



**BUREAU
VERITAS**

Istanbul, 18.12.2008

Our Ref: NC/LI/4010/GY/08

**EREĞLİ DEMİR VE ÇELİK FABRİKALARI
T.A.S..**

Attn. Mr.Kamber AYGÖREN

**Subject: ERDEMİR EREĞLİ DEMİR VE ÇELİK FAB. T.A.S.
NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS
TYPE APPROVAL CERTIFICATE
Certificate Number: 18044/A0 BV**

Dear Sirs,

We are sending you the certificate listed below which have been approved by us and which are intended for your use.

Best regards,


GÜRÇAN YILMAZ

Encls: (1 Copy)

- Bureau Veritas Marine Division Type Approval Certificate (2 pages)

BUREAU VERITAS GÖZETİM HİZMETLERİ LTD. ŞTİ.

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Bölgesi 10020 Sok. A Blok
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Bursa Bölgesi
F.S.M Bulvarı Cumhuriyet Mah.
Nilüfer Hatun Cad. Selin Sitesi B
Blok D:1 Kat:1 Nilüfer / Bursa
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MARINE DIVISION

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92200 Neuilly-sur-Seine - France

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Certificate number: 18044/A0 BV

File number : MAT 11442 - 2008

Product code : 9006I

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

APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

EREGLI DEMIR VE CELIK FABRIKALARI T.A.S.

Zonguldak - TURKEY

for the product

NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

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

Regulations and standards :

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 of the Regulations and standards mentioned above.

This certificate is valid until : 19 Nov 2013

At Neuilly, on : 19 Nov 2008

For BUREAU VERITAS,
By order of the Secretary

L.COURREGELONGUE

Approval office



Local office : BV ISTANBUL

Surveyor : G. Yilmaz



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 Division. 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 coils, plates from coils and heavy plates.

Steel grade	Deoxydation practice & Refining	Delivery conditions
A	Killed and fine grain treated with Al	As Rolled (AR) up to 60mm for plates Controlled Rolled (CR) up to 15mm for coils and plates from coils
B	Killed and fine grain treated with Al	As Rolled (AR) up to 60mm for plates Controlled Rolled (CR) up to 15mm for coils and plates from coils
D	Killed and fine grain treated with Al	Controlled Rolled (CR) up to 15mm for plates Controlled Rolled (CR) up to 8mm for coils and plates from coils Normalized (N) up to 60mm for plates Normalized (N) up to 15mm for coils and plates from coils
E	Killed and fine grain treated with Al	Normalized (N) up to 15mm for coils and plates from coils Normalized (N) up to 60mm for plates

Steelmaking by Basic Oxygen Furnace.
Continuous Casting.

2. DOCUMENTS AND DRAWINGS :

- "Information for approval of Ereğli Iron and Steel Works Co. (Eređemir) for normal and higher strength hull steel grades of A, B, D, E, AH32, AH36, DH32, DH36, EH32, EH36, FH32, FH36" issued by Ereğli Demir Ve Celik Fabrikalari T.A.S.

3. TEST REPORTS :

- "Approval test" issued by Ereğli Demir Ve Celik Fabrikalari T.A.S. and dated 25 June 2007.
- "Drop weight test" issued by Ereğli Demir Ve Celik Fabrikalari T.A.S. and dated 15 May 2007.

4. APPLICATION / LIMITATION :

As per Bureau Veritas Rules for Classification.

5. PRODUCTION SURVEY REQUIREMENTS :

The steel coils and plates are to be manufactured, examined and tested by Ereğli Demir Ve Celik Fabrikalari T.A.S. in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

Arrangements shall be made for a Society's Surveyor to attend the relevant tests and examinations at manufacturer's works or to perform the relevant audits when an alternative survey scheme (BV Mode I) has been agreed. Relevant Bureau Veritas certificate will be issued after satisfactory completion of the procedure.

6. MARKING OF PRODUCT :

As per Bureau Veritas Rules for Classification.

7. OTHERS :

Nil.

*** END OF CERTIFICATE ***

19/11/2008

 G. YILMAZ