



Marine & Offshore

Certificate number: 57088/A0 BV

File number: MAT 6916-2019

Product code: 8154I

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

FONDINOX SPA
SERGNANO (CR) - ITALY

for the type of product

STEEL CASTINGS

Austenitic and austenitic-ferritic stainless steel castings.

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: 01 Oct 2024

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 01 Oct 2019,

Sandro BRUSEGAN



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 :

Austenitic stainless steel castings made by sand casting process with maximum weight 500Kg.
Typical products are valves, body, bonnet, pump.

Austenitic and austenitic-ferritic stainless steel castings made by centrifugal casting process with maximum weight 1710Kg.
Typical products are tubes.

2. DOCUMENTS AND DRAWINGS :

As per following documents issued by Fondinox Spa:

- Company Overview submitted May 2019.
- "Stainless steel sand casting NR480, NR216" dated 28 February 2018.
- "General procedure for performing heat treatment - Doc. No. POI 008EN" dated 25 February 2019.
- NDT procedures No. POI038_E3_R3 dated 16/01/2017; No. POI028_E3_R1 dated 25/03/2019 and POI077_E3_R0 dated 31/03/2015.

3. TEST REPORTS :

3.1 As per following documents issued by Fondinox Spa:

- Material certificate N° 98533 for Heat G4737, grade CF3M, Corp brut 7600 4" 900/1500 dated 04 July 2019.
- Material certificate N° 98535 for Heat G4741, grade CF8M, Corp 4341 DN400 dated 04 July 2019.
- Material certificate N° 86868SAMPL for Heat L6109, grade 5A, Tube diam. 406*195*2125mm dated 11 April 2016.
- Material certificate N° 86867SAMPL for Heat D4431, grade CF3M, Tube diam. 650*520*1820mm dated 11 April 2016.

3.2 Typical tested grades are :

- CF3M, CF8M according to ASTM A351 for austenitic stainless steels.
- Gr. 5A according to ASTM A995 for duplex stainless steel.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Chemical composition, tensile properties and Charpy-V notch test requirements are to be as per Bureau Veritas Materials Rules for Classification of Steel Ships and/or alternative specification mentioned on reviewed documents & drawings, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The steel castings are to be supplied by Fondinox Spa 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.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

Nil.

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