






INSPECTION CERTIFICATE 3.1		 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.		 ZA 0045 L3 0045-CPR-1805 Corrosion Resistant Steel for building construction or civil engineering. Regulated substances: No performance determined		No. 2856130 - 1 1 / 1 Date 2015/05/11 MANUFACTURER'S MARK  MELTING PROCESS E/AOD									
To: EN 10204		O/A No. PW00520 ITEM No. 001 CUSTOMER ORDER No. P031586 REQUIREMENTS AD 2000 W2 AD 2000 W10		INSPECTOR'S STAMP 											
CUSTOMER BE GROUP OY LOTILA KIRKKAAT/OVET 5-7/ VANHANRADANKATU 42 15522 LAHTI Finland		PRODUCT 2B 2B: Cold rolled, heat treated, pickled, cold rolled		HEAT No. 400364 MPO No. * 4003642/2 <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 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 JHAN53754 JHAN53755 JHAN53756 JHAN53757											
TOLERANCE ISO 9445-02/09-ASTM A480/A480M-ASME SA480/SA480M C/R		Delivery Note Number: 14299													
DIMENSIONS 4.000 mm x 1500 mm x 3000 mm		TYPE X2CRNI 18 9		QUANTITY 28 MASS 3858 kg											
CHEMICAL ANALYSIS			MECHANICAL PROPERTIES												
%	REQUIREMENT		LADLE	Test Direction Transverse	Test Pos.	Rp0.2 0.2% Proof Stress (N/MPa)	Rp1.0 1% Proof Stress (N/MPa)	Rm UTS (N/MPa)	A 5 (% Elongation)	A 50 (% Elongation)	Hardness HRB	Bend Test	Impact Test ISO V	Z (% Reduction of Area)	
	MIN	MAX													
C		0.030	0.027	Ambient Temperature	Head	303	347	662	56	51	87				
S		0.015	0.003		Tail	295	343	655	57	52	85				
P		0.045	0.025	Req @ °C											
Mn		2.00	1.17	Req @ °C											
Si		1.00	0.43												
Ni	8.0	10.5	8.0												
Cr	17.5	19.5	18.0												
Mo															
Ti				ADDITIONAL TEST				INTERGRANULAR CORROSION							
N		0.11	0.07	TEST NAME	RESULT	TEST NAME	RESULT	SPECIFICATION		RESULT					
V								ASTM A262-13:E		Pass					
Co								ISO 3651-2 METHOD A		Pass					
Cu															
Nb															
Sn				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-01-75/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					