






INSPECTION CERTIFICATE 3.1		 COLUMBUS STAINLESS <small>— (Pty) Ltd —</small> 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.		 Authorized Representative EC REP Acerinox Europa, S.A.U. C/ Santiago de Compostela no 100. 28035 Madrid Spain ZA 0045 13 0045-CPR-1805 Tel: 91 398 51 00 / 91 398 51 02 Corrosion Resistant Steel for building construction or civil engineering. Regulated substances: No performance determined		No. 2846309 - 1 1 / 1 Date 2015/04/20 MANUFACTURER'S MARK  MELTING PROCESS E/AOD								
To: EN 10204		O/A No. PW00475 ITEM No. 005 INSPECTOR'S STAMP 		CUSTOMER BE GROUP OY LOTILA KIRKKAAT/OVET 5-7/ VANHANRADANKATU 42 15522 LAHTI Finland CUSTOMER ORDER No. P031014 REQUIREMENTS AD 2000 W2 AD 2000 W10										
PRODUCT No:1 1D: Hot rolled, Plate / Coil		HEAT No. 399501 MPO No. * 3995011/0/4 <small>* 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.</small>												
SPECIFICATIONS MATERIAL CODE CASE EN 10088-2/14 HOT ROLLED PLATE 1.4307 1.4301 JGSH34162 EN 10028-7 2007 HOT ROLLED PLATE 1.4307 1.4301 JGSH34164 ASME 2013 SECTION II PART A SA240 304L 304 JGSH34165 ASTM A240 / A240M -15A 304L 304 JGSH34167 EN 10088-4 2009 HOT ROLLED PLATE 1.4307 1.4301 JGSH34168 JGSH34169 JGSH34170 JGSH34171 JGSH34172														
TOLERANCE ISO18286-08-ASTMA480/480M-ASMESA480/480M-EN10029-B H/R PLATE		Delivery Note Number: 12002												
DIMENSIONS 10.000 mm x 1500 mm x 3000 mm		TYPE X2CRNI 18 9		QUANTITY 25 MASS 9072 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	0.024	Ambient Temperature	Head	300	356	634	53	57	85			
S		0.015	0.001		Tail	295	352	630	53	56				
P		0.045	0.025	Req @ °C										
Mn		2.00	1.16	Req @ °C										
Si		1.00	0.43											
Ni	8.0	10.5	8.0											
Cr	17.5	19.5	18.1											
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 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 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 Hendrina Road, Middelburg Mpumalanga, South Africa  P.H. de Vos WORKS EXPERT			