

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	Improved Mixed Nikasteel® rope (Polyolefin and Polyester yarn)
TYPE	Mixed polyolefin/polyester ropes: 8 strand (4x2), 12 strand (12x1) and 24 strand (12x2)
APPLICATION	Marine and offshore mooring ropes.
SPECIFIED STANDARDS	DIN EN ISO 10572:2014-04: Mixed polyolefin fibre ropes ISO 9554-2005: General fibre ropes specification EN ISO 9554-2010: General fibre ropes specification EN ISO 10556:2010: Fibre ropes of polyester/polyolefin dual fibre EN ISO 2307:2011: Fibre ropes – Determination of certain physical and mechanical properties

Certificate No.	15/00081
Issue Date	5 August 2015
Expiry Date	4 August 2020
Sheet	1 of 2



M. Jogia
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

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RATINGS

	Rope diameter (mm):	Minimum Breaking Load (kN):
8 Strand ropes	24 to 96	123 to 1579
12/24 Strand ropes (buoyant in sea water)	24 to 96	127.5 to 1658

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."

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