cr	Ni	N					
Min						18.0	8.0						
Max	0.030	0.015	0.045	2.00	0.75	19.5	10.5	0.10					
Heat	0.026	0.002	0.032	1.19	0.46	18.3	8.1	0.08					

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			700			92					
Ambient	Transverse	Head	298	338	652	50	56	84					
		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 2627 ZA/M1-2100010.00
TEST	RESULT	
ASTM A262 Practice E	PASS	
HEAT TREATMENT (SOLUTION ANNEALED)		
Anneal °C	Quench	
1050 - 1100	AIR/ WATER SPRAY	

Permeability 1.1 Max
 Marking: Material Code, Material No, Manufacturing Brand
 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

Q. Snyman

WORKS EXPERT



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ACCORDING TO EN 10204



ZA 0035
13
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

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MELTING PROCESS

E/AOD

CUSTOMER

ALUMECO FINLAND OY/AB
 KAVIOKUJA 5, TURKU, 20380
 Finland

ORDER No.

PW04585

ITEM No.

6

DELIVERY NOTE No.

DEL222485

CUSTOMER ORDER No.

120584889

PART No.

N/A

REQUIREMENTS



SPECIFICATIONS

EN 10088-4-2009

MATERIAL GRADE

1.4301 / 1.4307

CASE

QPAS027344

MATERIAL

4352364D01A01A01

MASS QTY

882 Kg 5

TOLERANCE ISO 9445-2

2B

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

HEAT No. 435236

TYPE X5CrNi 18-10

QUANTITY 5

TOTAL MASS 882 Kg

DIMENSIONS 5 mm x 1500 mm x 3000 mm

CHEMICAL COMPOSITION(%)

	C	S	P	Mn	Si	Cr	Ni	N											
Min						17.5	8.0												
Max	0.030	0.015	0.045	2.00	1.00	19.5	10.5	0.10											
Heat	0.026	0.002	0.032	1.19	0.46	18.3	8.1	0.08											

MECHANICAL PROPERTIES

TEMPERATURE	DIRECTION	POSITION	Rp0.2 MPa	Rp1.0 MPa	Rm MPa	A5 %													
Ambient	Transverse	Requirement Min	230	260	540	45													
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		Tail																	

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 Columbus Stainless is ISO 9001:2015 & ISO 14001:2015 Certified.
 For the Declaration of Performance, please visit www.columbusstainless.co.za/declaration.html

HEAT TREATMENT (SOLUTION ANNEALED)

Anneal °C

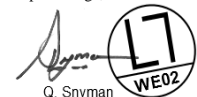
Quench

1000 - 1100

AIR/ WATER SPRAY

Permeability 1.1 Max
 Marking: Material Code, Material No, Manufacturing Brand
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