DNV·GL

Certificate No:
TAS00000FK

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Offshore Tank Container

with type designation(s)
4000 L horizontal helifuel tank - ST-3210/A
4000 L bolted horizontal helifuel tank - ST-3210/E
4000 L - horizontal helifuel tank - ST-7280

Issued to
Suretank Limited
Drogheda Co. Louth, Ireland

is found to comply with
DNV 2.7-1 Offshore Containers (2013)
EN 12079 Offshore containers-Design, construction, testing, inspection and marking
IMO/MSC Circular 860
International Maritime Dangerous Goods Code (IMDG)
European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)
Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)

Application :

UN Portable Offshore Tank, Tank Instruction T4

Type	Max. gross mass (kg)	Max. payload (kg)	Tank cap. (L)	MAWP/ test pr. (bar)	Eq. shell thk (mm)
4000 L horizontal helifuel tank – ST-3210/A	**6500**	**4400**	**4000**	**1.77/2.65**	**5.0**
4000 L bolted horizontal helifuel tank - ST-3210/E	**6500**	**4400**	**4000**	**1.77/2.65**	**5.0**
4000 L - horizontal helifuel tank - ST-7280	**6500**	**4400**	**4000**	**1.77/2.65**	**5.0**

This Certificate is valid until **2019-12-31**.

Issued at **Høvik** on **2016-05-20**
DNV GL local station: **Manchester** for **DNV GL**

Approval Engineer: **Igor Antonijevic**

Inger-Helene Hals
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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Job Id:
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Manufactured by

DNV GL id number 1214516

DNV GL id number 10019533 [1)]

[1)] the type approval will become valid for this manufacturer after they have built and tested a prototype and the test report sent to us for review.

Suretank Limited takes responsibility that both design and production are in compliance with the Rules, Standards and/or Regulations listed on page 1 of this Type Approval Certificate.

Product description

This Type Approval Certificate replaces S-6910.
Design approved according to IMDG Code, Edition 2014 Amdt. 37-14.

Type	Max.external dimensions (LxWxH)	Tare mass	Pressure vessel code, tank	Tank diameter (internal)	Tank material
ST-3210	2200 x 2000 x 2506 mm	2100 kg	ASME VIII Div.1	1775 mm	A240 316/316L
ST-3210/E	2200 x 2000 x 2506 mm	2100 kg	ASME VIII Div.1	1775 mm	A240 316/316L
ST-7280	2200 x 2000 x 2506 mm	2100 kg	ASME VIII Div.1	1775 mm	EN 10028-7 1.4401/1.4404 (316/316L); SANS 50028-7 1.4002

Application/Limitation

IMDG/ADR/RID design approval number[2)]: N-NV/480/01/12
IRL-NV/480/01/12
GB-DNV/480/01/12

Type	Metallurgical design temperature for tank	Design temperature for framework	Min. shackle bolt diameter	Lifting slings Max angle of legs from vertical	Enhancement factor	Setting of relief valve
ST-3210	-20 °C to +65 °C	-20 °C	24.9 mm	45°	1.733	2.2 bar
ST-3210/E	-20 °C to +65 °C	-20 °C	24.9 mm	45°	1.733	2.2 bar
ST-7280	-20 °C to +65 °C	-20 °C	24.9 mm	45°	1.733	2.2 bar

[2)] only one of these numbers shall be used. Suretank Limited is responsible for proper using of numbers.

Products accepted for carriage:
- Liquids with the following Tank Instructions in the IMDG code: T1, T2, T3 and T4.

The goods accepted for carriage should have no adverse effect on any part of the tank and meet applicable tank special provision.
DNV GL surveyor has to witness important production and test events and issue Form no. 49.07a " Certificate for Offshore Container" and Form no. 49.04x/a "Certificate for Tank Container or Portable Tank" for each container.
For tank containers with GB design approval number, certificate MDG10 also has to be issued.
Production strength tests (All point lifting) to be carried out according to DNV 2.7-1 and after agreement with the DNV GL surveyor.
The certificates are only valid when the containers are fitted with a lifting set certified according to DNV 2.7-1.
Each tank should be subjected to a hydraulic pressure test to the specified test pressure.

Type Approval documentation

Tests carried out

Prototypes ST152, ST-2422 and ST-9868 tested according to Rules.

Marking of product

Each container to be marked with:

- Data plates for UN tanks according to IMDG Code Ch. 6.7.2.20. Design approval number according to Application/Limitation above
- Data plates according to DNV / EN requirements
- External marking according to IMDG / DNV / EN requirements
- DNV GL decal for offshore containers
- NV mark to be hard stamped on frame
- Manufacturer's Serial Number to be welded on frame

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment every 2nd year and before the expiry date of this certificate to verify that the type approval is complied with.

END OF CERTIFICATE