



Marine &amp; Offshore

Certificate number: 43315/B0 BV

File number: MAT 69883-2015

Product code: 9011I

*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*

**C.S. Aluminium Corporation**

Kaohsiung, Taiwan

*for the type of product*

**WROUGHT ALUMINIUM ALLOY PRODUCTS**

Rolled plates in aluminium alloys grades 5083, 5383 and 5086.

### 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° 43315/A2 BV expiring on 12/01/2021*

**This certificate will expire on: 12 Jan 2026**

**For Bureau Veritas Marine & Offshore,**

At BV TAIPEI, on 08 Nov 2020,

R.c. YIN



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 :**

Aluminum alloys rolled plates.

Aluminium grade	Temper Condition	Maximum thickness
5083	O - H111 - H112 - H116 - H321	50 mm
5086	O - H111 - H112 - H116	50 mm
5383	H111 - H321	20 mm
5383	O - H116	50 mm

Alloy making by Melting furnace. Direct chill casting. Plates made by hot rolling.

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

As per following documents issued by C.S. Aluminium Corporation:

- "Application for approval test for wrought aluminium alloy plates and sheet" dated October 2015.

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

As per following documents issued by C.S. Aluminium Corporation:

- "Application for approval test for wrought aluminium alloy plates and sheet – grade 5083" dated October 2015.
- "Application for approval test for wrought aluminium alloy plates and sheet – grade 5086" dated October 2015.
- "Application for approval test for wrought aluminium alloy plates and sheet – grade 5383" dated October 2015.
- Statistical datas for grade 5083-O dated 2015.
- Statistical datas for grade 5083-H112 dated 2015.
- "Application for approval test for wrought aluminium alloy plates and sheet – grade 5083" dated November 2017.
- "Application for approval test for wrought aluminium alloy plates and sheet – grade 5086" dated November 2017.
- "Application for approval test for wrought aluminium alloy plates and sheet – grade 5383" dated November 2017.

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

As per Bureau Veritas Rules for Classification.

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

5.1 - The rolled plates are to be supplied by C.S. Aluminium Corporation 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 from No.43315/A0 BV to No.43315/A2 BV.

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