Certificate no.:
TAK00002ED

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Glass Fibre Products

with type designation(s)
SY/ST - Triaxial Fabric (0°/±60°) & (90°/±60°)

issued to
SKAPS INDUSTRIES INDIA PVT.LTD
Mundra, Gujarat, **India**

is found to comply with
DNV class programme DNV-CP-0467 – Type approval – Uni- and multi-axial multi-ply fabrics made of glass fibres

Application:

Manufacturing of FRP laminates.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2024-09-25**
This Certificate is valid until **2029-09-24**.
DNV local unit: **India CMC MES**

for **DNV**

Approval Engineer: **Joachim Rehbein**

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.

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.

Product description
SY/ST: Non-woven triaxial fabrics (0°/±60°) & (90°/±60°).

Areal weigths:
- SY (0°/±60°): 549 g/m²
- ST (90°/±60°): 1515 g/m²

Application/Limitation
Applicable for the construction of FRP-laminates, on condition that the fabric or chopped strand mat is compatible to the resin and adhesive.

Compliance with the requirements for triaxial 0°/±45° non-woven fabric are confirmed by type approval testing.

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

Type Approval documentation

Tests carried out
Production tests: GSM, linear density, moisture content, loss of ignition

Assessed production site
SKAPS INDUSTRIES INDIA PVT. LTD. (SEZ DIV.)
Plot No. 10, Road No. 12F, Sector 12S, Mundra Integrated Textile & Apparel Park (MITAP),
Mundra SEZ, Mundra - 370 421, Gujarat, India.

Responsibility
The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Marking of product
Product shall be marked with *manufacturer's name*, *place of manufacture* 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 Type Approval Certificate.

Periodical assessment
The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

A production site with a valid Approval of Manufacturer (AoM) certificate for material in question is exempted from the obligation concerning retention and renewal assessments.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE