

Safer Ropes for Mooring Operations



Serving the Marine Industry since 1936



95% of human injuries is caused during mooring operations

858 injuries and 31 fatalities
occurred during mooring operations - in the five policy years leading up to 2021

Source: P&I clubs



53% of mooring incidents is
caused by parted ropes
(snap-back effect)

Source: P&I clubs

Rope Break Test

Conventional Ropes

- ✓ Single Rope Partition
- ✓ High Snap Back effect



Reduced Snap Back

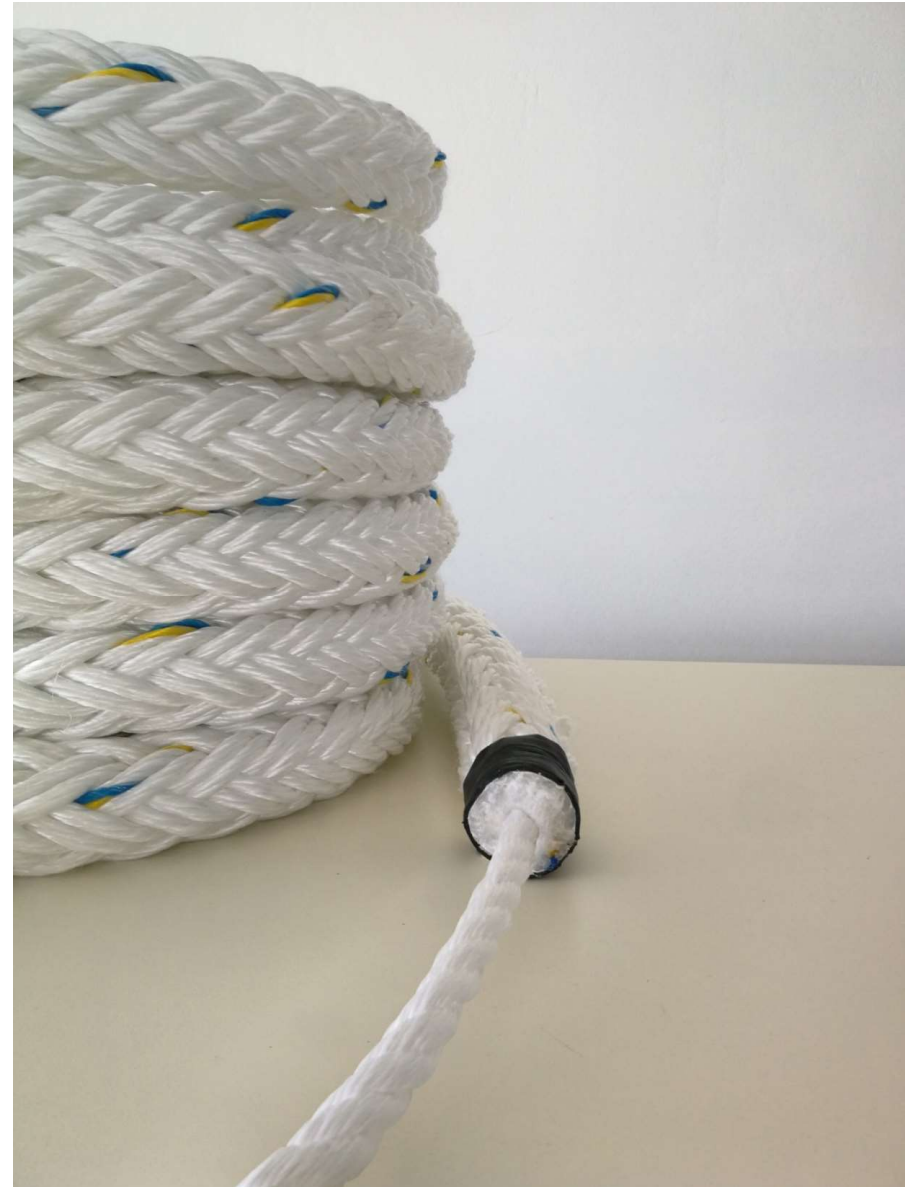
Mooring Ropes

Durable ropes for safer mooring



IMPROVED 24-12 RSB Ropes (Reduced Snap Back)

- ✓ Specific construction with extra core that holds in the enormous release of snap-back
- ✓ Rope partition takes place gradually



Rope Break Test

RSB – Reduced Snap Back Mooring ropes

- ✓ Two-step Rope Partition
- ✓ Lower Snap Back – internal core restraints the rope energy release





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Certificate No: LR23124597TA-01
Issue Date: 24/03/2023
Expiry Date: 22/03/2028

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	KATRADIS MARINE ROPES INDUSTRY S.A.
Address	11 Psaron & Anapafseos Str., Drapetsona, Piraeus, 186 48, Greece
Type	Mooring Ropes
Description	24-12 strand HT PES & PP/HDPE blend (36 – 88 mm)
Trade Name	IMPROVED 24/12 RSB (Reduced Snap Back)
Application	Mooring Ropes
Specified Standard	OCIMF (MEG4) 4th edition 2018, appendix B8 API RP 2SM: Recommended Practice for Design, Manufacture, Installation and Maintenance of Synthetic Fibre Ropes for Offshore Mooring
Ratings	Diameter: 36 to 88 mm

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 DAD23124597TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Heather Hughes

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OFFICIAL
TYPE APPROVAL
CERTIFICATE
OCIMF MEG-4

The background image shows a ship's deck with various mooring equipment, including bollards and ropes. A worker in a white hard hat and dark clothing is visible in the background, standing near the equipment. The scene is brightly lit, suggesting a sunny day.

International guidelines and regulations for safe mooring

- ✓ **MEG4** - Mooring Equipment Guidelines, Fourth Edition (OCIMF)
- ✓ **RightShip** digital maritime platform (Dry-bulk segment)
- ✓ **IMO SOLAS Circulars** 1619 & 1620 - enters into force on 1 January 2024.

Key requirements for compliance

✓ **Selection of mooring lines & tails acc. to the ship design MBL**

LDBF= 100% - 105% of the sdMBL

TDBF= 125% - 130% of the sdMBL

WLL= 55% of the of the sdMBL (wires) - 50% of the of the sdMBL (synthetics)

✓ **Implementation of the Line Management Plan**

Rope manufacturer's guidelines for maintenance, inspection and retirement

✓ **Traceability of ropes**

Manufacturer's certificates must be available on-board and correlate to a specific unique rope



Thank you



www.katradis.com

