



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000019F
Revision No:
2

This is to certify:

That
ST Extruded Products Germany GmbH
Friedrich-Wöhler-Straße 2,
53117 Bonn,
Germany

is an approved manufacturer of
Wrought Aluminium and Aluminium Alloys

in accordance with
DNV rules for classification – Ships
DNV-OS-B101 – Metallic materials

and the following particulars:

| | |
|---------------------------------------|---------------------------------|
| Application area | Wrought Aluminium Alloys |
| Products | Extrusions |
| Manufacturing method | Extruded |
| 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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2022-08-29**

for **DNV**

This Certificate is valid until **2025-06-30**.

DNV local station: **Essen**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: AM 311

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Particulars of the approval

Wrought aluminium alloys

| Grade ¹⁾ | Product | Max. section / wall thickness [mm] | Heat treatment condition |
|---------------------|------------|------------------------------------|--------------------------|
| NV 5083 | Extrusions | 50 | O, H111, H112 |
| NV 6005A | Extrusions | 50 | T4, T6 |
| NV 6082 | Extrusions | 50 | T4, T5, T6 |

Remarks:

¹⁾ Incl. equivalent grades according to other standards

Additional approval conditions

Including LNG service for NV 5083 0