



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM00000R2
Revision No:
4

This is to certify:

that

Novelis Casthouse Germany GmbH
Carl-Spaeter-Straße 10, 56070 Koblenz,
Germany

is an approved manufacturer of
Aluminium Alloy Castings

in accordance with

DNV rules for classification – Ships
DNV class programme – DNV-CP-0250 Aluminium alloy castings

and the following particulars:

Products	Semi-finished products for rolling stock (ingots), see page 2
Alloy type	Aluminium alloy, see page 2
Max. weight	20 000 kg

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 **2025-10-09**

This Certificate is valid until **2028-06-30**.

DNV local unit: **Essen**

Approval Engineer: **Andrzej Otrebski**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature

Christian Wildhagen

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 USD 300 000.

Particulars of the approval

Semi-finished products:

Grade	Product	Heat treatment / temper condition	Max. thickness [mm]	Max. weight [kg]
NV 5083 ¹⁾	Ingot	As cast	600	20 000
NV 5059 ¹⁾	Ingot	As cast	600	20 000
NV 5754 ¹⁾	Ingot	As cast	600	20 000
NV 5086 ¹⁾	Ingot	As cast	600	20 000
NV 5383 ¹⁾	Ingot	As cast	600	20 000

Remarks:

- ¹⁾ Aluminium grades cover the supply of semi-finished products for materials used for construction of vessels and their equipment. The final processing mill (Novelis Koblenz GmbH, Koblenz, Germany) is responsible for ordering semi-finished material which complies with their approved chemical composition and enables them to achieve the required mechanical properties.