



Marine & Offshore

Certificate number: 15987/D1 BV

File number: MAT 11868

Product code: 9007I

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

Wuhan Iron & Steel (Group) CO. LTD
Wuhan - CHINA

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled strips in steel grade AH32/36/40, DH32/36/40, EH36/40.

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: 13 Feb 2027

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 13 Mar 2025,

Jennifer Zhang

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 :

Hot rolled strips.

Steel grade	Deoxydation practice & Refining	Delivery conditions
AH32, DH32	Killed, Al	Controlled rolling (CR) with maximum thickness 19mm
AH36, DH36	Killed, Al	Controlled rolling (CR) with maximum thickness 19mm
AH36, DH36, EH36 AH40, DH40, EH40	Killed, Al+Nb	Thermo-Mechanical Controlled Processing (TMCP) with maximum thickness 20mm

Steelmaking by Basic Oxygen Converter and Argon blowing; Continuous Casting.

2. DOCUMENTS AND DRAWINGS :

2.1 - Document issued by Wuhan Iron & Steel Corporation Limited:

- "Declaration document for hull steel production certificate N°R/WG (BV) 003-2016" dated 13 September 2016.

- "Technical documentation_D1" including thickness measurement procedure, manufacturing process specification and ITP. ref.2024W001 dated 01 October 2024.

3. TEST REPORTS :

3.1 - Document issued by Wuhan Iron & Steel Company Limited:

- "The N°2 hot strip mill information of the work approval" dated May 2005.

- "Testing report for works approval of the N°2 hot strip mill of WISCO" dated August 2005.

- "Test report and Original records_D1" ref.2025W001 dated 03 March 2025.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for the Classification.

The slabs are supplied by the steelwork N°3 of WISCO and the strips delivered by the hot strip factory N°2 of WISCO.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The rolled steel products are to be supplied by Wuhan Iron & Steel (Group) CO., LTD 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, Wuhan Iron & Steel (Group) CO., LTD has declared to Bureau Veritas the following production site:

Wuhan Iron & Steel (Group) CO., LTD

Yejin Road Qingshan

Hubei, Wuhan

CHINA

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for the Classification.

7. OTHERS :

7.1 - It is Wuhan Iron & Steel (Group) CO., LTD'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° 15987/D0 BV issued by the Society.

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