

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000J0
Revision No:
1

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:

Application area
Products

Wrought Aluminium Alloys
Plates,
Sheets from coil
(cladded and uncladded)

Manufacturing method
Max. thickness
Heat treatment condition

Rolled
See page 2
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 **2019-12-27**

for **DNV GL**

This Certificate is valid until **2022-12-31**.

DNV GL local station: **Augsburg**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section



Job Id: **263.11-003545-3**
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Particulars of the approval

Wrought aluminium alloys

| Grade | Temper | Max. thickness [mm] | Remarks |
|--|--------|---------------------|--|
| Sheets from coil (cladded and uncladded) | | | |
| Base material: AW 3003 Clad material: AW 4004 | H14 | 8 | Intended for heat exchangers |
| Plates ¹⁾ | | | |
| 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-5083 | H116 | 63.5 | |

Remarks:

¹⁾ Incl. equivalent grades in acc. to other standards