

## APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM000021K Revision No: 2

This is to certify:

## That Grupo Aluminios De Precision S.L. Calle Merindad de Cuesta Urria, 26, 09001 Burgos, Spain

is an approved manufacturer of Aluminium Alloy Castings

in accordance with DNV rules for classification – Ships DNV class programme – DNV-CP-0250 Aluminium alloy castings

and the following particulars:

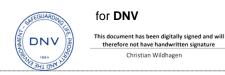
| Application area         | Aluminium Alloy Castings |  |
|--------------------------|--------------------------|--|
| Alloys                   | EN AC-42100,             |  |
|                          | EN AC-42200,             |  |
|                          | EN AC-43100              |  |
| Manufacturing method     | See page 2               |  |
| Max. weight              | See page 2               |  |
| Heat treatment condition | See page 2               |  |

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at Hamburg on 2024-05-13

This Certificate is valid until **2027-04-30**. DNV local unit: **Area NB/CMC Iberia** 

Approval Engineer: Torben Schälicke



LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.





## Particulars of the approval

## **Aluminium Alloy Castings**

| Grade <sup>3)</sup> | Casting method <sup>1)</sup> | Max. weight [kg] | Heat treatment condition <sup>2)</sup> |
|---------------------|------------------------------|------------------|----------------------------------------|
| EN AC-42100         | SC                           | 500              | Т6                                     |
| EN AC-42200         | SC                           | 500              | Т6                                     |
| EN AC-43100         | SC                           | 500              | F, T6                                  |

Remarks:

1) SC: Sand casting F: Cast condition;

2)

T6: solution annealed and completely artificially aged