



Marine & Offshore
Division

Certificate number: 49116/A1 BV

File number: MAT 49775-2017

Product code: 9007I

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

INDUSTEEL FRANCE
CHATEAUNEUF - FRANCE

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled plates in steel grade EH36

Requirements:

Bureau Veritas Rules on Materials and Welding for the Classification of Marine Units

This certificate is issued to attest that BUREAU VERITAS 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: 03 Apr 2022

For BUREAU VERITAS,

At BV LYON, on 26 Apr 2017,

Jean-Marc Cabuzel



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. 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 Division 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 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 thick plates.

Steel grade	Deoxidation practice and refining	Delivery condition
EH36	Al-Killed and fine grain treated with Nb+V	Normalized (N) with thickness up to 250mm

Steelmaking by Electric Arc Furnace (EAF), Vacuum Degassing (VD). Ingot casting.
Plates rolled from ingots with minimum reduction ratio 3,75:1.

2. DOCUMENTS AND DRAWINGS :

As per following documents issued by Industeel France:

- "Presentation Industeel France" dated February 2017.
- "Liste des opérateurs certifiés en controle non destructif " dated 09 January 2017.
- "Organigramme contrôle qualité" submitted March 2017.
- "Technical Manufacturing program N° 0610-1703093 Rev.1" dated 06 April 2017.

3. TEST REPORTS :

As per following documents issued by Industeel France:

- "Qualification test program - EH36" and "Annex 1 to Annex 6" dated 13 September 2016.

4. APPLICATION / LIMITATION :

As per Rules for the Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

The rolled plates are to be supplied by Industeel France 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 Rules for the Classification.

7. OTHERS :

This certificate replaces approval N° 49116/A0 BV.

*** END OF CERTIFICATE ***