

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Hindalco Industries Ltd.
Alupuram Works, P.B. No.21,
Kalamassery - 683104, Ernakulam,
India**

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	Sections
Manufacturing method	Extruded,
Max. weight	See page 2
Max. section /wall 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 **2021-02-16**

for **DNV GL**

This Certificate is valid until **2024-02-15**.

DNV GL local station: **Mumbai**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Job Id: **263.11-011037-1**
Certificate No: **AMMM00002UC**

Particulars of the approval

Wrought aluminium alloys

Grade ¹⁾	Product	Max. section / wall thickness [mm]	Heat treatment condition
VL 6061, VL 6082	Extruded, solid (round, rectangular, square, hexagon)	120	T4, T5, T6
	Extruded, hollow (round, rectangular, square, hexagon)	35	T4, T5, T6
	Extruded profiles (Regular shapes)	15	T4, T5, T6

Remarks:

¹⁾ Incl. equivalent grades in acc. to other standards

Special conditions:

Including making of semi-finished products used for the extrusion process