

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000017T**  
Revision No:  
**1**

## This is to certify:

That

**CELSA Manufacturing (UK) Ltd**  
**Section Mill, Tremorfa Works, Seawall Road,**  
**Tremorfa, Cardiff, CF24 5TH,**  
**United Kingdom**

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

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

and the following particulars:

<b>Application area</b>	<b>Normal strength steel,</b>
<b>Products</b>	<b>High strength steel</b>
<b>Manufacturing method</b>	<b>Structural sections,</b>
<b>Max. thickness / diameter</b>	<b>Bars,</b>
<b>Heat treatment condition</b>	<b>See page 2</b>
	<b>Electric arc furnace,</b>
	<b>Continuous casting</b>
	<b>See page 2</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 **2021-01-21**

for **DNV GL**

This Certificate is valid until **2022-12-31**.

DNV GL local station: **Bristol**

Approval Engineer: **Christian Wildhagen**

**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: **263.11-011162-1**  
Certificate No: **AMMM000017T**  
Revision No: **1**

## Particulars of the approval

### Normal strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition <sup>2)</sup>	Z-quality
VL A, VL B	Section	EAF, CC	-	25	AR	-
VL D	Section	EAF, CC	-	6	AR	-
VL A, VL B, VL D	Bar	EAF, CC	Al+V	50	AR	-
			-	25	AR	-

### High strength steel

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness / diameter [mm]	Heat treatment condition <sup>2)</sup>	Z-quality
VL A32, VL A36	Section	EAF, CC	Al+V	25	AR	-
VL D32, VL D36	Section	EAF, CC	Al+V	6	AR	-
VL A32, VL A36, VL D32, VL D36	Bar	EAF, CC	Al+V	50	AR	-

#### Remarks:

- <sup>1)</sup> EAF: Electric arc furnace  
CC: Continuous casting
- <sup>2)</sup> AR: as rolled