



Marine & Offshore

Certificate number: 62754/A2 BV

File number: MAT 88481-2020

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

VITKOVICE HAMMERING a.s.
Ostrava - CZECH REPUBLIC

for the type of product

STEEL FORGINGS

Rough machined Carbon, Carbon-manganese and Alloy steel bars.

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: 16 Nov 2025

For Bureau Veritas Marine & Offshore,

At BV PRAGUE, on 11 Nov 2024,

Pavel Jr. Stepanek

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 :

Rough machined Carbon, Carbon-manganese and Alloy steel bars with maximum weight 8 tons.

No steelmaking. Forgings manufactured by open die forging method. Heat treatment as applicable.

2. DOCUMENTS AND DRAWINGS :

2.1-Documents issued by Vitkovice Hammering a.s.:

- "Tech. Docu. for BV" dated October 2020.
- "NDT Docu. for BV" dated October 2020.
- ITP-04-00 dated 08 January 2024, ITP-05-00 dated 10 January 2024, ITP-06-00 dated 13 May 2024 and ITP-08-00 dated 18 July 2024.
- Manufacturing quality plans No. MQP-12, No. MQP-13 dated 19 June 2024, No MPQ-14 dated 16 May 2024 and No. MPQ-16 dated 20 July 2024.
- Ultrasonic procedure No. SP20 rev.1 dated 06 September 2022 and NDT employees' certificates dated 2024.

3. TEST REPORTS :

3.1-As per following documents issued by Vitkovice Hammering a.s.:

- Test Report forging #1 dated June 2020.
- Test Report forging #2 dated October 2020.
- Test reports for grade C45E, Heat 226006 dated 15 March 2024.
- Test reports for grade C45E, Heat 294010 dated 08 March 2024.
- Test report S325G_Heat No 294169 dated 23 August 2024.
- Test report S325G_Heat No 294611 dated 23 August 2024.

3.2-Typical tested grade:

- 34CrNiMo6 QT according to EN 10083.
- C45E according to EN 10250-2.
- S325G according to EN 10250-2.

4. APPLICATION / LIMITATION :

4.1 - As per Bureau Veritas Rules for Classification. Chemical composition, tensile properties, and Charpy V-notch test requirements are to be as per Bureau Veritas Rules NR216 and/or alternative specification mentioned on reviewed documents and drawings as applicable.

4.2 - Semi-finished products are to be supplied by Vitkovice Heavy Mahinery a.s.; ZDAS, a.s. Divize Metalurgie; Sidenor Aceros Especiales, S.L. (Basauri) or other steelmakers approved by the Society.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel forgings are to be supplied by Vitkovice Hammering a.s. 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, Vitkovice Hammering a.s. has declared to Bureau Veritas the following production site:

Vitkovice Hammering a.s.
Ruska 2887/101
70602 Ostrava
CZECH REPUBLIC

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.62754/A0 BV to No.62754/A1 BV.

It is Vitkovice Hammering a.s.'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 *****