



Marine & Offshore

Certificate number: 62553/A0 BV

File number: MAT 113992-2020

Product code: 90111

*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*

**HYDRO EXTRUSION ALBI**  
LE GARRIC - FRANCE

*for the type of product*

**WROUGHT ALUMINIUM ALLOY PRODUCTS**

Extruded products made in aluminium alloys 6060-T6, 6082-T6 and 6005A-T6.

**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: 02 Nov 2025**

**For Bureau Veritas Marine & Offshore,**

At BV BORDEAUX, on 02 Nov 2020,

Gabriel ZIMMER



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 :**

Extruded products.

<b>Aluminium alloy grade and temper condition</b>	<b>Type of product</b>	<b>Maximum cross section</b>
6060-T6 (EN 573-3 and EN 755-2)	Open profiles	Cross section up to 1580mm <sup>2</sup>
	Closed profiles	Cross section up to 3640mm <sup>2</sup>
6082-T6	Open profiles	Cross section up to 1580mm <sup>2</sup>
	Closed profiles	Cross section up to 3360mm <sup>2</sup>
6005A-T6	Open profiles	Cross section up to 2450mm <sup>2</sup>
	Closed profiles	Cross section up to 3320mm <sup>2</sup>

No alloy making. Profiles are extruded through a steel die and by means of a hydraulic press. Ageing heat treatment in a gas furnace.

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

- 2.1 - Document issued by Hydro Extrusion Albi:  
 - "Dossier d'approbation NR 480" dated 04 September 2020.  
 - Documents submitted on 08 September 2020.

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

- 3.1 - Test report issued by Hydro Extrusion Albi:  
 - "Dossier d'approbation NR 480" dated 04 September 2020.  
 - Documents submitted on 13 October 2020.

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

As per Bureau Veritas Rules for Classification. Billets are supplied by Hydro Aluminium Extrusion Services S.a.r.l.; Hydro Aluminium Clervaux SA; Hydro Extrusion Spain S.A.U. ; Hydro Extrusion Lichtervelde; Kramoy Primary Production; Hydro Sundal metallverk; Hydro Husnes; Hydro Aluminium AS Ardal; Hydro Aluminium a.s. Hoyanger. Billets used for the manufacture of extruded products are to be with manufacturer's certificate as a minimum.

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

- 5.1 - The aluminium alloy products are to be supplied by Hydro Extrusion Albi 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 :**

Nil.

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