

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001EU
Revision No:
1

This is to certify:

That

Meuselwitz Guss Eisengiesserei GmbH
04610 Meuselwitz, Industriepark Nord,
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
Max. weight	See page 2
Heat treatment condition	As cast, Annealed, 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 **2020-07-24**

for **DNV GL**

This Certificate is valid until **2023-06-30**.

DNV GL local station: **Magdeburg**

Approval Engineer: **Enno Brück**

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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **263.11-007426-3**
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Particulars of the approval

Cast iron

Iron type	Grade ⁴⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Grey	200	SC	80 000	AC / A
	250			
	300			
	EN-GJL-200 acc. to EN 1561 ³⁾			
	EN-GJL-250 acc. to EN 1561 ³⁾			
	EN-GJL-300 acc. to EN 1561 ³⁾			
Nodular	VL NCI-2	SC	80 000	AC / A
	VL NCI 400			
	VL NCI 500			
	VL NCI 600			
	VL NCI 700			
	EN-GJS-400-15 acc. to EN 1563			
	EN-GJS-450-10 acc. to EN 1563			
	EN-GJS-500-7 acc. to EN 1563			
	EN-GJS-600-3 acc. to EN 1563			
	EN-GJS-700-2 acc. to EN 1563			
	EN-GJS-400-18 LT acc. to EN 1563			
	EN-GJS-400-18 RT acc. to EN 1563			
	EN-GJS-400-18 acc. to EN 1563			
	EN-GJS-450-18 acc. to EN 1563 ³⁾			
	EN-GJS-500-14 acc. to EN 1563 ³⁾			
EN-GJS-600-10 acc. to EN 1563 ³⁾				

Remarks:

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