

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00001YZ**  
Revision No:  
**3**

This is to certify:

That

**Wagnerguss GmbH**  
**Dr. Karl Rennerstraße 18, 4470 Enns,**  
**Austria**

is an approved manufacturer of  
**Iron Castings**

in accordance with

**DNV rules for classification – Ships**  
**DNV class programme – DNV-CP-0249 Iron castings**

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>6 500 kg</b>
<b>Max. wall thickness</b>	<b>200 mm</b>
<b>Heat treatment condition</b>	<b>See particulars of the approval</b>
<b>Additional approval conditions</b>	<b>See particulars of the approval</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 **2024-05-31**

This Certificate is valid until **2027-03-31**.

DNV local unit: **Augsburg**

Approval Engineer: **Andrzej Otrebski**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature

Christian Wildhagen

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.



## Particulars of the approval

### Cast iron:

Iron type	Grade	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Grey	200	SC	6 500	200	AC
	250	SC	6 500	200	AC
	300	SC	6 500	200	AC
	EN-GJL-200 acc. EN 1561	SC	6 500	200	AC
	EN-GJL-250 acc. EN 1561	SC	6 500	200	AC
	EN-GJL-300 acc. EN 1561	SC	6 500	200	AC
Nodular	NV NCI-1	SC	6 500	200	AC, F
	NV NCI-2	SC	6 500	200	AC, F
	NV NCI 370	SC	6 500	200	AC
	NV NCI 400	SC	6 500	200	AC
	NV NCI 500	SC	6 500	200	AC
	NV NCI 600	SC	6 500	200	AC
	NV NCI 700	SC	6 500	200	AC
	NV NCI 800	SC	6 500	200	AC
	EN-GJS-350-22-LT acc. EN 1563	SC	6 500	200	AC, F
	EN-GJS-350-22-RT acc. EN 1563	SC	6 500	200	AC, F
	EN-GJS-400-18-LT acc. EN 1563	SC	6 500	200	AC, F
	EN-GJS-400-18-RT acc. EN 1563	SC	6 500	200	AC, F
	EN-GJS-350-22 acc. EN 1563	SC	6 500	200	AC
	EN-GJS-400-18 acc. EN 1563	SC	6 500	200	AC
	EN-GJS-450-10 acc. EN 1563	SC	6 500	200	AC
	EN-GJS-400-15 acc. EN 1563	SC	6 500	200	AC
	EN-GJS-500-7 acc. EN 1563	SC	6 500	200	AC
	EN-GJS-600-3 acc. EN 1563	SC	6 500	200	AC
	EN-GJS-700-2 acc. EN 1563	SC	6 500	200	AC
	EN-GJS-800-2 acc. EN 1563	SC	6 500	200	AC

### Remarks:

- <sup>1)</sup> SC: Sand casting  
<sup>2)</sup> AC: As cast  
 F: Ferritizing