

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000NX
Revision No:
1

This is to certify:

That

Siempelkamp Giesserei GmbH
Siempelkampsstr. 45, 47803 Krefeld,
Germany

is an approved manufacturer of
Iron Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Iron type	Grey cast iron, Nodular cast iron
Casting method	Sand casting, Chill casting
Max. weight	See page 2
Heat treatment condition	See page 2
Additional approval conditions	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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-04-29**

for **DNV GL**

This Certificate is valid until **2022-03-31**.

DNV GL local station: **Essen**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-005749-2**
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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, CC	300 000	AC
	250	SC, CC	300 000	AC
	300	SC, CC	300 000	AC
	350	SC, CC	300 000	AC
Nodular	VL NCI-1	SC, CC	300 000	AC/F
	VL NCI-2	SC, CC	300 000	AC/F
	VL NCI 370	SC, CC	300 000	AC
	VL NCI 400	SC, CC	300 000	AC/F
	VL NCI 500	SC, CC	300 000	AC
	VL NCI 600	SC, CC	300 000	AC
	VL NCI 700	SC, CC	300 000	AC
	VL NCI 800	SC, CC	300 000	AC

Remarks:

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