



Marine &amp; Offshore

Certificate number: 19581/B0 BV

File number: MAT 2064-2012

Product code: 9013I

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## APPROVAL CERTIFICATE for MATERIALS

*This certificate is issued to*

**Outokumpu Stainless AB**  
DEGERFORS - SWEDEN

*for the type of product*

### STAINLESS STEEL ROLLED PRODUCTS

Hot rolled plates made of austenitic stainless steel grades 304LN, 304/304L, 316/316L, X5CrNi1810 and duplex austenitic-ferritic stainless steel grade 2205.

#### Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

*This certificate is a renewal of certificate N° 19581/A1 BV expiring on 30/04/2018*

**This certificate will expire on: 30 Apr 2023**

**For Bureau Veritas Marine & Offshore,**

At BV GOTHENBURG, on 04 Apr 2018,

Magne MOLLER



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION :**

Hot rolled plates.

<b>Steel grade</b>	<b>Delivery condition</b>	<b>Range of thickness</b>
304 LN	Solution annealed	up to 50mm
304/304L	Solution annealed	up to 50mm
316/316L	Solution annealed	up to 61mm
X5CrNi 18 10	Solution annealed	up to 18.5mm
2205	Solution annealed	up to 21mm

Steelmaking by Electric Arc Furnace (EAF) and AOD Converter. Continuous Casting.

### **2. DOCUMENTS AND DRAWINGS :**

- Documentation according to Bureau Veritas request for approval NR480 issued by Outokumpu Stainless steel AB - Hot rolled plate Degerfors Sweden dated 11 January 2007.

- Specifications of grades 304LN, 304/304L according to ASTM A240, EN 10088-2; 316/316L according to ASME SA240, EN 10088-2; X5CrNi 18 10 according to UNI 7500; Specifications of grade 2205 according to EN 10088-2.

### **3. TEST REPORTS :**

- Documentation according to Bureau Veritas request for approval NR480 - Part 9 :Tests results in a number of test certificates and statistics issued by Outokumpu Stainless steel AB - Hot rolled plate Degerfors Sweden dated 11 January 2007.

- Welding procedure qualification record (PQR) N° WPAR-003 Rev.0 dated 12 June 1996.

- Approval for fabricated steel coils N° KHN 0650077 and test report No. 06519-73 dated 16 June 2006.

- Report BV approval 304LN Rev.0 dated 18/06/2015 issued by Outokumpu Stainless AB.

### **4. APPLICATION / LIMITATION :**

As per Bureau Veritas Rules for Classification.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

The rolled plates are to be supplied by Outokumpu Stainless AB in compliance with the type and the requirements described in this certificate. This type of product is within the category IBV of Bureau Veritas Rule Note NR320. BV product certificate is required.

### **6. MARKING OF PRODUCT :**

As per Bureau Veritas Rules for Classification.

### **7. OTHERS :**

This certificate replaces approvals No.19581/A0 BV and No.19581/A1 BV.

\*\*\* END OF CERTIFICATE \*\*\*