






<h1 style="margin: 0;">INSPECTION CERTIFICATE 3.1</h1>		 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. 2846333 - 1 1 / 1 Date 2015/04/20 MANUFACTURER'S MARK  MELTING PROCESS E/AOD								
To: EN 10204														
CUSTOMER BE GROUP OY LOTILA KIRKKAAT/OVET 5-7/ VANHANRADANKATU 42 15522 LAHTI Finland				O/A No. PW00475 ITEM No. 006 CUSTOMER ORDER No. P031014 REQUIREMENTS AD 2000 W2 AD 2000 W10		INSPECTOR'S STAMP 								
PRODUCT No:1 1D: Hot rolled, Plate / Coil				HEAT No. 399655 MPO No. * 3996551/3/0										
				* 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 PLATE		1.4307 1.4301		JCON15443										
EN 10028-7 2007 HOT ROLLED PLATE		1.4307 1.4301		JCON15444										
ASME 2013 SECTION II PART A SA240		304L 304		JCON15445										
ASTM A240 / A240M -15A		304L 304												
EN 10088-4 2009 HOT ROLLED PLATE		1.4307 1.4301												
TOLERANCE				Delivery Note Number:										
ISO18286-08-ASTMA480/480M-ASMESA480/480M-EN10029-B H/R PLATE				12008										
DIMENSIONS				TYPE		QUANTITY								
12.000 mm x 1500 mm x 3000 mm				X2CRNI 18 9		9								
						MASS								
						3908 kg								
CHEMICAL ANALYSIS			MECHANICAL PROPERTIES											
%	REQUIREMENT		LADLE	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)
	MIN	MAX												
C		0.030	0.022	Ambient Temperature	Head	264	322	637	55	58	83			
S		0.015	0.002		Tail	275	327	624	54	57				
P		0.045	0.021	Req @ °C										
Mn		2.00	1.14	Req @ °C										
Si		1.00	0.37											
Ni	8.0	10.5	8.0											
Cr	17.5	19.5	18.2											
Mo														
Ti														
N		0.11	0.06	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 emsure 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. Certified by TÜV 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 Hendrina Road, Middelburg Mpumalanga, South Africa  P.H. de Vos WORKS EXPERT			