



Certificate no.:
TAS00004VU

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Lifting Frame

with type designation(s)
BA-350S(20-50), BA-350S(40-50)

issued to
TEC CONTAINER, S.A.
Mejorada Del Campo, Madrid, Spain

is found to comply with
DNV standard DNV-ST-0377 – Standard for shipboard lifting appliances

Application:

Issued at **Hamburg** on **2025-09-01**
This Certificate is valid until **2030-08-31**.
DNV local unit: **Area NB/CMC Iberia**

for **DNV**

Approval Engineer: **Stefan Heuer**

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

20ft and 40ft Semi-automatic Container Spreader

Application/Limitation

1. Working conditions:

- Design temperature: -20°C
- SWL: max. 50t
- Hoist load coefficient (psi): max. 1,2
- Load cycles: max. 20000

2. Material and workmanship

- All materials are to be delivered with 3.1 certificates acc. to EN 10204 (or ISO 10474), documenting mechanical properties and chemical composition in compliance with DNVGL-ST-0377, Section 3.
- Welds and NDT are to be carried out by certified personnel and shall comply with the requirements stated in the DNV-ST-0377, Section 11.

3. Product certification:

This Type Approval covers design(s) only. i.e. the Type Approval is not valid for the final product but may be used as basis for obtaining a product certificate.

To obtain DNV Product Certificates, each spreader shall be load- and function tested (DNV-ST-0377, Table 7-1) with Lpstat: (1.04 x SWL) + 9.6t

The following functions of the spreader shall be demonstrated to our surveyor:

- a) the reliable operation of locking and unlocking of the twist locks
- b) indicators showing in a suitable manner whether the twist locks are locked or unlocked

4. Lifting slings:

The lifting slings (ropes, shackles, links) are not part of this type approval and DNV certification.

The lifting slings shall be manufactured and tested according to a recognized international or national standard and in compliance with ILO Code of Practice, Para. 4.4.3 and Appendix E. Certification shall be conducted on ILO Form 3 by an accredited Competent Person at the manufacturer.

Type Approval documentation

Tests carried out

Prototype tests witnessed by DNV dated 2025-07-23

Marking of product

Each spreader shall be marked by the manufacturer with at least (DNV-ST-0377, 7.4):

- Manufacturer's name or trademark
- Type of loose gear
- Serial number
- Year of construction
- Nominal load(s) "SWL" in t or kg
- Dead load "WT" in t or kg

Periodical assessment

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