

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMPM000000E
Revision No:
1

This is to certify:

That
Hahlbrock GmbH
Wunstorf, Germany

is an approved manufacturer of
Manufacture of fibre reinforced plastics

in accordance with
DNV GL rules for classification – Ships
DNV GL rules for classification – High speed and light craft
DNV GL class programme DNVGL-CP-0421 – Manufacture of fibre reinforced plastics

and the following particulars:

Range of production

- Production of components made of fibre reinforced plastics (FRP)
- Assembly of components

Production methods

- Hand Lay-up Process
- Semi-automatic manual lamination
- Vacuum-assisted resin infusion
- Glas fibre resin spraying

Maximum size of components (length x breadth x height) 12.0 m x 4.5 m x 4.0 m

Supervisory personnel

- Andreas Hahlbrock
- Stephan Müller

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 **2020-02-25**

for **DNV GL**

This Certificate is valid until **2022-04-30**.

DNV GL local station: **Magdeburg**

Approval Engineer: **Gabi Dau**

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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **263.11-006123-2**
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Particulars of the approval

Reference Documents:

- Checklist 20.96a, dated 2019-10-17
- Inspection report 20.101a, dated 2019-10-17

Approval Basis:

Workshop inspection carried out 2019-10-17

Approved production site:

Hahlbrock GmbH Faserverstärkte Kunststoffe
Wischhöfersweg 7
31515 Wunstorf
Germany

Approval conditions:

The company is obliged to manufacture components according to the Rules of DNV GL whenever the components are design approved by DNV GL. This obligation is effective without detriment, regardless of contracts closed between manufacturer and customer. If no Approval of Manufacturer (AoM) certificate is necessary for the construction of certain components being examined by DNV GL, the company is only free of the obligation if they submit notification in writing to DNV GL before construction begins.

The company shall prepare an inspection plan for each type of component before start of construction and submit it to DNV GL. The plan shall clearly indicate the duties of construction and quality control. This inspection plan has to be approved by DNV GL prior to start of production.

Alterations or modifications within the company having substantial influence upon the manufacturing quality (e.g. alterations in construction methods and/or construction facilities) and changes in the qualification of personnel are to be immediately indicated in writing to the DNV GL surveyor in charge or to DNV GL Approval Centre.

Should any check reveal any deviations from the AoM a determined period will be arranged for the elimination of these deviations and if necessary a subsequent examination will be undertaken. Should the subsequent examination establish that the deviations have not been eliminated, DNV GL is entitled to withdraw the approval.

Should DNV GL get knowledge about any damages on products the company is responsible for, DNV GL is entitled to suspend the AoM until the deficiencies are remedied or to withdraw this certificate.

END OF CERTIFICATE