Certificate No: LR23349832TA
Issue Date: 02/08/2023
Expiry Date: 11/07/2026

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Future Pipe Industries B.V.**
Address	Postbus 255, Hardenberg, 7770 AG, Netherlands
Place of Production	Future Pipe Industries B.V. Postbus 255, Hardenberg, 7770 AG, Netherlands
Place of Production	Future Pipe Industries P. O. Box 29205, Mussafah Industrial Area, Abu Dhabi, United Arab Emirates
Place of Production	Future Pipe Industries B.V. 5th Industrial Zone - Block 48, 6th of October City, Giza, 12573, Egypt
Type	Glassfibre Reinforced Epoxy (GRE) Pipe, Fittings & Piping Systems
Description	Fibermar Epoxy Pipe System in accordance with Fibermar Pipe Systems Specification.
Trade Name	Future Pipe Industries
Application	Piping systems in marine and offshore applications, in locations listed in Part 5, Chapter 12, Section 5, Table 12.5.1 of the Lloyd's Register's Rules and Regulations for the Classification of Ships, where an 'L3' or '0' is indicated.
Specified Standard	Lloyd's Register's Rules and Regulations for the Classification of Ships;

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Mohamed Mohamed Rila
Engineering Piping - Senior Specialist to
Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Lloyd's Register's Rules and Regulations for the Classification of Mobile Offshore Units.

Ratings

Maximum working pressure (bar): 10 16
Diameter (mm): 150 to 900 25 to 600
Wall thickness (mm): 3.4 to 27.2 2.6 to 18.4

Other Conditions

1. Pipes are to be selected and installed in accordance with the manufacturer's instructions and recommendations.
2. Installation, design, bonding procedures, choice of materials and adhesives are to comply with the manufacturer's instructions and recommendations.
3. For essential services, the bonding procedure is to be in accordance with the manufacturer's recommendations, and the bonders are to be approved by Lloyd's Register for each application.
4. Where plastic piping systems are required to penetrate fire rated watertight bulkheads or decks, or the watertight bulkheads in passenger ships specified in SOLAS II-1/Regulation 13.2.3, they shall pass through a suitable arrangement capable of maintaining the watertight integrity of the division after a fire event.
5. The use of non-metallic pipes may be restricted by statutory requirements of the National Authority of the country in which the ship is to be registered.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR23349832TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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