



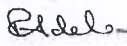


INSPECTION CERTIFICATE 3.1 ABNAHMEPRÜFZEUGNIS 3.1 To EN 10204		 COLUMBUS STAINLESS Columbus Stainless (Pty) Ltd, 11114 Middelburg Road Middelburg - 2711257, South Africa Website: www.columbusstainless.com A Subsidiary of COLTIPROSA S.A.		 Authorized Representative EL RUF Middelburg, South Africa 011 903 7800 (011 903 7812) Common Requirements for building construction or Civil Engineering Registration number: Not applicable determined		M. No. 2610410-1-111 Date: 2013/12/27 MANUFACTURER'S MARK  This Mark has All the ISO 9001:2008 EA/OD Link: back to page								
CLIENT NAME (Kliënt): BE GROUP OY LOTILA KIRKKAAT/OVET 5-7/ VANHANRADANKATU 42 15522 LAHTI Finland		ORDER / Order No. (Bestel No.): EP16409 ORDER REFERENCE No. (Bestelreferensie No.): 1014707 QUANTITY / Quantity (Menge): AD 2000 WT AD 2000 WT Certified by: TÜV Rheinland (Berlin) Handwriting in European Directive 93/70/EEC for Pressure Equipment. Certificate No. 01 202 24-01 000001		INSPECTION STAMP  328 Authorised Signatory										
PRODUCT (Produktnoem): Warmgerolmt, wärmebehandelt, gebezeit ID Hot rolled, heat treated, pickled		HEAT No. (Skroel No.): 393577 MPN No.: 3935775/3		* The heat no. number and the heat number. The serial numbers of the heat numbers and the heat numbers represent a part of the heat no. common technical properties										
SPECIFICATIONS (Spesies) EN 10088-2 2005 HOT ROLLED COIL & PLATE 1.4404 1.4401 EN 10028-7 2007 HOT ROLLED COIL & PLATE 1.4404 1.4401 ASTM A240/A240M-13 316L 316 ASME 2013 SECTION II PART A SA240 316L 316 EN 10088-4 2009 HOT ROLLED COIL / PLATE 1.4404 1.4401		MATERIALS (Materiaal) EN 10088-2 2005 HOT ROLLED COIL & PLATE 1.4404 1.4401 EN 10028-7 2007 HOT ROLLED COIL & PLATE 1.4404 1.4401 ASTM A240/A240M-13 316L 316 ASME 2013 SECTION II PART A SA240 316L 316 EN 10088-4 2009 HOT ROLLED COIL / PLATE 1.4404 1.4401		UNIT (Eenheid) HCPL84119 HCPL84121 HCPL84125 HCPL84127										
REFERENCE: ISO9444-02/09 H/R Coil/Plate-ASTMA480/A480M-ASME SA480/SA480M		FABRIK No. (Fabriek No.): 37076		QUANTITY / Quantity (Menge): 15										
SIZE / Dimension (Afmeting): 8 000 mm x 1 500 mm x 3 000 mm		SURFNAME: ICRNIMO 17-12-2 X2CRNIMO 17-12-		MASS (Gewig): 4222 kg										
CHEMICAL ANALYSIS (Chemiese Analise)		MECHANICAL PROPERTIES (Meganiese Eienskappe)												
%	REQUIREMENT (Verpligting)		TOLERANCE (Tolerasie)	Tensile Direction (Tensiele Rigting)	Tensile Test (Tensiele Proef)	Rm (MPa)	Rp0.2 (MPa)	Rp0.01 (MPa)	A (%)	A (%)	Hardness (HRB)	Impact (Klop)	Tensile Test (Tensiele Proef)	Tensile Test (Tensiele Proef)
	MIN	MAX												
C		0.030	0.026	Tensile Direction (Tensiele Rigting)	Head	335	374	610	52	53	87			
S		0.015	0.002		Tail	351	383	605	52	53	89			
P		0.045	0.024	Kop										
Mn		2.00	1.30											
Si		1.00	0.43	Kop										
Ni	10.0	13.0	10.0											
Cr	16.5	18.5	16.8											
Mo	2.00	2.50	2.09											
Ti														
N		0.11	0.04											
V														
Co														
Cu														
Nb														
Sn														
Al														
II														
HEAT TREATMENT (Warmebehandeling) (Temperatuur): AIR/SPRAY		ADDITIONAL TEST (Zwaartepunt) (Zwaartepunt) TEST NAME (Proefnaam) RESULT (Uitslag) TEST NAME (Proefnaam) RESULT (Uitslag) STANDARD (Norm) RESULT (Uitslag) ASTM A262-10 E Pass EN ISO 3651-2 Pass												
HEAT TREATMENT (Warmebehandeling) (Temperatuur): 1050 - 1100		ADDITIONAL TEST (Zwaartepunt) (Zwaartepunt) TEST NAME (Proefnaam) RESULT (Uitslag) TEST NAME (Proefnaam) RESULT (Uitslag) STANDARD (Norm) RESULT (Uitslag)												
HEAT TREATMENT (Warmebehandeling) (Temperatuur): AIR/SPRAY		ADDITIONAL TEST (Zwaartepunt) (Zwaartepunt) TEST NAME (Proefnaam) RESULT (Uitslag) TEST NAME (Proefnaam) RESULT (Uitslag) STANDARD (Norm) RESULT (Uitslag)												
PERMEABILITY TEST (Permeabiliteitsproef) Columbus Stainless (Pty) Ltd certifies that the analysis and material on this certification is correct and meets the specifications stated		COLUMBUS STAINLESS (Pty) Ltd Hendrina Road Middelburg Mpumalanga, South Africa  P H de Vos DER WERKS SACHVERSTANDIGE												