

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000YY
Revision No:
2

This is to certify:

That

Wolfensberger AG
Bauma, Switzerland

is an approved manufacturer of
Iron Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Iron type	Nodular Cast Iron, Austenitic Cast Iron
Casting method	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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-05-08**

This Certificate is valid until **2022-02-28**.

DNV GL local station: **Augsburg**

Approval Engineer: **Stefan Röhr**

for **DNV GL**

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Thorsten Lohmann
Head of Section



Job Id: **263.11-006041-4**
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Particulars of the approval

Cast Iron

Iron type	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Nodular	VL NCI-2	SC	1 500	AC
	VL NCI 370	SC	1 500	AC
	VL NCI 400	SC	1 500	AC
	EN-GJS-400-15 acc. to EN 1563	SC	1 500	AC
	EN-GJS-400-18-LT acc. to EN 1563	SC	1 500	AC
Austenitic	EN-GJSA-XNiSiCr30-5-5 ³⁾	SC	1 500	AC
	EN-GJSA-XNi35	SC	1 500	AC

Cast Iron acc. to manufacturer's spec.

Iron type	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Nodular	EN-GJS-XSiMo4.05 ³⁾	SC	1 500	F

Remarks:

- 1) SC: Sand casting or Exacast® process
- 2) AC: As cast; F: Ferritizing
- 3) Possible application and certification of any material to classed object is subject to case by case approval