



Marine & Offshore

Certificate number: 11705/E0 BV

File number: MAT 1635/01

Product code: 9006I

*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

NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled steel plates in steel grade A, B, D or E

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: 27 Feb 2028

For Bureau Veritas Marine & Offshore,

At BV ANTWERP, on 27 Feb 2023,

Nele Appels

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 plates.

Steel grade	Deoxydation practice & Refining	Delivery conditions
A - B	Killed and Al fine grain treated	As Rolled (AR) up to 50mm
A - B - D	Killed and Al fine grain treated	Normalising Rolled (NR) up to 90mm
		Thermomechanical rolling (TM) up to 35mm
		Controlled rolled followed by accelerated cooling (TM+AcC) up to 25mm
E	Killed and Al fine grain treated	Thermomechanical rolling (TM) up to 35mm
		Controlled rolled followed by accelerated cooling (TM+AcC) up to 25mm

No steelmaking.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by NLMK Clabecq S.A.:

- Document named "Shipbuilding grades BV application for renewal" dated 26/10/2016 and 31/08/2017.
- Thickness procedure doc. No. GEN-I-03 Rev.1 dated 09/01/2023.
- "Short presentation of the NLMK Clabecq rolling mill" submitted on February 2023.

3. TEST REPORTS :

3.1 - As per following reports issued by DUFERCO - CLABECQ:

- "Extension of manufacturer approval - Hull plates up to 100mm thickness" ,dated May 2000,
- "Extension of manufacturer approval - Hull plates up to grade E, 120mm thickness" dated February 2001,
- "Extension of manufacturer approval - Complementary tests - Hull plates up to 100mm thickness" dated May 2001,
- "Extension of manufacturer approval - Hull plates grade B as rolled conditions up to 50mm" dated July 2004,
- "Extension of manufacturer approval - Hull plates grade D in the NR conditions up to 90mm" dated July 2004,
- "Extension of manufacturer approval - Hull plates grade E TM processed up to 50mm" dated October 2004.

3.2 - Documents issued by NLMK Clabecq S.A.:

- Statistical datas for years 2021 and 2022, submitted on November 2022.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Materials Rules for Classification.

Slabs are to be supplied by 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 steel plates are to be supplied by NLMK Clabecq 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 Materials Rules for Classification.

7. OTHERS :

This certificate replaces approvals No.AC/B-04-03-217, and, approvals from No.11705/A0 BV to No.11705/D0 BV.

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