



Certificate number: 79522/A0 BV

File number: MAT 92897-2025

Product code: 8999H

*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*

**Metallus Inc.**

Canton, OH - UNITED STATES OF AMERICA

*for the type of product*

**SEMI-FINISHED PRODUCTS**

Rolled bars used as semi-finished products.

**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: 18 Oct 2030**

**For Bureau Veritas Marine & Offshore,**

At BV PORT EVERGLADES CENTRE, on 18 Oct 2025,

Flavio Rosas

***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](http://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 :

Rolled bars used as semi-finished products intended to Forgings.

| Steel type                     | Deoxydation practice & Refining | Delivery conditions                       |
|--------------------------------|---------------------------------|---|
| Carbon, Carbon-manganese steel | Killed and refining with Al     | As rolled (AR) with diameter max. 241,3mm |
| Alloy Steel                    | Killed and refining with Al     | As rolled (AR)with diameter max. 215,9mm  |

Steelmaking by EAF, Ladle furnace and Vacuum degassing.

Bars are made by the following process : Ingot casting and Hot rolling or Continuous casting, forging into bloom and hot rolling.

### 2. DOCUMENTS AND DRAWINGS :

2.1 - As per following documents issued by Metallus Inc.:

- "Metallus Inc NR480 technical file - rev.5" submitted 18/08/2025.

### 3. TEST REPORTS :

3.1- As per following test reports issued by TimkenSteel and Ellwood National Crankshaft:

-Test report (34CrNiMo6V - Heat No.W5666) dated 09/12/2020.

-Test report (4140MV - Heat No.N3093) dated 17/05/2023.

### 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.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel bars are to be supplied by Metallus Inc. in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - Metallus Inc. has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, Metallus Inc. has declared to Bureau Veritas the following production site:

**Metallus Inc.**  
4511 Faircrest St SW  
44706 Canton, OH  
UNITED STATES OF AMERICA

### 6. MARKING OF PRODUCT :

6.1 - Each steel bar 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 bars 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 Metallus Inc.'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 \*\*\*