

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001F6
Revision No:
1

This is to certify:

That
vonRoll casting ag
Rondez 17, CH-2800 Delémont,
Switzerland

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	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 **2020-10-09**

for **DNV GL**

This Certificate is valid until **2023-07-31**.

DNV GL local station: **Augsburg**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Job Id: **263.11-003478-3**
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Particulars of the approval

Cast iron

Iron type	Grade	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Grey	200	SC	700	AC / *
	250			
	300			
	350			
	EN-GJL-200 acc. EN 1561			
	EN-GJL-250 acc. EN 1561			
	EN-GJL-300 acc. EN 1561			
	EN-GJL-350 acc. EN 1561			
Nodular	VL NCI-1	SC	700	AC / *
	VL NCI-2			
	VL NCI 370			
	VL NCI 400			
	VL NCI 500			
	VL NCI 600			
	VL NCI 700			
	VL NCI 800			
	EN-GJS-400-15 acc. EN 1563			
	EN-GJS-400-18 acc. EN 1563			
	EN-GJS-450-10 acc. EN 1563			
	EN-GJS-500-7 acc. EN 1563			
	EN-GJS-600-3 acc. EN 1563			
	EN-GJS-700-2 acc. EN 1563			
	EN-GJS-800-2 acc. EN 1563			
	GG5251 acc. client specification ³⁾			
	EN-GJS-XSiMo3.8-0.6 acc. client specification ³⁾			
	EN-GJS-XSiMo4-0,5 acc. client specification ³⁾			
EN-GJS-XSiMo4-1 acc. client specification ³⁾				
EN-GJSA-XNiSiCr35-5-2 acc. 13835 ³⁾				

Remarks:

- 1) SC: sand casting
- 2) AC: as cast
- *: acc. to client specification
- 3) Possible application and certification of any material to classed object is subject to case by case approval