



Marine & Offshore

Certificate number: 10124/E0 BV

File number: MAT 2108/02

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

Ilseburger Grobblech GmbH
Ilseburg - GERMANY

for the type of product

NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled plates in steel grade A, B, D, 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: 21 Dec 2025

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 21 Dec 2020,

Jens Bauermeister



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	Killed and Al or Al+Nb fine grain treated	Normalized (N) with maximum thickness 100mm Controlled Rolled (CR) with maximum thickness 40mm
B	Killed and Al or Al+Nb fine grain treated	Normalized (N) with maximum thickness 85mm Controlled Rolled (CR) with maximum thickness 32mm
D	Killed and Al or Al+Nb fine grain treated	Normalized (N) with maximum thickness 85mm Controlled Rolled (CR) with maximum thickness 32mm
E	Killed and Al or Al+Nb fine grain treated	Normalized (N) with maximum thickness 85mm

No steelmaking.

2.DOCUMENTS AND DRAWINGS :

2.1 As per following documents issued by Ilseburger Grobblech GmbH:

- General information dated January 2016.
- Technological parameters "TP_A,B,D,E Rev.0" dated 09 September 2020.
- Manufacturing procedure for plates "MP_A,B,D,E Rev.0" and "Annex1" dated 09 September 2020.

3.TEST REPORTS :

3.1 - As per following documents issued by Ilseburger Grobblech GmbH:

- Test reports issued for approvals AC/D-07-05-258 and AC/D-12-01-219.
- "Test report of the salzgitter AG, Werk Ilseburg, for the approval of high strength steel EH36 Normalized" dated 16 March 2000.
- "Test report for the approval of the alloying composition Al-Nb-V NV E36-Normalised-100mm" dated 18 April 2006.
- Statistic data "SD_A - E Rev.0" dated 30 November 2020.

4.APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

Plates rolled from slabs supplied by Salzgitter Flachstahl GmbH or other steel manufacturer approved by BV for the type of steel to be rolled.

5.PRODUCTION SURVEY REQUIREMENTS :

5.1 - The rolled plates are to be supplied by Ilseburger Grobblech GmbH 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.

7.OTHERS :

This certificate replaces certificates of approval n°AC/D-07-05-258, AC/D-12-01-219, and from No.10124/A0 BV to No.10124/D0 BV.

*** END OF CERTIFICATE ***