

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001A2**  
Revision No:  
**1**

**This is to certify:**

That

**Lech-Stahlwerke GmbH**  
**Industriestraße 1, 86405 Meitingen,**  
**Germany**

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>Steelmaking</b>
<b>Products</b>	<b>Semi-finished products for rolling or forging stock (billets, bars), Bars for chain cables</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese, Alloy</b>
<b>Manufacturing method</b>	<b>Electric arc furnace, continuous casting</b>
<b>Max weight [kg]</b>	<b>See page 2</b>
<b>Max. thickness / diameter</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 **2020-11-02**

for **DNV GL**

This Certificate is valid until **2023-04-05**.

DNV GL local station: **Augsburg**

Approval Engineer: **Andreas Koch**

**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: **263.11-003992-3**  
Certificate No: **AMMM00001A2**  
Revision No: **1**

## Particulars of the approval

### Semi-finished products

Steel type	Product	Steel making <sup>1)</sup>	Max weight [kg]	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>
C and C-Mn	Billet, bar	EAF, CC	2 600	240	AC, AR
Alloy	Billet, bar	EAF, CC	2 600	240	AC, AR

### Bars for chain cables

Steel type	Product	Steel making <sup>1)</sup>	Max. Thickness [mm]	Heat treatment condition <sup>2)</sup>
VL K2	Bars for chain cable	EAF, CC	130	AR
VL K3			130	

Remarks:

- 1) EAF: electric arc furnace  
CC: continuous casting
- 2) AC: As cast  
AR: As rolled