Certificate No:
TAS000033T

TYPE APPROVAL CERTIFICATE

This is to certify:

That the High Holding Power Anchor

with type designation(s)
SEC HHP N-Type Fully Balanced

Issued to
SEC Ship's Equipment Centre Bremen GmbH & Co. KG
Bremen, **Germany**

is found to comply with
DNV GL rules for classification – Ships

Application :

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

Issued at **Hamburg** on **2021-07-06**
This Certificate is valid until **2026-07-05**.
DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Ansgar Gorissen**

for **DNV**

Andree Orth
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.

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 300,000 USD.

Product description

SEC HHP N-Type Fully Balanced, high holding power anchor, 40kg – 32000kg

Application/Limitation

1. The manufacturer is required to have a DNV-Surveyor witness all important production including welding, NDT, etc. and tests as required.
2. All welding is to be carried out by qualified welders and according to approved welding procedures.
3. Surveyor is to issue DNV Product Certificate and each anchor is to be tested prior to issuance of this. Proof load applied is to correspond to the weight of a normal stockless anchor, which is 4/3 of the HHP. anchor weight. Relevant NDT shall be performed after proof load testing according to Pt.3 Ch.11 Sec.1 [4.5]
4. Each anchor is to be delivered with required material certificates in accordance with Pt.3 Ch.11 Sec.1 [4.2].

Type Approval documentation

Test Reports tests caried out 2021-05-26 and 2021-05-27
Dimension table SEC HHP N-Type Anchor
Production drawings

Tests carried out

2021-05-26 and 2021-05-27 Germany, Weser and Wesermündung

Marking of product

Each anchor shall be stamped according to Rules Pt.3 Ch.11 Sec.1 [4.7]

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.