



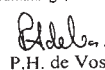


INSPECTION CERTIFICATE 3.1 To: EN 10204	 COLUMBUS STAINLESS (Pty) Ltd Columbus Stainless (Pty) Ltd P O Box 133 Middelburg 1050 South Africa Switchboard: +27 13 247 9111 Fax: +27 13 246 1681 Website: http://www.columbus.co.za A Subsidiary of ACERINOX, S.A.	 Authorised Representative EC REP Acerinox Europa, S.A.U. C/ Santiago de Compostela no 100. 28035 Madrid Spain Tel: 91 398 51 00 / 91 398 51 02 ZA 0045 13 0045-CPR-1805 Corrosion Resistant Steel for building construction or civil engineering. Regulated substances: No performance determined	No. 2764981 - 1 1 / 1 Date 2014/10/14 MANUFACTURER'S MARK  MELTING PROCESS E/AOD											
CUSTOMER BE GROUP OY LOTILA KIRKKAAT/OVET 5-7/ VANHANRADANKATU 42 15522 LAHTI Finland	O/A No. DW00243 ITEM No. 005 CUSTOMER ORDER No. P025258 REQUIREMENTS AD 2000 W2 AD 2000 W10 Certified by TUV Rheinland to European Directive 97/23/EC for Pressure Equipment. Certificate no: 01 202 ZA/O-00 0001	INSPECTOR'S STAMP  334												
PRODUCT No:1 1D: Hot rolled, heat treated, pickled	HEAT No. 397718	MPO No. * 3977181/2												
SPECIFICATIONS MATERIAL CODE		CASE												
EN 10088-2 2005 HOT ROLLED COIL & PLATE		1.4307	1.4301	ICPL03206										
EN 10028-7 2007 HOT ROLLED COIL & PLATE		1.4307	1.4301	ICPL03207										
ASTMA240/A240M-14		304L	304	ICPL03208										
ASME 2013 SECTION II PART A SA240		304L	304	ICPL03209										
EN 10088-4 2009 HOT ROLLED COIL / PLATE		1.4307	1.4301	ICPL03211										
				ICPL03212										
				ICPL03213										
				ICPL03215										
				ICPL03216										
				ICPL03217										
TOLERANCE ISO9444-02/09 H/R Coil/Plate-ASTMA480/A480M-ASMESA480/SA480M		Delivery Note Number: 70590												
DIMENSIONS 8.000 mm x 1500 mm x 3000 mm		TYPE X5CRNI 18-10 X2CRNI 18 9		QUANTITY 40 MASS 11162 kg										
CHEMICAL ANALYSIS			MECHANICAL PROPERTIES											
%	REQUIREMENT		LADLE	Test Direction Transverse	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)
	MIN	MAX												
C		0.030	0.026	Ambient Temperature	Head	338	377	655	52	53	90			
S		0.015	0.002		Tail	346	392	658	51	52	88			
P		0.045	0.024	Req @ °C										
Mn		2.00	1.17											
Si		1.00	0.43	Req @ °C										
Ni	8.0	10.5	8.0											
Cr	17.5	19.5	18.0											
Mo														
Ti														
N		0.11	0.07	ADDITIONAL TEST				INTERGRANULAR CORROSION						
V				TEST NAME	RESULT	TEST NAME	RESULT	SPECIFICATION		RESULT				
Co								ASTM A262-13:E		Pass				
Cu								ISO 3651-2 METHOD A		Pass				
Nb														
Sn														
Al				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 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.										
HEAT TREATMENT (Solution Annealed)														
Anneal °C		Quench												
1050 - 1100		AIR/SPRAY												
Permeability I.1 Max											COLUMBUS STAINLESS (Pty) Ltd Hendrina Road, Middelburg Mpumalanga, South Africa  P.H. de Vos WORKS EXPERT			