

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000005V
Revision No:
1

This is to certify:**That****HegerGuss GmbH**
Donnersbergstr. 48, 67677 Enkenbach-Alsenborn

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
Max. weight	See page 2
Max. wall thickness	See page 2
Heat treatment condition	As cast, Ferritizing, 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.

This Certificate is valid until **2021-06-30**.

Issued at **Hamburg** on **2018-09-18**

DNV GL local station: **Augsburg**

Approval Engineer: **Enno Brück**



for **DNV GL**
Digitally Signed By: Wildhagen, Christian
Location: DNV GL Hamburg, Germany
Signing Date: 2018-09-18, on behalf of

Thorsten Lohmann
Head of Section

Job Id: **263.11-005290-2**
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Particulars of the approval

Cast iron

Iron type	Grade ³⁾⁴⁾	Casting method ¹⁾	Max. weight [kg]	Max. section / wall thickness [mm]	Heat treatment condition ²⁾
Grey	200	SC	20 000	200	AC
	250	SC	20 000	200	AC
Nodular	VL NCI-1	SC	20 000	200	F
	VL NCI-2	SC	20 000	200	F
	VL NCI 370	SC	20 000	200	AC
	VL NCI 400	SC	20 000	200	AC
	VL NCI 500	SC	20 000	200	AC
	VL NCI 600	SC	20 000	200	AC
	VL NCI 700	SC	20 000	200	AC
	VL NCI 800	SC	20 000	200	AC
	EN-GJS-350-22-RT acc. EN 1563	SC	20 000	200	F
	EN-GJS-400-18-RT acc. EN 1563	SC	20 000	200	F

Remarks:

- 1) SC: Sand casting
- 2) AC: As cast
F: Ferritizing
- 3) Certification of any material applied to classed object shall fulfil the applicable material requirements in the DNV GL class rules
- 4) Incl. equivalent grades in acc. to other standards