

# APPROVAL OF MANUFACTURER CERTIFICATE

## This is to certify:

That

**Rugui Olvega S.L.U.**  
**Ólvega, Soria, Spain**

is an approved manufacturer of  
**Rolled Steel Products**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

|                                 |   |
|---------------------------------|---|
| <b>Application area</b>         | <b>Normal strength steel,<br/>High strength steel</b>     |
| <b>Products</b>                 | <b>Flat bars</b>  |
| <b>Manufacturing method</b>     | <b>Induction Furnace/Ladle Furnace/Continuous Casting</b> |
| <b>Max. thickness</b>           | <b>See page 2</b>   |
| <b>Heat treatment condition</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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2020-05-13**

for **DNV GL**

This Certificate is valid until **2023-05-12**.

DNV GL local station: **Bilbao**

Approval Engineer: **Stefan Röhr**

**Thorsten Lohmann**  
**Head of Section**

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **263.11-010504-1**  
Certificate No: **AMMM00002RN**

## Particulars of the approval

### Normal strength steel

| Grade | Product   | Steel making <sup>1)</sup> | Fine grain elements | Max. thickness [mm] | Heat treatment condition <sup>2)</sup> | Z-quality |
|-------|-----------|----------------------------|---------------------|---------------------|--|-----------|
| VL A  | Flat bars | IF + LF, CC                | -                   | 50                  | AR                                     | -         |

### High strength steel

| Grade  | Product   | Steel making <sup>1)</sup> | Fine grain elements | Max. thickness [mm] | Heat treatment condition <sup>2)</sup> | Z-quality |
|--|-----------|----------------------------|---------------------|---------------------|--|-----------|
| VL A32, VL A36,<br>VL D32, VL D36,<br>VL E32, VL E36 | Flat bars | IF + LF, CC                | Al+V or V           | 30                  | NR                                     | Z35       |

Remarks:

- <sup>1)</sup> IF: Induction Furnace; LF: Ladle Furnace; CC: Continuous Casting
- <sup>2)</sup> AR: As rolled; NR: Normalising Rolling