



Marine &amp; Offshore

Certificate number: 09884/E0 BV

File number: MAT 1776/01

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*

**DILLINGER FRANCE**

Dunkerque - FRANCE

*for the type of product*

### **NORMAL STRENGTH HULL STEEL ROLLED PRODUCTS**

Hot rolled plates in steel grades A, B, D, E including quality Z25 and Z35 for grades 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 will expire on: 28 Jan 2026**

**For Bureau Veritas Marine & Offshore,**

At BV VALENCIENNES, on 28 Jan 2021,

Lucien Fratini



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](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 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 plates.

Steel grade	Deoxydation practice & Refining	Delivery conditions
A	Si-Al Killed	As Rolled (AR) with maximum thickness 100mm Normalised (N) with maximum thickness 100mm Normalising Rolled (NR) with maximum thickness 80mm
B	Si-Al Killed	Normalised (N) with maximum thickness 100mm Normalising Rolled (NR) with maximum thickness 80mm
D (Z25/Z35)	Si-Al Killed and fine grain treated with Al	Normalised (N) with maximum thickness 100mm Normalising Rolled (NR) with maximum thickness 80mm
E (Z25/Z35)	Si-Al Killed and fine grain treated with Al	Normalised (N) with maximum thickness 80mm Normalising Rolled (NR) with maximum thickness 80mm

No Steelmaking.

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

2.1 - As per following documents issued by Dillinger France:

- "Dillinger France, a plate mill of Dillinger Group" dated 09 October 2020.
- "Quality Management system" dated 09 October 2020.
- "Laboratory Qualités- Essais" dated 09 October 2020.
- "Integrated Management Manual Rev.5.0" dated April 2019.

2.2 - As per following documents issued by GTS INDUSTRIES:

- "GTS Plates Material Approval Extension Request - Ordinary Hull Grades" submitted 2000.
- Weldability test results dated June 1991.
- "Occidental piper field redevelopment project - Metallurgical results" dated November 1990.

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

3.1 - As per following documents issued by GTS INDUSTRIES:

- "GTS Plates Material Approval Extension Request - Ordinary Hull Grades" submitted 2000.

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

As per Bureau Veritas Rules for Classification.

Slabs supplied by AG der Dillinger Hüttenwerke or other steelsmith approved by Bureau Veritas for the type of steel to be produced.

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

5.1 - The steel plates are to be supplied by Dillinger France 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 number AC/F-04-04-110, AC/F-04-11-191, AC/F-04-12-193, AC/F-04-09-164 and approvals number from No.09884/B0 BV to No.09884/D0 BV.

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



Marine &amp; Offshore

BUREAU  
VERITAS

Certificate number: 09885/D0 BV

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## APPROVAL CERTIFICATE for MATERIALS

*This certificate is issued to*

**DILLINGER FRANCE**

Dunkerque - FRANCE

*for the type of product*

**HIGHER STRENGTH HULL STEEL ROLLED PRODUCTS**

Hot rolled plates in steel grades AH32, DH32, EH32, AH36, DH36, EH36 including Z25 and Z35

**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: 28 Jan 2026**

**For Bureau Veritas Marine & Offshore,**

At BV VALENCIENNES, on 28 Jan 2021,

Lucien Fratini



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](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 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 plates.

<b>Steel grade</b>	<b>Deoxydation practice &amp; Refining</b>	<b>Delivery conditions</b>
AH32 - DH32 - EH32 (Z25/Z35)	Killed and fine grain treated with Al	Normalised (N) with maximum thickness 70mm Normalising Rolled (NR) with maximum thickness 50mm Thermomechanical rolling (TMCP) with thickness range 8mm to 75mm
AH36 - DH36 - EH36 (Z25/Z35)	Killed and fine grain treated with Al+Nb	Normalised (N) with maximum thickness 70mm Normalising Rolled (NR) with maximum thickness 70mm Thermomechanical rolling (TMCP) with thickness range 8mm to 75mm

No Steelmaking.

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

2.1 - As per following documents issued by Dillinger France:

- "Dillinger France, a plate mill of Dillinger Group" dated 09 October 2020.
- "Quality Management system" dated 09 October 2020.
- "Laboratory Qualités- Essais" dated 09 October 2020.
- "Integrated Management Manual Rev.5.0" dated April 2019.

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

3.1 - As per following documents issued by GTS INDUSTRIES:

- "Approval request for the supply of steel plates of grades AH36, DH36 and EH36, 75mm thick delivered in the thermomechanically rolled condition" dated December 2000.
- "Statistic data" dated August to December 2004.
- "Approval request for the supply of steel plates of grades AH32, DH32, EH32, AH36, DH36 and EH36, for the 8mm to 50mm thickness range delivered in the thermomechanically rolled condition" dated January 1994.
- Weldability test results dated June 1991.
- "Occidental piper field redevelopment project - Metallurgical results" dated November 1990.

3.2 - As per following documents issued by Dillinger France:

- Welding laboratory report 19/2002 Rev.1 dated 21 July 2002.
- Statistic data dated 10 November 2020.

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

As per Bureau Veritas Rules for Classification.

Slabs supplied by AG der Dillinger Hüttenwerke or other steelmaker approved by Bureau Veritas for the type of steel to be produced.

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

5.1 - The steel plates are to be supplied by Dillinger France 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 number AR/F-02-01-15, AR/F-02-06-93, AR/F-02-08-152, AR/F-02-12-164, AR/F-02-13-191/1, AR/F-02-13-191/2, AR/F-02-02-17/1, AR/F-02-02-17/2, AR/F-02-14-252 and approvals number from No.09885/A0 BV to No.09885/C0 BV.

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