

## APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMMM00002VE** Revision No:

This is to certify:

That

Giesserei Heunisch GmbH Westheimer Str. 6, 91438 Bad Windsheim, Germany

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:

Iron type Grey cast iron,

Nodular cast iron

Casting method Sand casting
Max. weight See page 2
Max. wall thickness See page 2
Heat treatment condition See page 2

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 2024-02-15

This Certificate is valid until 2027-04-20.

DNV local unit: Augsburg

Approval Engineer: Christian Wildhagen



for **DNV** 

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

Stefan Röhr

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.



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263.11-011145-2 AMMM00002VE

## Particulars of the approval

## Cast iron

Iron type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Grey	200	SC	700	60	AC
	250	SC	700	60	AC
	300	SC	700	60	AC
Nodular	NV NCI-2	SC	700	60	AC
	NV NCI 400	SC	700	60	AC
	NV NCI500-7	SC	700	60	AC
	NV NCI600-3	SC	700	60	AC
	NV NCI 700	SC	700	60	AC
	NV NCI 800	SC	700	60	AC
	EN-GJS-400-18-LT acc. EN 1563	SC	700	60	AC
	EN-GJS-400-18-RT acc. EN 1563	SC	700	60	AC
	EN-GJS-400-18 acc. EN 1563	SC	700	60	AC
	EN-GJS-400-15 acc. EN 1563	SC	700	60	AC
	EN-GJS-450-10 acc. EN 1563	SC	700	60	AC
	EN-GJS-500-7 acc. EN 1563	SC	700	60	AC
	EN-GJS-600-3 acc. EN 1563	SC	700	60	AC
	EN-GJS-700-2 acc. EN 1563	SC	700	60	AC
	EN-GJS-450-18 acc. EN 1563 4)	SC	700	60	AC
	EN-GJS-SiMo40-10 acc. EN 16124 4)	SC	700	60	AC

## Remarks:

- SC: Sand casting
- 2) AC: As cast
- 3) Incl. equivalent grades in acc. to other standards
- Possible application and certification of any material to classed object is subject to case by case approval

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