

# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMMM000019F**  
Revision No:  
**1**

**This is to certify:**

**That**

**ST Extruded Products Germany GmbH  
Bonn, Germany**

is an approved manufacturer of  
**Wrought Aluminium and Aluminium Alloys**

in accordance with  
**DNV GL rules for classification – Ships  
DNVGL-OS-B101 – Metallic materials**

and the following particulars:

<b>Application area</b>	<b>Wrought Aluminium Alloys</b>
<b>Products</b>	<b>Extrusions</b>
<b>Manufacturing method</b>	<b>Extruded</b>
<b>Max. section/wall thickness</b>	<b>See page 2</b>
<b>Heat treatment condition</b>	<b>See page 2</b>
<b>Additional approval conditions</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 **2019-09-17**

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: **263.11-003956-3**  
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## Particulars of the approval

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### Wrought aluminium alloys

Grade <sup>1)</sup>	Product	Max. section / wall thickness [mm]	Heat treatment condition
VL-5083	Extrusions	50	O, H111, H112
VL-6005A	Extrusions	50	T4, T6
VL-6082	Extrusions	50	T4, T5, T6

Remarks:

<sup>1)</sup> Incl. equivalent grades according to other standards

### Additional approval conditions

Including LNG service for VL-5083 0