

Type Approval Certificate


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

This certificate is issued to:

PRODUCER	Katradis Marine Ropes Industry S.A 11 Psaron and Anapafseos Str, 18648 Piraeus Greece
PLACE OF PRODUCTION	69 th KM National Road Athens Lamia Greece
DESCRIPTION	Ultra Mixed NikaSteel® ropes (Polyolefin and Polyester yarn)
TYPE	Ultra Mixed NikaSteel® 8 strand (4x2); Ultra Mixed NikaSteel® 12 strand (12x1); Ultra Mixed NikaSteel® 24 strand (12x2);
APPLICATION	Marine and offshore mooring ropes.
SPECIFIED STANDARDS	EN ISO 10572:2009 – Mixed Polyolefin fibre ropes EN IS 10566:2010 – Fibre ropes of polyester/polyolefin dual fibre ISO 9554:2010 – Fibre ropes – General EN ISO 2307:2011 – Fibre ropes –Determination of certain physical and mechanical properties

Certificate No.	14/00095
Issue Date	19 November 2014
Expiry Date	18 November 2019
Sheet	1 of 2

*Lloyd's Register EMEA
Southampton Boldrewood Innovation Campus,
Burgess Road, Southampton, SO16 7QF*



M. Jogia
Global Technology Centre
Lloyd's Register EMEA

RATINGS

	Rope diameter (mm):	Minimum Breaking Load (kN):
8 Strand ropes	24 to 96	137.3 to 1765.8
12/24 Strand ropes	24 to 96	147.2 to 1795.2

Refer to Katradis Marine Ropes Industry SA technical documentation for actual minimum breaking load for specific rope diameters and types.

OTHER CONDITIONS


1. LR Type Approval does not eliminate any requirement for a test certificate, or inspection, where required for contractual or statutory requirements;
2. Quoted breaking strengths are minimum values, therefore no tested value may be below the stated minimum.

"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. 14/00095 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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