



Certificate no.:
TAE0000555

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Support system

with type designation(s)
Mekano EngiFibre®.

issued to
Øglænd System AS
KLEPPE, Norway

is found to comply with
IACS Rec. No. 73 (Dec 2023)
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Products approved by this certificate are accepted for installation on all vessels classed by DNV

Material **Glass fibre Reinforced Polymer**
Suitable for open deck **Yes *) See product description**

Issued at **Høvik** on **2025-11-26**

This Certificate is valid until **2030-11-25**.

for **DNV**

DNV local unit: **Stavanger**

Approval Engineer: **Ivar Bull**

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

Mekano EngiFibre® Glass Fibre Reinforced Polymer Support system for Cable ladder and Cable tray systems, manufactured in Class 1 Polyester and Polyester with anti-static properties (C1A). Complying with IACS Rec 73, DNV-CP-0593.

FRP SUPPORT CHANNELS:

Type:	FSS CH50-2-P-3000 FRP
Size:	50x50mm
Thickness:	6 mm
Support set up:	U, T, L and Cantilever support, refer to IEC 61537 Figure 47, 44, 36 and 33.

Type:	FSS CH100-3-P-3000 FRP
Size:	100 x 100mm
Thickness:	6 mm
Support set up:	U, T, L and Cantilever support, refer to IEC 61537 Figure 47, 44, 36 and 33.

Application/Limitation

Support system for polyester cable trays and ladders with UV resistance suitable for open deck.
To be installed in accordance with the manufacturer's instructions and DNV rules.

The installation is to be mechanically protected in accordance with DNV Rules and especially on weather decks in cargo hold areas and through cargo holds. Cable ladders and supports must not to be used as a walkway.

Fire resistant cables shall be installed on cable trays/ladders made of steel.

Cable tray made of EngiFibre® with anti-static properties (C1A) with surface resistance tested according to IEC 60079-0 suitable for installation in gas hazard areas.

Type Approval documentation

Tests carried out

Type tests are in accordance with IACS REC.73 (Dec 2023): Safe working load test (SWL), Impact resistance test, flame retardant test, Smoke test, Volumetric and Surface resistivity test. UV test.

Marking of product

ØS Logo & Øglænd System, Item number, Description, width & length

Manufactured by:

Oglaend Industries SDN
Shah Alam
Malaysia.

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.

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Survey to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE