



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000WH
Revision No:
2

This is to certify:

That

J.D. Brackelsberg GmbH
Heilenbecker Str. 117-121, 58256 Ennepetal,
Germany

is an approved manufacturer of
Iron Castings

in accordance with
DNV rules for classification – Ships

and the following particulars:

Iron type	Grey cast iron, Nodular cast iron
Casting method	Sand casting
Max. weight	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 **2022-08-25**

for **DNV**

This Certificate is valid until **2025-08-31**.

DNV local station: **Essen**

Approval Engineer: **Stefan Röhr**

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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Particulars of the approval

Cast iron

Iron type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Grey	200	SC	120	AC
	250	SC	120	AC
	300	SC	120	AC
	350	SC	120	AC
Nodular	NV NCI-1	SC	120	AC, F
	NV NCI-2	SC	120	AC, F
	NV NCI370	SC	120	AC
	NV NCI400	SC	120	AC
	NV NCI500-7	SC	120	AC
	NV NCI600-3	SC	120	AC
	NV NCI700	SC	120	AC
	NV NCI800	SC	120	AC

Remarks:

- ¹⁾ SC: Sand casting
- ²⁾ AC: As cast; F: Ferritizing
- ³⁾ Incl. equivalent grades in acc. to other standards, e.g. EN 1561 and EN 1563