

# APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**AMAG Rolling GmbH**  
**RANSHOFEN, Austria**

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

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

and the following particulars:

<b>Product</b>	<b>Plates</b> <b>Sheets from coil</b> <b>Cladded and uncladded</b>
<b>Grade(s)</b>	<b>see particulars of the approval</b>
<b>Dimensions</b>	<b>see particulars of the approval</b>

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

This Certificate is valid until **2019-12-31**.

Issued at **Hamburg** on **2016-04-28**

DNV GL local station: **Augsburg**

Approval Engineer: **Christian Wildhagen**

for **DNV GL**

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

Job Id: 263.11-003545-2  
Certificate No: AMMM00000JO

## Particulars of the approval

### Wrought Aluminium and Aluminium Alloys

Grade	Temper	Thickness [mm], max.	Remark
<b>Sheets from coil, Cladded and uncladded</b>			
Base material: AW 3003 Clad material: AW 4004	H14	8	Intended for heat exchangers
<b>Plates</b>			
VL-5083	H111	150	For thicknesses over 50 mm mechanical properties shall be in accordance with a recognised standard.
VL-5083	H116	76.2	
VL-5083	H321	76.2	
VL-5086	H116	63.5	