



Marine & Offshore

Certificate number: 08551/E0 BV

File number: MAT 1635/01

Product code: 90071

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

NLMK Clabecq SA

Ittre - BELGIUM

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled plates in steel grade AH32, DH32, EH32, AH36, DH36, EH36, AH40, DH40 and EH40

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: 07 Jan 2027

For Bureau Veritas Marine & Offshore,

At BV ANTWERP, on 07 Jan 2022,

Nele Appels



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 - DH32 - EH32	Killed and Al+Nb fine grain treated	Normalising Rolled (NR) with thickness up to 25,4mm
AH36 - DH36 - EH36		Thermomechanical rolling (TM) with thickness up to 25,4mm
		Controlled Rolling followed by accelerated cooling (TM+AcC) with thickness up to 25,4mm
AH40 - DH40 - EH40	Killed and Al+Nb fine grain treated	Controlled Rolling followed by accelerated cooling (TM+AcC) with thickness up to 25,4mm

No steelmaking.

2. DOCUMENTS AND DRAWINGS :

- Document named "Shipbuilding grades BV application for renewal" dated 26/10/2016 issued by NLMK Clabecq S.A.

3. TEST REPORTS :

3.1 - Test reports issued by Duferco-Clabecq:

- "Extension of manufacturer approval - Hull plates grade EH36 TM processed up to 25mm" dated July 2004,
- "Extension of manufacturer approval - Hull plates grade DH36 in the NR conditions up to 25mm" dated October 2004,
- "Extension of manufacturer approval - Complementary tests - Hull plates up to 100mm thickness" dated May 2001,
- "Extension of manufacturer approval - Hull plates up to grade EH36, 120mm thickness" dated December 2000,
- "Extension of manufacturer approval - Hull plates up to 100mm thickness" dated May 2000,
- "Agrément des Forges de Clabecq pour la fourniture de tôles en acier de haute résistance produites par laminage contrôlé et refroidissement accéléré" dated June 1992.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Materials Rules for Classification.

Slabs are to be supplied by AZOVSTAL Ukraine, NLMK-Lipetsk or other steel mill approved by Bureau Veritas for the type of steel to be rolled.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The products are to be supplied by NLMK Clabecq SA 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 Materials Rules for Classification.

7. OTHERS :

This certificate replaces approvals from No.08551/A0 BV to No.08551/D0 BV.

*** END OF CERTIFICATE ***