





INSPECTION CERTIFICATE 3.1 ABNAHMEPRUFZEUGNIS 3.1 To EN 10204		 COLUMBUS STAINLESS Columbus Stainless (Pty) Ltd 131 Middleburg Rd Midburg 2003 Tel: +27 (0) 11 201 1111 Fax: +27 (0) 11 201 1111 Website: www.columbusstainless.co.za A Subsidiary of ALBERTUS SA		 Authorized Representative CL RFP Access Europe S.A.S. 12, rue de la Couronne 1000 2003 Belgium Spain Tel: +34 94 83 04 00 Fax: +34 94 83 04 01 Corrosion Resistant Steel for building construction or civil engineering Registered subsidiaries in performance agreement		No. 2612599 - 1 / 1 Date 2013/12/31 MANUFACTURER'S MARK  E/AOD TUV RHEINLAND																					
CLIENT / BE GROUP OY LOTILA KIRKKAATYOVET 5-7/ VANHANRADANKATU 42 15522 LAHTI Finland		ORDER / EP16410 ORDER NUMBER / P014709 REQUIREMENTS / AD 3000 W3 AD 3000 W11 Certified by TUV Rheinland/Berlin-Brandenburg to European Directive 97/23/EC for Pressure Equipment Certificate no. 01 202 ZA/O 000001		ORDER / 001  329 TUV RHEINLAND																							
PRODUCT / Warmgeformt, värmebehandelt, gebeizt ID: Hot rolled, heat treated, pickled		ORDER / 393955 ORDER / 39395527/0/0 * The first six numbers are the last number. The sixth character is the site location and any further characters represent a part of the site with common mechanical properties																									
SPECIFICATION / EN 10088-2 2005 HOT ROLLED PLATE EN 10028-7 2007 HOT ROLLED PLATE: ASME 2013 SECTION II PART A SA240 ASTM A240/A240M-13 EN 10088-1 2009 HOT ROLLED PLATE		MATERIALS / EN 10088-2 2005 HOT ROLLED PLATE 1.4307 1.4301 EN 10028-7 2007 HOT ROLLED PLATE 1.4307 1.4301 ASME 2013 SECTION II PART A SA240 304L 304 ASTM A240/A240M-13 304L 304 EN 10088-1 2009 HOT ROLLED PLATE 1.4307 1.4301		LOT / J1CON96392 J1CON96393																							
REFERENCE / ISO 18286-08 H/R Plate-ASTM A480/A480M-ASME SA480/SA480M		ORDER / 37606																									
DIMENSIONS / 15 000 mm x 1500 mm x 3000 mm		ORDER / X5CRNI 18-10 X2CRNI 18 9		QUANTITY / 4 MASS / 2188 kg																							
CHEMICAL ANALYSIS / % ELEMENTS / C, S, P, Mn, Si, Ni, Cr, Mo, Ti, N, V, Cu, Nb, Sn, Al, B		MECHANICAL PROPERTIES / Tensile, Yield, Elongation, etc.																									
TENSILE PROPERTIES / Yield Strength, Tensile Strength, Elongation		<table border="1"> <thead> <tr> <th>Yield Strength</th> <th>Tensile Strength</th> <th>Elongation</th> <th>Reduction of Area</th> <th>Impact</th> <th>Hardness</th> </tr> </thead> <tbody> <tr> <td>376 MPa</td> <td>600 MPa</td> <td>78%</td> <td>78%</td> <td>78 J</td> <td>180 HV0.05</td> </tr> </tbody> </table>														Yield Strength	Tensile Strength	Elongation	Reduction of Area	Impact	Hardness	376 MPa	600 MPa	78%	78%	78 J	180 HV0.05
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HEAT TREATMENT / Anneal 1050 1100, AIR/SPRAY		ADDITIONAL TESTS / Spectroscopic analysis, etc.																									
PERMEABILITY / Penetration 1.1 Max		CERTIFICATION / This material meets the requirements of EN 10204 3.1																									
CONTACT / COLUMBUS STAINLESS (Pty) Ltd Hendrina Road, Midburg, Mpumalanga, South Africa P. H. de Vos DER WERKS SACHVERSTANDIGE																											