DNV·GL

Certificate No:
TAK00001KG
File No:
338.20
Job Id:
262.1-018874-3

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Synthetic Fibre Ropes

with type designation(s)
3-, 8- and 12-strand Polyamide Ropes

Issued to
Juli Sling Co., Ltd.
Baoding City, Hebei, China

is found to comply with
DNV GL class programme DNVGL-CP-0100 – Type approval – Synthetic fibre ropes for towing, mooring and anchoring
ISO 1140:2012 "Fibre ropes – Polyamide – 3-, 4-, 8- and 12-strand ropes"

Application :

Mooring and Towing of Ships and HSLCs and Anchoring of HSLCs.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2024-04-03**.

Issued at **Hamburg** on **2019-04-04**
DNV GL local station: **Tianjin** for **DNV GL**

Approval Engineer: **Joachim Rehbein**

Thorsten Lohmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Polyamide Ropes; 3-, 8- and 12-strand hawser-laid and braided synthetic fibre rope.

Specific gravity: 1,14 (sinks in seawater).

ROPE CHARACTERISTICS 3-strand hawser-laid rope		
Diameter, mm	**Nominal linear mass, kg/m**	**Minimum Breaking Load (MBL), kN**
6	0,0222	7,93
8	0,0395	13,8
9	0,0500	17,4
10	0,0617	21,2
12	0,0888	30,1
14	0,121	40,0
16	0,158	51,9
18	0,200	64,3
20	0,247	79,2
22	0,299	94,0

ROPE CHARACTERISTICS 8- and 12-strand braided ropes		
Diameter, mm	**Nominal linear mass, kg/m**	**Minimum Breaking Load (MBL), kN**
20	0,247	79,2
24	0,355	112
28	0,484	149
30	0,556	170
32	0,632	192
36	0,800	240
40	0,987	294
44	1,190	351
48	1,420	412
52	1,670	479
56	1,930	550
60	2,220	627
64	2,530	709
72	3,200	887
80	3,950	1 080
88	4,780	1 300
96	5,690	1 530
104	6,670	1 780
112	7,740	2 050
120	8,880	2 340

Fibre ropes are to be delivered with a linear mass within ± 5 % of the nominal linear mass given in the table.

Application/Limitation

The Type Approval covers ropes with diameter from 6 mm to and including 120 mm.

Scope of assessment is limited to evaluation of net mass per metre, type of lay and static strength.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, and according to:

- ISO 2307:2010

Initial setting/cycling of ropes has not been carried out prior to break testing.

The fibre rope is manufactured in accordance with ISO 1140:2012 "Fibre ropes – Polyamide – 3-, 4-, 8- and 12-strand ropes".

Marking of product

Product shall be marked with *manufacturer's name*; **Juli Sling Co., Ltd. Baoding, Hebei, China**, *production plant* and *type designation* and *diameter*.

Additionally, the rope shall be marked using one green yarn along in one of the visible strands.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV GL Type Approval Certificate.

Periodical assessment

A condition for retention of the TA certificate in its validity period is that periodical assessments are successfully carried out.
The objective of the periodical assessment is to verify that the conditions for the TA have not been altered.
The main scope of the periodical assessment will normally include:

- verification of the TA applicant's production and quality system with relation to ensuring continued consistent production of the type approved products at the TA applicant's own premises and at other companies that are given the responsibility for manufacturing of the products
- review of the TA documentation and that this is still used as basis for the production
- review of possible changes to the design, the material and the performance of the product
- verification of the product marking.

Periodical assessments will be required after two years and after 3.5 years (retention survey) and for renewal after 5 years (renewal survey).

END OF CERTIFICATE