



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001Z1
Revision No:
2

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 rules for classification – Ships
DNV class programme – DNV-CP-0253 Non-ferrous tubes

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 **2023-12-08**

for **DNV**

This Certificate is valid until **2026-12-31**.

DNV local unit: **Essen**

Approval Engineer: **Andreas Koch**

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Thorsten Lohmann
Head of Section

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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, un-finned section max. 8.5 mm	Acc. to applicable standard
Copper-Nickel				
Aluminium brass				
Admiralty brass				