Certificate No: LR25411138TA
Issue Date: 17/12/2025
Expiry Date: 16/12/2030

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 **Luoyang Sunrui Rubber&Plastic Science and Technology Co., Ltd.**

Address No. 40, BINHE ROAD, LUOYANG NATIONAL NEW&HIGH, TECH INDUSTRY DEVELOPMENT ZONE, LUOYANG, Henan, 471003, China

Type Cargo Hold Sealing Rubber

Description Used to seal the space between the tank dome and the cargo hold deck (weather deck).

Trade Name Cargo Hold Sealing Rubber - MFXP-01

Application Marine

Specified Standard

- Lloyd's Register Rules and Regulations for Classification of ships (2025)
- ISO 34-1:2022
- ISO 815-1:2019
- ISO 868:2003
- ISO 37:2024

Ratings EPDM Rubber

- Tear Strength: 44kN/m
- Compression set at Elevated Temperature: 12%
- Shore Hardness: A/15/67

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Satya Gupta

Specialist - Ship Structure - In-Service & MEC to Lloyd's Register Marine and Offshore India LLP

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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Type Approval Certificate

- Tensile Strength: 13.5 MPa

Additional Tests

- Sealing Test
- Flexural fatigue test

Other Conditions

- The materials are to be suitable for all expected service conditions of the ship and are to be compatible with the environment onboard
- Leak test onboard is to be carried out after installation. Test pressure is to be at least the same as the maximum pressure of the hold spaces and no leakage and no deformation to be found.

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 Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document GTSO/HULL/25-029572 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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