

INSPECTION CERTIFICATE 3.1

To: EN 10204



**COLUMBUS
STAINLESS**
[Pty] Ltd
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South Africa
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A Subsidiary of ACERINOX, S.A.



ZA 0045
13
0045-CPR-1805

Authorized Representative



Acerinox Europa, S.A.U.
C/ Santiago de Compostela no 100. 28035
Madrid
Spain
Tel: 91 398 51 00 / 91 398 51 02

Corrosion Resistant Steel for building construction or
civil engineering.

Regulated substances: No performance determined

No. 2916744 - 1 1 / 1

Date 2015/08/31

MANUFACTURER'S MARK



MELTING PROCESS
E/AOD

CUSTOMER
BE GROUP OY
LOTILA KIRKKAAT/OVET 5-7/
VANHANRADANKATU 42
15522 LAHTI
Finland

O/A No.
PW00845

ITEM No.
006



CUSTOMER ORDER No.
P034748

REQUIREMENTS
AD 2000 W2
AD 2000 W10

PRODUCT
No:1
1D: Hot rolled, Plate / Coil

HEAT No.

401627

MPO No. *

4016270/1

* The first six numbers are the heat number. The seventh character is the slab indicator and any further characters represent a part of the slab with common mechanical properties.

SPECIFICATIONS	MATERIAL CODE	CASE
EN 10088-2/14 HOT ROLLED COIL/PLATE	1.4307 1.4301	JCPL19218
EN 10028-7 2007 HOT ROLLED COIL & PLATE	1.4307 1.4301	JCPL19219
ASTM A240 / A240M -15A	304L 304	JCPL19220
ASME 2013 SECTION II PART A SA240	304L 304	JCPL19221
EN 10088-4 2009 HOT ROLLED COIL / PLATE	1.4307 1.4301	JCPL19223
		JCPL19224
		JCPL19225

TOLERANCE
ISO9444-02/09 1L/R Coil/Plate-ASTMA480/A480M-ASMESA480/SA480M

Delivery Note Number:
27649

DIMENSIONS
6.000 mm x 1500 mm x 3000 mm

TYPE
X2CRNI 18 9

QUANTITY
35

MASS
7427 kg

%	REQUIREMENT		LADLE
	MIN	MAX	
C		0.030	0.026
S		0.015	0.003
P		0.045	0.025
Mn		2.00	1.15
Si		1.00	0.32
Ni	8.0	10.5	8.0
Cr	17.5	19.5	18.0
Mo			
Ti			
N		0.11	0.07
V			
Co			
Cu			
Nb			
Sn			
Al			
B			

MECHANICAL PROPERTIES										
Test Direction	Test Pos.	Rp0.2 0.2% Proof Stress (MPa)	Rp1.0 1% Proof Stress (MPa)	Rm UTS (MPa)	A 5 (% Elongation)	A 50 (% Elongation)	Hardness HRB	Bend Test	Impact Test ISO V	Z (% Reduction of Area)
Transverse	Ambient Temperature	Head	324	376	655	50	50	88		
		Tail	323	368	678	49	49	89		
	Req @ °C									
	Req @ °C									
ADDITIONAL TEST							INTERGRANULAR CORROSION			
TEST NAME		RESULT	TEST NAME		RESULT	SPECIFICATION		RESULT		
						ASTM A262-13:E		Pass		
						ISO 3651-2 METHOD A		Pass		

This material is free from mercury contamination. The radiation level exhibited by this material is not greater than the normal background level.
This document is issued without alteration or erasure and may only be reproduced in full.
Visual and dimensional control: no exceptions. The delivery is in accordance with the order. Made and melted in South Africa.
This Material has been PMI Tested.
This material meets the Hardness requirement of Nace MR-0175/ISO 15156-3:2009 & MR-0103-2012
Columbus Stainless (Pty) Ltd. certifies that the analysis and material on this certification is correct and meets the specifications stated.
Columbus Stainless is ISO 9001:2008 & ISO 14001:2004 Certified.

For the Declaration of Performance, please visit <http://www.columbusstainless.co.za/declaration>
Certified by TUV Rheinland to European Directive 97/23/EC for Pressure Equipment. Certificate no. 01 202 ZA/Q-00 0001

HEAT TREATMENT (Solution Annealed)

Anneal °C	Quench
1050 - 1100	AIR/SPRAY

Permeability 1.1 Max

COLUMBUS STAINLESS [Pty] Ltd
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Mpumalanga, South Africa

G. van Niekerk
WORKS EXPERT