



Marine & Offshore  
Division

Certificate number: 12475/C0 BV

File number: MAT 27507/01

Product code: 9007I

*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*

**ARCELORMITTAL BELVAL & DIFFERDANGE S.A.**  
Esch-Sur-Alzette - LUXEMBOURG

*for the type of product*

### HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS

Hot rolled sections made of steel grades AH36, DH36 or 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: 14 Sep 2020**

**For BUREAU VERITAS,**

At BV ANTWERP, on 14 Sep 2015,

Nele Appels



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](http://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 sections.

<b>Steel grade</b>	<b>Deoxydation practice &amp; Refining</b>	<b>Delivery conditions</b>
AH36	Killed and fine grain treated with Al+Nb or Al+V	Thermomechanical Rolling (TMCP) named Quenching and Self-Tempering process (QST) up to 42.7mm
DH36	Killed and fine grain treated with Al+Nb or Al+V	Thermomechanical Rolling (TMCP) named Quenching and Self-Tempering process (QST) up to 42.7mm
EH36	Killed and fine grain treated with Al+Nb or Al+V	Thermomechanical Rolling (TMCP) named Quenching and Self-Tempering process (QST) up to 42.7mm

Steelmaking by Electric Arc Furnace, capacity 155 tons.

Continuous casting.

Sections made by hot rolling with QST process.

### **2. DOCUMENTS AND DRAWINGS :**

- "Works approval by Bureau Veritas" issued by ArcelorMittal Belval & Differdange S.A. and dated April 2002.

- "Manufacturing procedure specification (MPS) - DOC N°SMI-DI-P-GQ-QP-001 Rev.7" issued by ArcelorMittal Belval & Differdange & Rodange and dated 01 December 2014.

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

- "Works approval by Bureau Veritas" issued by ArcelorMittal Belval & Differdange S.A. and dated April 2002.

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

As per Bureau Veritas Rules for Classification.

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

The steel sections are to be supplied by ArcelorMittal Belval & Differdange 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 number 12475/A0 BV dated 18 October 2002 and 12475/B0 dated 08 March 2010.

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