

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000017H
Revision No:
4

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 GL rules for classification – Ships

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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2020-02-05**

for **DNV GL**

This Certificate is valid until **2023-01-31**.

DNV GL local station: **Piraeus**

Approval Engineer: **Stefan Röhr**

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Thorsten Lohmann
Head of Section

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Job Id: **263.11-007061-5**
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Particulars of the approval

Wrought aluminium alloys

Grade ^{1) 2)}	Product	Max. wall thickness [mm]	Heat treatment condition
VL-5083	plate	51	O
	plate	51	H111
	plate	51	H112
	plate	51	H116
	plate	51	H321
VL-5086	plate	50	H116
VL-5383	plate	25	H116
VL-5754	plate	13	H34

Remarks:

- 1) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 2) Incl. equivalent grades in acc. to other standards