

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM00000XE**  
Revision No:  
**1**

## This is to certify:

That

**WESO-Aurorahütte GmbH**  
**Aurorahütte 1, 35075 Gladenbach,**  
**Germany**

is an approved manufacturer of  
**Iron Castings**

in accordance with  
**DNV GL rules for classification – Ships**

and the following particulars:

<b>Iron type</b>	<b>Grey cast iron</b>
<b>Casting method</b>	<b>Sand casting</b>
<b>Max. weight</b>	<b>180 kg</b>
<b>Max. wall thickness</b>	<b>300 mm</b>
<b>Heat treatment condition</b>	<b>As cast</b>

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 **2019-07-12**

for **DNV GL**

This Certificate is valid until **2022-09-06**.

DNV GL local station: **Essen**

Approval Engineer: **Christian Wildhagen**

**Thorsten Lohmann**  
**Head of Section**



Job Id: **263.11-005243-2**  
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## Particulars of the approval

### Cast iron

Iron type	Grade <sup>3)</sup>	Casting method <sup>1)</sup>	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition <sup>2)</sup>
Grey cast iron	EN-GJL-200 acc. to EN 1561	SC	180	300	AC
	EN-GJL-250 acc. to EN 1561	SC	180	300	AC

#### Remarks:

- 1) SC: Sand casting
- 2) AC: As cast
- 3) Incl. equivalent grades in acc. to other standards