



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM0000220**  
Revision No:  
**2**

This is to certify:

That

**TRINECKÉ ŽELEZÁRNY, a.s.**  
Průmyslová 1000, Staré Město, 739 61 Třinec,  
Czech Republic

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, High strength steel</b>
<b>Products</b>	<b>Structural sections</b>
<b>Manufacturing method</b>	<b>Basic oxygen converter, 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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2021-07-01**

This Certificate is valid until **2024-08-31**.

DNV local station: **Prague**

Approval Engineer: **Stefan Röhr**



for **DNV**

Digitally Signed By: Wildhagen, Christian  
Location: DNV GL Hamburg, Germany  
Signing Date: 02.07.2021, on behalf of

**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 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

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## 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	Sections	BOC, CC	- / Al	50	AR	-
VL B	Sections	BOC, CC	Al	40	AR	-
VL D	Section	BOC, CC	Al	40	NR	-

### 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 D32	Sections	BOC, CC	Al+Nb	40	NR	-
VL A36, VL D36	Sections	BOC, CC	Al+Nb	40	NR	-

### Steels acc. other standards <sup>3) 4)</sup>

Grade	Product	Steel making <sup>1)</sup>	Fine grain elements	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>	Z-quality
Steel acc. to EN 10025-2						
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2	Sections	BOC, CC	acc. to standard	40	acc. to standard	-

### Remarks:

- 1) BOC: Basic oxygen converter; CC: Continuous casting
- 2) AR: As rolled; NR: Normalising rolling
- 3) Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules
- 4) Possible application and certification of any material to classed object is subject to case by case approval