



Marine & Offshore

Certificate number: 21180/D0 BV

File number: MAT 61796-2009

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

Shanxi Taigang Stainless Steel Co. Ltd.
Taiyuan - CHINA

for the type of product

NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled coils and plates from coils in steel grades A, B and D.

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: 20 Jul 2029

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 20 Jul 2024,

Hong Zhang

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 and coils.

Steel grade	Deoxydation practice & Refining	Delivery conditions
A	Killed and fine grain treated with Al	Controlled Rolled (CR) range from 5mm up to 24mm
B	Killed and fine grain treated with Al	Controlled Rolled (CR) range from 5mm up to 24mm
D	Killed and fine grain treated with Al	Controlled Rolled (CR) range from 5mm up to 24mm

Steelmaking by Basic Oxygen Furnace (BOF) and LF refining. Continuous Casting.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by Shanxi Taigang Stainless Steel Co., Ltd:

- "Works approval document for BV of steel grades A, B, D, AH32, AH36, DH32 and DH36" dated October 2008.
- " Steel plate and plate from coil for BV certificate renewal document" dated January 2024.
- " Thickness specification and allowable deviation of carbon steel ship plate" dated 09 December 2010.

3. TEST REPORTS :

3.1 - Documents issued by Shanxi Taigang Stainless Steel Co., Ltd:

- "Works approval document for BV of steel grades A, B, D, AH32, AH36, DH32 and DH36" dated October 2008.
- Production tests for D and DH36 (CR) submitted 2024 and testing reports for plate Q235B, heat B1305224, dated 26 July 2023.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel plates and coils are to be supplied by Shanxi Taigang Stainless Co., Ltd. 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.

5.4 - For information, Shanxi Taigang Stainless Steel Co., Ltd has declared to Bureau Veritas the following production site:

Shanxi Taigang Stainless Steel Co. Ltd.

No.2 Jian Caoping Street,

Taiyuan,

Shanxi

030003 Taiyuan

CHINA

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

This certificate replaces approvals No.21180/A0 BV to No.21180/C0 BV.

It is Shanxi Taigang Stainless Steel Co., Ltd's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***