

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Glass Fibre Products**

with type designation(s)

Binani Chopped Strand Mats; 180, 225, 300, 375, 450, 600 and 900 g/m² (Emulsion / Powder)

Issued to

**Goa Glass Fibre Ltd.
BARDEZ, GOA, India**

is found to comply with

DNV GL rules for classification – High speed and light craft**Det Norske Veritas' Type Approval Programme 1-501.8, 2009, Glass Fibre Reinforcements****DNV GL standard DNVGL-ST-0342 – Craft****Application :****Manufacturing of FRP laminates****For use in marine vessels in accordance with stated Rules/Standards.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2019-12-10**This Certificate is valid until **2023-12-31**.for **DNV GL**DNV GL local station: **Mumbai FiS**Approval Engineer: **Gabi Dau**

**Thorsten Lohmann
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-010968-4**
Certificate No: **TAK00001U9**

Product description

Binani Chopped Strand Mats; 180, 225, 300, 375, 450, 600 and 900 g/m² (emulsion / powder bonded).

Application/Limitation

For hand lay-up moulding with polyester, vinyl ester and epoxy resin systems.

Any significant changes in design and / or quality of the material will render the approval invalid.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**.

Marking of product

Product shall be marked with *manufacturer's name*; **Goa Glass Fibre Ltd., India** and *type designation*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Approval Certificate.

Periodical assessment

Periodical assessments for type approvals with a validity period of five years will be required after 2 years and after 3.5 years.

If an approval of manufacturer certificate which is still valid for at least one year is available, an exemption from the obligation concerning retention and renewal surveys listed in the class programme will apply.

END OF CERTIFICATE