

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000026B**  
Revision No:  
**1**

## This is to certify:

That

**Z-Group, a.s.**  
**Rokycanská 204, CZ-33842 Hrádek,**  
**Czech Republic**

is an approved manufacturer of  
**Steelmaking**

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

and the following particulars:

<b>Application area</b>	<b>Steelmaking</b>
<b>Product</b>	<b>Semi-finished products; Ingots for tube making or rolling stock</b>
<b>Steel type</b>	<b>Carbon and carbon-manganese, Alloy</b>
<b>Steelmaking</b>	<b>Electric Arc Furnace, Ingot Casting</b>
<b>Deoxidation</b>	<b>Killed</b>
<b>Max. ingot weight</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>As cast</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 **2021-01-06**

for **DNV GL**

This Certificate is valid until **2023-12-31**.

DNV GL local station: **Ostrava**

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: **263.11-004355-3**  
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## Particulars of the approval

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### Semi-finished products

Steel type <sup>3)</sup>	Product	Steel making <sup>1)</sup>	Max weight [kg]	Heat treatment condition <sup>2)</sup>
C and C-Mn	Ingot	EAF, IC	5 000	AC
Alloy	Ingot	EAF, IC	5 000	AC

Remarks:

- 1) EAF: Electric arc furnace  
IC: Ingot casting
- 2) AC: as cast