



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000J0
Revision No:
2

This is to certify:

That

AMAG rolling GmbH
Lamprechtshausenerstr. 61, Ranshofen,
Austria

is an approved manufacturer of
Wrought Aluminium and Aluminium Alloys

in accordance with
DNV rules for classification – Ships
DNV class programme – DNV-CP-0248 Wrought aluminium alloys

and the following particulars:

Application area	Wrought Aluminium Alloys
Products	Plates, Sheets from coil (cladded and uncladded)
Manufacturing method	Rolled
Max. thickness	See page 2
Heat treatment condition	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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2023-02-20**

for **DNV**

This Certificate is valid until **2025-12-31**.

DNV local unit: **Augsburg**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Particulars of the approval

Wrought aluminium alloys

Grade	Temper	Max. thickness [mm]	Remarks
Sheets from coil (cladded and uncladded)			
Base material: AW 3003	H14	8	Intended for heat exchangers
Clad material: AW 4004, AMAG 40245 ²⁾			
Plates ¹⁾			
NV 5083	H111	150	For thicknesses over 50 mm, mechanical properties shall be in accordance with a recognised standard
NV 5083	H116	76.2	
NV 5083	H321	76.2	
NV 5086	H116	63.5	

Remarks:

- 1) Incl. equivalent grades in acc. to other standards
- 2) Acc. AMAG specification