



Marine &amp; Offshore

Certificate number: 18044/C0 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

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## APPROVAL CERTIFICATE for MATERIALS

This certificate is issued to

**EREGLI DEMIR VE CELIK FABRIKALARI T.A.S.**  
Zonguldak - TURKEY

for the type of product

### NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled coils, plates from coils and heavy plates in steel grades 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 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 is a renewal of certificate N° 18044/B0 BV expiring on 24/12/2018

**This certificate will expire on: 24 Dec 2023**

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 02 Nov 2018,

Soner Sari



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 coils, plates from coils and heavy plates.

<b>Steel grade</b>	<b>Deoxydation practice &amp; Refining</b>	<b>Delivery conditions</b>
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 :**

As per document issued by Ereğli Demir Ve Çelik Fabrikalari T.A.S.

- "Information for approval of Ereğli Iron and Steel Works Co. (Eredemir) for normal and higher strength hull steel grades of A, B, D, E, AH32, AH36, DH32, DH36, EH32, EH36, FH32, FH36" submitted 2008.

### **3. TEST REPORTS :**

As per documents issued by Ereğli Demir Ve Çelik Fabrikalari T.A.S.

- "Approval test" dated 25 June 2007.

- "Drop weight test" dated 15 May 2007.

### **4. APPLICATION / LIMITATION :**

As per Bureau Veritas Rules for Classification.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The steel coils and plates are to be supplied by Ereğli Demir Ve Çelik Fabrikalari T.A.S 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 N°18044/A0 BV, and, N°18044/B0 BV.

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