



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001Z1
Revision No:
1

This is to certify:

That

Wieland-Werke AG
Graf-Arco-Straße 36
89079 Ulm,
Germany

is an approved manufacturer of
Wrought Copper and Copper Alloys

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Copper and copper alloy tubes
Alloy type(s)	Phosphorus-deoxidised Copper, Copper-Nickel, Aluminium brass, Admiralty brass
Manufacturing method	Seamless
Max. outer diameter	70 mm
Max. wall 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 **2021-05-11**

for **DNV**

This Certificate is valid until **2023-12-31**.

DNV local station: **Essen**

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.



Form code: AM 311

Revision: 2021-03

www.dnv.com

Page 1 of 2

Particulars of the approval

Copper and copper alloy tubes

Steel type	Manufacturing method	Max. outer diameter [mm]	Max. wall thickness	Heat treatment condition
Phosphorus-deoxidised copper	seamless	70	finned section max. 3 mm, unfinned section max. 8.5 mm	Acc. to applicable standard
Copper-Nickel				
Aluminium brass				
Admiralty brass				