

# APPROVAL OF MANUFACTURER CERTIFICATE

## This is to certify:

That  
**Metallgießerei Gutschera GmbH**  
**Industriestr. 4, 59379 Selm,**  
**Germany**

is an approved manufacturer of  
**Aluminium Alloy Castings**

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

and the following particulars:

<b>Alloy type(s)</b>	<b>Aluminium alloys,</b> <b>see page 2</b>
<b>Max. weight</b>	<b>Sand casting: 750 kg,</b> <b>Chill casting: 85 kg</b>
<b>Remarks</b>	<b>See page 2</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 **2017-05-17**

for **DNV GL**

This Certificate is valid until **2020-05-31**.  
DNV GL local station: **Essen**

Approval Engineer: **Christian Wildhagen**

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



Job Id: **263.11-007204-1**  
Certificate No: **AMMM00001DC**

## Particulars of the approval

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### Aluminium alloy castings

Standard	Casting method <sup>1</sup>	Max weight [kg]	Delivery condition
EN 1706 <sup>2)</sup>	SC	750 kg	Acc. standard
	CC	85 kg	Acc. standard

Remarks:

- 1) SC: Sand Casting  
CC: Chill casting
- 2) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules