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 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
3571768PED

Rev
1

ISSUE DATE
2022-05-31

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. 4	DELIVERY NOTE No. DEL217586
	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	QPAS024970	4356394A03	1451 Kg	14
EN 10028-7-2016	1.4301 / 1.4307	QPAS024968	4356394A01	1460 Kg	14
ASTM A240 / A240M-20a	304L / 304	QPAS024969	4356394A02	1461 Kg	14
ASME BPVC IIA SA240 / SA240M-2021	304L / 304	QPAS024971	4356394A04	1453 Kg	14
		QPAS024972	4356394A05	1455 Kg	14
		QPAS024973	4356394A06	1453 Kg	14
		QPAS024974	4356394A07	1460 Kg	14
		QPAS024975	4356394A08	1456 Kg	14

TOLERANCE ISO 9445-2 ; ASTM A480/A480M ; ASME SA480/SA480M 2B ; No. 2B	HEAT No. 435639	TYPE X5CrNi 18-10
PRODUCT Cold rolled, heat treated, pickled & skin passed stainless steel sheet	QUANTITY 112	TOTAL MASS 11649 Kg
DIMENSIONS 3 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	0.025	0.001	0.031	1.21	0.44	18.1	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			700			92					
Ambient	Transverse	Head	336	372	670	50	54	89					
		Tail						87					

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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ZA 0035
13
0035-CPR-A304

Authorised Representative
EC REP

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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MANUFACTURER'S MARK



INSPECTOR'S STAMP



MELTING PROCESS

E/AOD

CUSTOMER

ALUMECO FINLAND OY/AB
KAVIOKUJA 5, TURKU, 20380

Finland

ORDER No.

PW04585

ITEM No.

4

DELIVERY NOTE No.

DEL217586

CUSTOMER ORDER No.

120584889

PART No.

N/A

REQUIREMENTS



SPECIFICATIONS

EN 10088-4-2009

MATERIAL GRADE

1.4301 / 1.4307

CASE

MATERIAL

MASS QTY

QPAS024969	4356394A02	1461 Kg	14
QPAS024968	4356394A01	1460 Kg	14
QPAS024970	4356394A03	1451 Kg	14
QPAS024971	4356394A04	1453 Kg	14
QPAS024972	4356394A05	1455 Kg	14
QPAS024973	4356394A06	1453 Kg	14
QPAS024974	4356394A07	1460 Kg	14
QPAS024975	4356394A08	1456 Kg	14

TOLERANCE ISO 9445-2

2B

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HEAT No. 435639

TYPE X5CrNi 18-10

QUANTITY 112

TOTAL MASS 11649 Kg

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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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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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