



Marine & Offshore

Certificate number: 73701/A0 BV

File number: MAT 89757-2022

Product code: 90131

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
AVESTA - SWEDEN

for the type of product

STAINLESS STEEL ROLLED PRODUCTS

Rolled plates made of austenitic stainless steel grades and duplex austenitic-ferritic stainless steel grades

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 will expire on: 03 Nov 2028

For Bureau Veritas Marine & Offshore,
At BV GOTHENBURG, on 03 Nov 2023,
Torbjorn Ygesjo

This certificate was created electronically and is valid without signature



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. 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 and cold rolled plates made in austenitic stainless steels

Steel grade	Delivery condition	Range of thickness
304/304L 316/316L 321 316LTi – ASTM A240	Solution annealed	From 3mm up to 12mm (Hot rolled) From 1.5mm up to 6mm (Cold rolled)
317/317L – ASTM A240 904L – ASTM A240	Solution annealed	From 3mm up to 10mm (Hot rolled) From 1.5mm up to 6mm (Cold rolled)
UNS S31254 UNS N08926 ; UNS N08367 – ASTM A240	Solution annealed	From 3mm up to 8mm (Hot rolled) From 1.5mm up to 6mm (Cold rolled)

Hot rolled and cold rolled made in austenitic-ferritic (duplex) stainless steels

Steel grade	Delivery condition	Range of thickness
UNS S31803; UNS S32205 UNS S32304 UNS S32101; UNS S82441 – ASTM A240	Solution annealed	From 3mm up to 10mm (Hot rolled) From 1.5mm up to 6mm (Cold rolled)
UNS S32750 UNS S32760	Solution annealed	From 3mm up to 8mm (Hot rolled) From 1.5mm up to 6mm (Cold rolled)

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

2. DOCUMENTS AND DRAWINGS :

2.1-Documents issued by Outokumpu Stainless steel AB:

- “General questionnaires response – Avesta Works compiled information” dated 30/08/2022.
- “Company information Outokumpu Stainless Avesta Works” dated 04/09/2023.
- “Manufacturing process specification Outokumpu Stainless Avesta Works” dated 09/10/2023.
- “Thickness measurements Outokumpu Stainless Avesta Works” dated 09/10/2023.

3. TEST REPORTS :

3.1-Documents issued by Outokumpu Stainless steel AB:

- “Test results Avesta Works BV application” dated 12/09/2023.
- “Test results welding tests Avesta works BV application” dated 18/09/2023.
- “Ultrasonic inspection reports” dated 05/10/2023.
- “Liquid penetrant test reports” dated 05/10/2023.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The rolled plates are to be supplied by Outokumpu Stainless AB in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, Outokumpu Stainless AB has declared to Bureau Veritas the following production site:

Outokumpu Stainless AB
Avesta Works
Box 74
774 22 Avesta (Sweden)

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

It is Outokumpu Stainless AB's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

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