



Marine & Offshore

Certificate number: 11599/E0 BV

File number: MAT 1448/01

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

ACCIAIERIE D'ITALIA S.P.A.
TARANTO - ITALY

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled plates, coils and sheets in steel grades AH32/36, DH32/36 and EH32/36

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: 02 Aug 2027

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 02 Aug 2022,

Sandro BRUSEGAN

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, coils and sheets.

Steel grade	Type of product	Deoxydation practice & Refining	Delivery conditions
AH32, AH36 DH32, DH36	Plates	Killed and fine grain treated with Al + Nb + V	Thermomechanical Rolling (TMCP) up to 50mm
	Coils and sheets	Killed and fine grain treated with Al + Nb	Thermomechanical Rolling (TMCP) up to 10mm
EH32, EH36	Plates	Killed and fine grain treated with Al + Nb + V	Thermomechanical Rolling (TMCP) up to 50mm
		Killed and fine grain treated with Al + Nb	Thermomechanical Rolling followed by Accelerated Cooling (TMCP+AcC) up to 80mm

- Steelmaking by Basic Oxygen Linz-Donawitz Converter.
- Steel casting by continuous casting.
- Plates, coils and sheets making by Thermomechanical Rolling with or without accelerated cooling.

2. DOCUMENTS AND DRAWINGS :

2.1 - Documents issued by ILVA S.p.A.:

- "Traceability scheme N° DOC/7001N" dated 30/05/2008, "Sequence of operations N° PROC N004" dated 20/05/2008.
- "BV approval of the manufacturing process of metallic materials" Ref.BVS 01/17 Rev.0 dated 26/07/2017.

2.2 - Documents issued by Acciaierie d'Italia S.p.A.:

- "Plate thickness measurement" Doc. NO. PROC L005 Rev.0 dated 12/05/2021.

3. TEST REPORTS :

3.1 - Approval test reports issued by ILVA LAMIERE E TUBI SRL for certificates No.AR/I-02-08-228, AR/I-02-09-281

3.2 - Documents issued by ILVA S.p.A.:

- "Statistical report period 2007-2008", "Approval test program"QP/8800" dated 16/06/2008.

3.3 - Document issued by Acciaierie d'Italia S.p.A.:

- Statistical data for TMCP plates for years 2019-2021.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The steel plates, coils and sheets are to be supplied by Acciaierie d'Italia S.p.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 Rules for Classification.

7. OTHERS :

This certificate replaces approvals No.AR/I-02-08-228, AR/I-02-09-281 and from No. 11599/A0 BV to No.11599/D2 BV.

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