



Columbus Stainless (Pty) Ltd P O Box 333 Middelburg 1050 South Africa
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 A Subsidiary of ACERINOX S.A.

CE **Authorized Representative**
EC REP
 Acerinox Europa, S.A.U.
 C/ Santiago de Compostela no 100. 28035 Madrid Spain
 ZA 0045 Tel: 91 398 51 00/ 91 398 51 02
 16
 0045-CPR-1805
 Corrosion Resistant Steel for building construction or civil engineering.
 Regulated substances: No performance determined

INSPECTION CERTIFICATE 3.1

ISSUE DATE: 2016-11-18

ACCORDING TO EN 10204 CERTIFICATE NO 3110199 Rev 1

| | | | | | |
|---------------------|--|-------------------|--|-----------------|--------------|
| MANUFACTURER'S MARK | | INSPECTOR'S STAMP | | MELTING PROCESS | E/AOD |
|---------------------|--|-------------------|--|-----------------|--------------|

| | | | |
|---|---|----------|-------------------|
| CUSTOMER: NOVA TRADING, S.A. UL STAROTORUNSKA 5 TORUN Poland | ORDER No. | ITEM No. | DELIVERY NOTE No. |
| | PW01506 | 19 | DEL068720 |
| | CUSTOMER ORDER No. S/131964/064/2016 | | |
| REQUIREMENTS AD 2000 W2 AD 2000 W10 | | | |

| SPECIFICATIONS | MATERIAL CODE | CASE |
|-----------------------------------|---------------|-------------------------------|
| EN 10088-2-2014 | 1.4307 1.4301 | KCP507226 4081022B [13710 Kg] |
| EN 10028-7-2007 | 1.4307 1.4301 | KCP507227 4081022A [12560 Kg] |
| ASTM A240 / A240M-16 | 304L 304 | |
| ASME BPVC IIA SA240 / SA240M-2015 | 304L 304 | |
| EN 10088-4-2009 | 1.4307 1.4301 | |

| | | |
|---|-------------|-------------|
| TOLERANCE: ISO 9445-2 ; ASTM A480/480M ; ASME SA480/SA480M | TYPE | X2CrNi 18-9 |
|---|-------------|-------------|

| | |
|--|-------------------------|
| PRODUCT: 2B: Cold rolled, heat treated, pickled, skin passed. | HEAT No.: 408102 |
|--|-------------------------|

| | | | |
|--|-------------------|----------------------|------------------------------|
| DIMENSIONS: 3 mm x 1500 mm x COIL | QUANTITY 2 | MASS 26270 Kg | MATERIAL No : 4081022 |
|--|-------------------|----------------------|------------------------------|

| CHEMICAL COMPOSITION (%) | | | | | | | | | | | | |
|--------------------------|-------|-------|-------|------|------|------|------|------|--|--|--|--|
| | C | S | P | Mn | Si | Cr | Ni | N | | | | |
| Min | | | | | | 17.5 | 8.0 | | | | | |
| Max | 0.030 | 0.015 | 0.045 | 2.00 | 0.75 | 19.5 | 10.5 | 0.10 | | | | |
| Actual | 0.026 | 0.002 | 0.026 | 1.18 | 0.38 | 18.0 | 8.0 | 0.07 | | | | |

| MECHANICAL PROPERTIES | | | | | | | | | | |
|-----------------------|------------|-----------------|--------------|--------------|-----------|----------|---------|--------------|--|--|
| TEMPERATURE | DIRECTION | POSITION | Rp0.2 MPa | Rp1.0 MPa | Rm MPa | A50 % | A5 % | HRBW HRBW | | |
| Ambient | Transverse | Requirement Min | 230 | 260 | 540 | 40 | 45 | | | |
| | | Max | | | 700 | | | 92 | | |
| Ambient | Transverse | Head | 313 | 361 | 663 | 51 | 55 | 87 | | |
| | | Tail | | | | | | 88 | | |

| INTERGRANULAR CORROSION | |
|------------------------------------|------------------|
| SPECIFICATION | RESULT |
| ASTM A262 Practice E | PASS |
| ISO 3651-2 Method A | PASS |
| HEAT TREATMENT (SOLUTION ANNEALED) | |
| Anneal °C | Quench |
| 1050 - 1100 | AIR/ WATER SPRAY |

Columbus Stainless (Pty) Ltd. certifies that the analysis and material on this certification is correct and meets the specifications stated. This document is issued without alteration or erasure and may only be reproduced in full. Made and melted in South Africa. This Material is PMI Tested. Visual and dimensional control: no exceptions. The delivery is in accordance with the order. This material is free from mercury contamination. The radiation level exhibited by this material is not greater than the normal background level. This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2015 & NACE MR0103 / ISO 17945 : 2015 Columbus Stainless is ISO 9001:2008 & ISO 14001:2004 Certified. For the Declaration of Performance, please visit <http://www.columbusstainless.co.za/declaration>
 Certified by TUV Rheinland to European Directive 2014/68/EU for Pressure Equipment. Certificate no: 01 202 ZA/Q-000001

Permeability 1.1 Max
 Marking: Material Code, MPO No, Manufacturers Brand, Inspectors Stamp

COLUMBUS STAINLESS (PTY) LTD
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G. van Niekerk
 WORKS EXPERT