



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000011H**  
Revision No:  
**3**

This is to certify:

That  
**REINOSA FORGINGS & CASTINGS, S.L.**  
Alejandro Calonge 1, 39200 Reinosa, Cantabria,  
Spain

is an approved manufacturer of  
**Steel Castings**

in accordance with  
**DNV rules for classification – Ships**  
**DNV-OS-B101 – Metallic materials**  
**DNV class programme – DNV-CP-0246 Steel castings**

and the following particulars:

|                                 |   |
|---------------------------------|---|
| <b>Application area</b>         | <b>Castings for hull structures and equipment</b> |
| <b>Steel type(s)</b>            | <b>Casting for machinery</b>                      |
| <b>Casting method</b>           | <b>Carbon and Carbon-Manganese</b>                |
| <b>Max. weight</b>              | <b>Sand casting</b>                               |
| <b>Heat treatment condition</b> | <b>110 000 kg</b>                                 |
|                                 | <b>See page 2</b>                                 |

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 **2024-07-02**

This Certificate is valid until **2027-06-30**.

DNV local unit: **Area NB/CMC Iberia**

Approval Engineer: **Stefan Röhr**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature  
Christian Wildhagen

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.



Form code: AM 311

Revision: 2022-12

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## Particulars of the approval

### Castings for hull structure and equipment

| Steel type | Grade <sup>3)</sup>  | Casting method <sup>1)</sup> | Max. weight [kg] | Heat treatment condition <sup>2)</sup> |
|------------|--|------------------------------|------------------|--|
| C and C-Mn | NV C400UW, NV C440UW, NV C480UW, NV C520UW, NV C560UW, NV C600UW | SC                           | 110 000          | N, NT, QT                              |

### Castings for machinery

| Steel type | Grade <sup>3)</sup>  | Casting method <sup>1)</sup> | Max. weight [kg] | Heat treatment condition <sup>2)</sup> |
|------------|--|------------------------------|------------------|--|
| C and C-Mn | NV C400U, NV C440U, NV C480U, NV C520U, NV C560U, NV C600U | SC                           | 110 000          | N, NT, QT                              |

#### Remarks:

- 1) SC: Sand Casting
- 2) N: Normalised  
 QT: Quenched and tempered  
 NT: Normalised and tempered
- 3) Including equivalent grades to other standards