



Marine & Offshore
Division

Certificate number: 38062/B0 BV

File number: MAT 96995-2014

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

Altos Hornos de Mexico S.A.B. de C.V.
Monclova, Coahuila - MEXICO

for the type of product

NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

Rolled plates in steel grade A, B, D and E

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: 29 Apr 2019

For BUREAU VERITAS,

At BV PORT EVERGLADES CENTRE, on 24 Nov 2014,

Flavio Rosas



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 plates.

Steel grade	Deoxydation & Refining	Delivery conditions
A, B, D	Killed and Al treated	As Rolled (AR) thickness up to 35mm
D	Killed and Al treated	Thermo-Mechanically Control Process (TMCP) thickness range 35mm up to 50mm
E	Killed and Al treated	Thermo-Mechanically Control Process (TMCP) thickness range up to 50mm

Steelmaking by Basic Oxygen Furnace. Continuous casting.

2. DOCUMENTS AND DRAWINGS :

- Document reference No.26062014-01 issued by Altos Hornos de Mexico S.A.B. de C.V.
- General documentation "Indice de la carpeta de planeacion estrategice" issued by AHMSA Altos Hornos de Mexico S.A.B. de C.V.
- Document named "Manufactring process data for rolled product" and attached files from No. 1, No.2, No.3, No.4, No.5, No.6, No.7, No.8 and No.9 issued by AHMSA Altos Hornos de Mexico S.A.B. de C.V.

3. TEST REPORTS :

- Testing results as per test certificates dated 24/02/2014, 25/02/2014, 26/02/2014, 28/02/2014, 30/08/2014, Ref. 19082014-01 dated 19/08/2014 and issued by AHMSA Altos Hornos de Mexico S.A.B. de C.V.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

The steel plates are to be supplied by Altos Hornos de Mexico S.A.B. de C.V. 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 for Classification.

7. OTHERS :

This certificate replaces approval number 38062/A0 BV.

*** END OF CERTIFICATE ***