






<b>INSPECTION CERTIFICATE 3.1</b>  To: EN 10204		 <b>COLUMBUS STAINLESS</b> (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 ACERNOX, S.A.		 ZA 0045 13 0045-CPR-1805  Corrosion Resistant Steel for building construction or civil engineering.  Regulated substances: No performance determined		No. 2846338 - 1 1 / 1 Date 2015/04/20									
						MANUFACTURER'S MARK  MELTING PROCESS E/AOD									
CUSTOMER BE GROUP OY LOTILA KIRKKAAT/OVET 5-7/ VANHANRADANKATU 42 15522 LAHTI Finland		O/A No. PW00521 ITEM No. 007		INSPECTOR'S STAMP  312											
		CUSTOMER ORDER No. P031587 REQUIREMENTS AD 2000 W2 AD 2000 W10													
PRODUCT 2B 2B: Cold rolled, heat treated, pickled, cold rolled		HEAT No. 399890 MPO No. * 3998904/4		* 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 EN 10088-2/14 COLD ROLLED COIL/SHEET EN 10028-7 2007 COLD ROLLED COIL & SHEET ASTM A240 / A240M -15A ASME 2013 SECTION II PART A SA240 EN 10088-4 2009 COLD ROLLED COIL/SHEET		MATERIAL CODE 1.4307 1.4301 1.4307 1.4301 304L 304 304L 304 1.4307 1.4301		CASE JCT141743 JCT141744 JCT141745 JCT141746 JCT141747											
TOLERANCE ISO 9445-02/09-ASTM A480/A480M-ASME SA480/SA480M C/R		Delivery Note Number: 12008													
DIMENSIONS 1.500 mm x 1500 mm x 3000 mm		TYPE X2CRNI 18 9		QUANTITY 94 MASS 4882 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 80 (%Elongation)	A 50 (%Elongation)	Hardness HRB	Bend Test	Impact Test ISO V	Z (% Reduction of Area)	
	MIN	MAX													
C		0.030	0.025	Ambient Temperature	Head	333	373	671	52	54	82				
S		0.015	0.001		Tail	328	363	668	52	54	82				
P		0.045	0.021												
Mn		2.00	1.15	Req @ °C											
Si		1.00	0.37												
Ni	8.0	10.5	8.1	Req @ °C											
Cr	17.5	19.5	18.3												
Mo															
Ti															
N		0.11	0.07												
V															
Co															
Cu															
Nb															
Sn															
Al															
B															
HEAT TREATMENT (Solution Annealed)			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												
Annual °C 1050 - 1100		Quench AIR/SPRAY													
Penneability 1.1 Max											COLUMBUS STAINLESS (Pty) Ltd Hendrina Road, Middelburg Mpumalanga, South Africa  P.H. de Vos WORKS EXPERT				