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## 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:

<b>PRODUCER</b>	Katradis Marine Ropes Industry SA 11 Psaron and Anapafseos Str, 18648 Piraeus Greece
<b>PLACE OF PRODUCTION</b>	69 <sup>th</sup> KM National Road Athens Lamia Greece
<b>DESCRIPTION</b>	Sirius 8 & 12 Strand HMPE braided ropes & covered ropes (Ultra High Molecular Weight Polyethylene yarn)
<b>TYPE</b>	Sirius 12 strand braided ropes (12x1) Sirius 8 strand braided ropes (4x2)
<b>APPLICATION</b>	Marine and offshore mooring ropes.
<b>SPECIFIED STANDARDS</b>	ISO 10325:2010 – High modulus polyethylene-8-strand braided ropes, 12 strand braided ropes and covered ropes EN ISO 2307:2011 – Fibre ropes – Determination of certain physical and mechanical properties
<b>Certificate No.</b>	14/ 00094
<b>Issue Date</b>	19 November 2014
<b>Expiry Date</b>	18 November 2019
<b>Sheet</b>	1 of 2

Lloyd's Register EMEA  
Southampton Boldrewood Innovation Campus,  
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M. Jogia  
Global Technology Centre  
Lloyd's Register EMEA

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## RATINGS

	Rope diameter (mm):	Minimum Breaking Load (kN):
<b>8 &amp; 12 Strand ropes</b>	8 to 52	65.5 to 1996.3

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/ 00094 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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