



Marine & Offshore

Certificate number: 16293/C1 BV

File number: MAT 61428

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

LIBERTY GALATI S.A.
GALATI - ROMANIA

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled plates in steel grade AH32, DH32, EH32, AH36, DH36, EH36 with Z properties.

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: 02 Mar 2021

For Bureau Veritas Marine & Offshore,

At BV GALATI, on 10 Oct 2019,

Mario-Sorin Gheorghiu



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 plates.

Steel grade	Deoxydation practice & Refining	Delivery conditions
AH32-AH36 DH32-DH36 EH32-EH36 (Z15/Z25/Z35)	Killed and fine grain treated with Al or Al+Nb	Normalised (N) maximum thickness 60mm
AH32-AH36 DH32-DH36 (Z15/Z25/Z35)	Killed and fine grain treated with Al or Al+Nb	Normalising Rolling (NR) maximum thickness 60mm

Steelmaking by Basic Oxygen Converter. Continuous casting.

2. DOCUMENTS AND DRAWINGS :

As per following document issued by S.C. ArcelorMittal Galati S.A.:

- "Bureau Veritas - Extension of product certification to Z15/Z25/Z35" dated October 2014.
- "Bureau Veritas re-certification Volume 1" dated January 2016.
- "Report of extent Bureau Veritas Homologation of steel grade BVDH36_Z35_NR delivery condition" submitted August 2019.

3. TEST REPORTS :

As per following document issued by S.C. ArcelorMittal Galati S.A.:

- Test reports issued for approval AR/R-01-03-242/Ind.a.
- "Bureau Veritas - Extension of product certification to Z35" dated July 2014.
- "Bureau Veritas - Extension of product certification to Z15/Z25/Z35" dated October 2014.
- "Report of extent Bureau Veritas Homologation of steel grade BVDH36_Z35_NR delivery condition" submitted August 2019.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel plates are to be supplied by Liberty Galati S.A. 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.

In addition to the material grade designation, products are to be marked with the symbol Z15, Z25, Z35 as appropriate.

7. OTHERS :

This certificate replaces approval number AR/R-01-03-242/Ind. issued on 24 June 1997, and from No.16293/A0 BV to No. 16293/C0 BV.

*** END OF CERTIFICATE ***