**Certificate number:** 42200/C0 BV
**File number:** MAT 13672-2015
**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*

## FORGIATURA MARCORA SRL

Olgiate Olona (VA) - ITALY

*for the type of product*

## STEEL FORGINGS

Carbon, carbon-manganese, alloy, low alloy & stainless (austenitic and ferritic-austenitic) steels forgings

**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° 42200/B0 BV expiring on 03/12/2025*

**This certificate will expire on: 03 Dec 2030**

**For Bureau Veritas Marine & Offshore,**
At BV NAPOLI, on 17 Nov 2025,
Alessandro Asborno

***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 :

Forgings for marine applications such as bonnet, raw body, etc.

| Type of steel | Typical tested grades | Max. Weight |
|---|---|---|
| Carbon steels<br>Carbon-manganese steels | FC560 according to BV NR 216 (500 kg)<br>LF2 according to ASTM A350M - Modified | Weight up to 12000 kg |
| Alloy & Low-alloy steels | AISI 8630 80K according to MS-206 Rev.07<br>F60 Mod. based on ASTM A694 | Weight up to 12000 kg |
| Austenitic stainless steel | F304L according to ASTM A182 | Weight up to 3200 kg |
| Austenitic-ferritic stainless steel | F55 according to ASTM A182<br>F51 according to UNS S31803 | Weight up to 1000 kg |

Forgings are made from blooms, billets and ingots. Open die forging by press; heat treatment as applicable.

## 2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Forgiatura Marcora S.R.L.:
- Manufacturing process specifications Ref.MPS Fm 05/15 Rev.01 dated 09/02/2015 for grade LF2; Ref.MPS Fm 152/14 Rev.04 dated 23/01/2015 for grade F60; Ref.MPS Fm 10/15 Rev.01 dated 03/04/2015 for grade FC560;
- Certificates for grade AISI 8630 80K: Ref.1400346-AC & 1400346-AC dated 07/06/2014; Ref.1400346-TT & 1400347-TT, Ref.1400346-DUR & 1400346-DUR, Ref.1400346-UT & Ref.1400347-UT, Ref.1400346-MT & 1400347-MT dated 07/06/2014; Ref.1400347-PM dated 30/05/2014; Ref.14/1440RP03 dated 23/06/2014; Ref.N.AB58 dated 22/06/2015.
- "Manufacturer information" dated Sept. 2020.
- "NDT procedures" dated Sept.2020.

## 3. TEST REPORTS :

3.1 - Documents issued by Forgiatura Marcora S.R.L.:
- Inspection certificates attached to Conformity certificates: Ref.1500081-CC dated 05/05/2015 for grade LF2; Ref.1401485-CC dated 16/02/2015 for grade F60; Ref.1500142-CC dated 08/05/2015 for grade FC560; Ref.1400346-CC, Ref.1400346-TT, Ref.1400346-DUR, Ref.1400347-CC, Ref.1400346-UT, Ref.1400347-UT, Ref.1400347-MT dated 07/06/2014, Ref.1400347-PM dated 30/05/2014, Ref.14/1440RP03 dated 23/06/2014 issued by Quality control S.r.l.
- "Stainless steels F304L - TEST REPORTS", "Stainless steels F51-TEST REPORTS", "Stainless steels F55 - TEST REPORTS", "Report 2201476 - 304L", dated 24 April 2020
- "Alloy&LowAlloySteels AISI 8630 - TEST REPORTS", "Carbon-Carbon Manganese Steels LF2 - TEST REPORTS", "Alloy&LowAlloySteels F60-TEST REPORTS", "Alloy&LowAlloySteels F60- upper weight - TEST REPORTS", dated 29 May 2020.

## 4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units.
4.2 - Chemical composition and mechanical properties requirements are to be as per Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units, and/or alternative specification mentioned on reviewed drawings, as applicable.
4.3 - Semi-finished products are to be supplied by Rubiera Special Steel S.P.A. or other steelmakers approved by the Society.

## 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Forgiatura Marcora S.R.L. 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 - Semi-finished products used to manufacture forgings are to be supplied with works certificates (W).
5.5 - For information, Forgiatura Marcora S.R.L. has declared to Bureau Veritas the following production site:

**Forgiatura Marcora S.R.L.**
Via A. Gramsci, 36
21057 Olgiate Olona (VA)
ITALY

## 6. MARKING OF PRODUCT :

6.1 - Each steel forging that has been tested with satisfactory results are to be marked with the following information:
- Manufacturer's name or trademark
- Bureau Veritas' Mark
- Identification marking enabling traceability, such as cast number, heat number, or batch number

- Material grade and classification
- Additional markings where applicable, such as test pressure or specific inspection references

Additional marking requirements specific to steel forgings shall be in accordance with the “Marking” article in the relevant section of Bureau Veritas NR216 Rules on Materials and Welding for the Classification of Marine Units.

**7. OTHERS :**

7.1 - It is Forgiatura Marcora S.R.L.'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.

7.2 - This certificate supersedes the Type Approval Certificate N° 42200/B0 BV issued by the Society.

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