APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

ELVALHALCOR
HELLENIC COPPER AND ALUMINIUM INDUSTRY S.A.
(Elval Aluminium Division)
ATHENS, **Greece**

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**
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 **2023-12-11**

for **DNV**

This Certificate is valid until **2026-01-31**.
DNV local unit: **Piraeus**

Approval Engineer: **Stefan Röhr**

Thorsten Lohmann
Head of Section

Particulars of the approval

Wrought aluminium alloys

Grade [1]	Product	Max. wall thickness [mm]	Heat treatment condition
NV-5083	plate	51	O
	plate	51	H111
	plate	51	H112
	plate	51	H116
	plate	60	H321
NV-5086	plate	50	H116
NV-5383	plate	25	H116
NV-5754	plate	13	H34

Remarks:

[1]   Incl. equivalent grades in acc. to other standards