Certificate no.:
TAK00002JV

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Synthetic Fibre Ropes

with type designation(s)
PLATEENA NEO 12 SBA Mooring Lines

issued to
Garware Technical Fibres Limited
Pune, Maharashtra, **India**

is found to comply with
DNV class programme DNV-CP-0100 – Type approval – Synthetic fibre ropes for towing, mooring and anchoring
OCIMF Mooring Equipment Guidelines (MEG4), Fourth Edition 2018 [test requirements]

Application:

Mooring and Towing of Ships and HSLCs.

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

Issued at **Hamburg** on **2025-08-22**
This Certificate is valid until **2030-08-21**.
DNV local unit: **India CMC MES**

for **DNV**

Approval Engineer: **Gisle Hersvik**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

PLATEENA NEO 12 SBA: 12-strand plaited synthetic fibre rope

- Fibre material: HMPE (rope) / Nylon (SBA)
- Specific gravity: 0.99 (floats in seawater)

Compliance with OCIMF Mooring Equipment Guidelines (MEG4)

Mooring Line Base Design Certificate – For PLATEENA NEO 12 SBA 20 mm and 60 mm
Ref No.: GTF/MLBDC/ PLTN12SBA /H1 **Issue date**: 2025-08-19
Mooring Line Certificate will be issued with reference to Mooring Line Base Design Certificate.

Garware Technical Fibres Limited has performed the full test scenario as per OCIMF MEG4.

Rope Characteristics

The Rope characteristics are tabulated on the next page observing the following:

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

All MBL (Minimum Break Load) values are given for the un-spliced ropes.
All LDBF (Line Design Break Force) values are given for the spliced ropes.

PLATEENA NEO 12 SBA: 12-strand plaited synthetic fibre ropes

Diameter [mm]	SBA rope diameter [mm]	Line Linear Density (LLD) with SBA [kg/m]	Line Linear Density (LLD) without SBA [kg/m]	Line Tenacity (LT) [kg/m]	LDBF (Spliced) [ton]	MBL (Unspliced) [ton]
20	6	0,256	0,233	136,27	34,9	38,76
21	6	0,283	0,259	135,89	38,5	42,73
22	6	0,303	0,280	136,15	41,3	45,90
23	6	0,332	0,308	135,98	45,1	50,16
24	6	0,354	0,331	134,69	47,7	53,04
25	6	0,385	0,361	134,53	51,8	57,55
26	6	0,409	0,386	134,54	55,1	61,20
27	6	0,442	0,418	134,37	59,4	65,99
28	6	0,468	0,444	134,48	62,9	69,87
29	6	0,500	0,476	137,93	68,9	76,57
30	6	0,531	0,507	134,08	71,1	79,05
31	6	0,567	0,543	133,97	76,0	84,40
32	6	0,598	0,575	132,79	79,4	88,23
33	6	0,627	0,604	134,68	84,4	93,83
34	6	0,669	0,646	132,42	88,6	98,43
35	6	0,709	0,686	132,40	93,9	104,30
36	6	0,745	0,721	131,91	98,2	109,14
37	6	0,787	0,764	131,84	103,8	115,29
38	8	0,843	0,801	127,95	107,9	119,85
39	8	0,888	0,846	127,96	113,6	126,25
40	8	0,926	0,884	127,45	118,0	131,08
41	8	0,972	0,931	127,51	123,9	137,71
42	8	1,017	0,975	127,48	129,6	144,00
43	8	1,060	1,018	127,48	135,1	150,14
44	8	1,104	1,062	126,85	140,0	155,55
45	8	1,154	1,113	126,89	146,4	162,70
46	8	1,202	1,160	125,83	151,2	168,00
47	8	1,254	1,213	125,88	157,9	175,39
48	8	1,297	1,255	125,67	162,9	181,05
49	8	1,351	1,310	125,69	169,8	188,67
50	8	1,404	1,362	125,68	176,4	196,00
51	9	1,460	1,408	125,70	183,5	203,92
52	9	1,517	1,464	123,78	187,7	208,60
53	9	1,576	1,523	123,75	195,0	216,70
54	9	1,633	1,580	124,03	202,5	225,00
55	9	1,694	1,641	124,01	210,1	233,41
56	9	1,741	1,688	122,88	213,9	237,66
57	9	1,803	1,751	122,91	221,6	246,22
58	9	1,873	1,820	122,07	228,6	254,00
59	9	1,938	1,885	122,06	236,5	262,83
60	9	1,981	1,928	122,13	241,9	268,77

The data in the table is provided by Garware Technical Fibres Limited.

Application/Limitation

The approval range covers ropes with diameter from 20 mm to and including 60 mm.

The OCIMF MEG4 approval range covers ropes with diameter from 20 mm to and including 60 mm.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, and according to:
- OCIMF's Mooring Equipment Guidelines (MEG4) [requirements to testing].
- DNV-CP-0100.

The fibre ropes are manufactured in accordance with:
- Product Specification (PLATEENA NEO 12 SBA), QAD/D/111 of 2025-07-02.

Marking of product

Product shall be marked with *manufacturer's name*: **Garware Technical Fibres Limited, India**, *type designation* and *diameter*.

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 Type Approval Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE