

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

Dalishen Aluminum Co., Ltd.
No.8, West of Shenchang Road, Development Zone, Danyang,
China

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	Cold rolled, Hot rolled
Max. thickness	See page 2
Heat treatment condition	See page 2
Additional approval conditions	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 **2019-01-30**

for **DNV GL**

This Certificate is valid until **2022-01-29**.

DNV GL local station: **Nanjing**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Particulars of the approval

Wrought aluminium alloys

Grade ¹⁾²⁾	Product	Manufacturing method	Max. section / wall thickness [mm]	Heat treatment condition
VL 5052	Plate	Cold rolled	$3.0 \leq t \leq 6.0$	H32
		Cold rolled	$3.0 \leq t \leq 5.0$	O
		Hot rolled	$5.0 < t \leq 50.0$	
VL 5083	Plate	Cold rolled	$3.0 \leq t \leq 6.0$	H321
		Hot rolled	$6.0 < t \leq 12.5$	
		Hot rolled	$6.0 \leq t \leq 50.0$	H112
		Cold rolled	$3.0 \leq t \leq 5.0$	H111, O
		Hot rolled	$5.0 < t \leq 50.0$	
VL 5754	Plate	Cold rolled	$3.0 \leq t \leq 6.0$	H32
		Cold rolled	$3.0 \leq t \leq 5.0$	O, H111
		Hot rolled	$5.0 < t \leq 50.0$	

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