



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00000MC**  
Revision No:  
**2**

This is to certify:

That

**TOS - MET slévárna a.s.**  
**Stankovského 1687, Celákovice,**  
**Czech Republic**

is an approved manufacturer of  
**Iron Castings**

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

and the following particulars:

<b>Iron type</b>	<b>Grey cast iron, Nodular cast iron</b>
<b>Casting method</b>	<b>Sand casting</b>
<b>Max. weight</b>	<b>12 500 kg</b>
<b>Max. thickness</b>	<b>200 mm</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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-06-24**

for **DNV**

This Certificate is valid until **2025-06-06**.

DNV local station: **Prague CMC**

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 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

Revision: 2021-03

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Page 1 of 2

## Particulars of the approval

### Cast iron

Iron type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Max. thickness [mm]	Heat treatment condition <sup>2)</sup>
Grey	200	SC	12 500	200	AC
	250	SC	12 500	200	AC
	300	SC	12 500	200	AC
	350	SC	12 500	200	AC
Nodular	NV NCI-1	SC	12 500	200	AC
	NV NCI-2	SC	12 500	200	AC
	NV NCI370	SC	12 500	200	AC
	NV NCI400	SC	12 500	200	AC
	NV NCI500-7	SC	12 500	200	AC
	NV NCI600-3	SC	12 500	200	AC
	NV NCI700	SC	12 500	200	AC
	NV NCI800	SC	12 500	200	AC

### Remarks:

- <sup>1)</sup> SC: Sand casting
- <sup>2)</sup> AC: As cast
- <sup>3)</sup> Incl. equivalent grades in acc. to other standards