



Marine & Offshore

Certificate number: 29587/B0 BV

File number: MAT 52835-2012

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

Public Joint Stock Company Magnitogorsk Iron & Steel Works
MAGNITOGORSK - RUSSIAN FEDERATION

for the type of product

NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled plates in steel grade A, B, D including Z25/Z35 grades.

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 is a renewal of certificate N° 29587/A0 BV expiring on 10/09/2017

This certificate will expire on: 10 Sep 2022

For Bureau Veritas Marine & Offshore,
At BV ST PETERSBURG, on 26 Jun 2017,
Valery Azovtsev



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 Fine grain treated with Al+Nb+Ti+V	Thermo-Mechanical rolling (TM) up to 65 mm
D (Z25/Z35)	Killed and Fine grain treated with Al+Nb+Ti+V	Thermo-Mechanical rolling (TM) up to 65 mm

Steelmaking by Basic Oxygen Furnace. Continuous casting.

2. DOCUMENTS AND DRAWINGS :

As per following documents issued by Magnitogorsk Iron & Steel Works

- General Information and manufacturing datas (Process Flow, Quality Control, Alloying Practice, Rolling Process) submitted on 2012.
- "Procedure of Automated Ultrasonic Inspection of Steel Plates with Testing Machine HP-B2/L2-TR3 by NDT Systems & Services" dated 16 November 2011.

3. TEST REPORTS :

As per following documents issued by Magnitogorsk Iron & Steel Works

- "Report on Certification Tests of Flat Products, 5000 MM Plate Mill, OJSC MMK, to determine compliance with Rules of Bureau Veritas" dated July 2012.
- Rolled stock certificates N°2012-112954-19080 and N°2012-112946-19140 dated 2012.
- "Statistical Test data for Shipbuilding steel plates produces at plate mill 5000mm and delivered as per DNV" for years 2010-2012.
- "Statistical Test data for Shipbuilding steel plates produces at plate mill 5000mm and delivered as per GOST R 52927-2008" for years 2010-2012.

As per following document issued by Public Joint Stock Company Magnitogorsk Iron & Steel Works

- "MMK Steel Mill 5000 Statistical datas for approval certificates renewal 2017" dated 08 June 2017.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

The rolled plates are to be supplied by Public Joint Company Magnitogorsk Iron & Steel Works in compliance with the type and the requirements described in this certificate. This type of product is within the category IBV of Bureau Veritas Rule Note NR320. BV product certificate is required.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules.

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

7. OTHERS :

This certificate replaces approval number 29587/A0 BV.

*** END OF CERTIFICATE ***