

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM0000R1
Revision No:
1

This is to certify:

That

Aleris Casthouse Germany GmbH
Voerde, Germany

is an approved manufacturer of
Aluminium Alloy Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Aluminium Casting Alloys
Products	Ingots intended for further processing (Sheets, Plates)
Alloys	See page 2
Manufacturing method	Ingot casting
Max. weight	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
Additional approval conditions	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 **2019-07-09**

for **DNV GL**

This Certificate is valid until **2022-06-30**.

DNV GL local station: **Essen**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section



Job Id: **263.11-006276-2**
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Particulars of the approval

Semi-finished products (ingots)

Grade	Casting method ¹⁾	Max. weight [kg]	Thickness [mm]	Delivery condition ²⁾
VL-5083	IC	13 000	600	AC
VL-5059	IC	13 000	600	AC
VL-5754	IC	13 000	600	AC
VL-5086	IC	13 000	600	AC
VL-5383	IC	13 000	600	AC

Remarks:

- 1) IC: Ingot casting
- 2) AC: As cast