



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00002A1
Revision No:
3

This is to certify:

That

Benninger Guss AG
CH-9240 Uzwil,
Switzerland

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, Investment 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 **2024-12-13**

This Certificate is valid until **2027-10-3**.

DNV local unit: **Augsburg**

Approval Engineer: **Stefan Röhr**



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 ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Grey	200	SC, IC	5 000	AC
	250	SC, IC	5 000	AC
	300	SC, IC	5 000	AC
Nodular	NV NCI-2	SC, IC	5 000	AC
	EN-GJS-400-18-LT	SC, IC	5 000	AC
	NV NCI 370	SC, IC	5 000	AC
	NV NCI 400	SC, IC	5 000	AC
	NV NCI 500	SC, IC	5 000	AC
	NV NCI 600	SC, IC	5 000	AC
	NV NCI 700	SC, IC	5 000	AC
	NV NCI 800	SC, IC	5 000	AC
	EN-GJS-900-2 acc. EN 1563 ⁴⁾	SC, IC	5 000	AC
	EN-GJS-XSiMo 4.1 ⁴⁾	SC, IC	5 000	AC

Remarks:

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