



Marine & Offshore

Certificate number: 12712/D0 BV

File number: MAT 3213/01

Product code: 90071

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

LAMINADOS LOSAL S.A.

Guernica (Vizcaya) - SPAIN

for the type of product

HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Bulb flats made of steel grade AH36 or DH36

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: 19 Jul 2023

For Bureau Veritas Marine & Offshore,

At BV MADRID, on 19 Jul 2018,

Montserrat Espin



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 bulb flats.

Steel grade	Deoxydation practice & refining	Delivery conditions
AH36 - DH36	Killed and fine grain treated with Al or V	As Rolled (AR) from 4mm up to 10mm

No steelmaking.

Billets are supplied by Rugui Melt S.L.U.

2. DOCUMENTS AND DRAWINGS :

As per following documents issued by LAMINADOS LOSAL S.A. :

- "Approval of a plant for manufacturing bulb flats for shipping use" dated January 1999.

- "Application form for modification and/or renewal of type approval certificate" dated 15 May 2018.

3. TEST REPORTS :

As per following documents issued by LAMINADOS LOSAL S.A. :

- "Approval of a plant for manufacturing bulb flats for shipping use" dated January 1999.

- Statistics of chemical composition and mechanical properties of grade AH36 and DH36 with Al or V, submitted 2013.

- "Estadísticas-RUGUI" submitted July 2018.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification. Billets are to be supplied by steel mills approved by Bureau Veritas for the steel grade to be produced.

5. PRODUCTION SURVEY REQUIREMENTS :

The bulb flats are to be supplied by LAMINADOS LOSAL S.A. 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 approvals numbers 12712/A0 BV to 12712/C0 BV.

*** END OF CERTIFICATE ***