



Marine & Offshore

Certificate number: 12971/D0 BV

File number: MAT 11273/01

Product code: 8153I

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

Bifrangi S.p.A.
Mussolente - ITALY

for the type of product

STEEL FORGINGS

Carbon and carbon-manganese steel forgings of maximum weight 200 Kg

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: 21 Mar 2028

For Bureau Veritas Marine & Offshore,

At BV NAPOLI, on 21 Mar 2023,

Sandro BRUSEGAN

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 :

Carbon and carbon-manganese steel forgings (flanges, fittings...) of maximum weight 200 Kg.
No steelmaking. Raw materials subcontracted (slabs, rolled bars...). Parts made by open die forging. Heat treatment, as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1 – Documents issued by Bifrangì S.p.A.:

- Document "Material and qualification procedure for ships NR480 sec 5" dated January 2003.
- Manufacturing process data dated September 2022.
- Ref.22TD010 - Forging scheme for flanges dated 02 November 2022.
- Control Plan – Flanges Rev.02 dated 17 November 2022.
- Data for grade P250GH submitted on March 2023.

3. TEST REPORTS :

3.1 - Typical steel grades are:

- C22.8 according to DIN 17243 or P250GH according to EN 10222-2;
- LF2 according to ASTM standard A350.

3.2 - Documents issued by Bifrangì S.p.A.:

- "Production tests issued for grade LF2-Heat No.264248" dated 16/11/2022.
- Document "Material and qualification procedure for ships NR480 sec 5" issued by Bifrangì and dated January 2003.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Raw materials, such as slabs, rolled bars, are to be supplied with manufacturer's certificates as minimum. Steel grade specification is to be as per Bureau Veritas Materials Rules for Classification of Steel Ships and/or approved specification, as applicable.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The forgings are to be supplied by Bifrangì 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 :

This certificate replaces approvals from No.12971/A0 BV to No.12971/C0 BV.

*** END OF CERTIFICATE ***