



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, Piraeus, 186 48, Greece
Type	Mooring Ropes
Description	12/24 Strands braided HT PES & PP/HDPE (36 to 96mm)
Trade Name	NIKA-Flex 12/24 RSB (Reduced Snap Back)
Application	Mooring lines
Specified Standard	CI 1500A-15: Test methods for fibre rope physical properties CI 1500B-15: Test method for fibre rope performance properties ISO 2307:2019 - Fibre rope - Determination of certain physical and mechanical properties ISO 9554:2019 - Fibre ropes - General specifications ISO 10556:2009 - Fibre ropes of polyester-polyolefin dual fibres OCIMF Mooring Equipment Guidelines (MEG4) 4th Edition 2018, Appendix B8
Ratings	Rope diameters: 36 mm to 96 mm

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Additional Tests

Katradis RSB ropes employ a different approach to snap back reduction than that described by the CI-1502 test standard. Katradis RSB ropes do not employ a warning time, but instead at peak load there is a first break in which the load carrying elements of the rope are broken. The intact RSB member absorbs most of the released kinetic energy, thus minimizing the snap back effect. If the rope stretching continues the RSB member is broken at a later time and at a much lower load (less than 5% of LDBF) so this second break does not create a dangerous level of snap back effect. The behaviour described above was validated using a proprietary Katradis test method under the supervision of LR instead of the CI-1502 test method.

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 LR25434732TA-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.