

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Launching Structures for Lifesaving

with type designation(s)
Davit BD-SA23 & Winch BW-SC21B

Issued to

**Boatbuilding Yard, Qingdao Beihai Shipbuilding Heavy
Industry Co., Ltd.
Qingdao Shandong, China**

is found to comply with
IMO SOLAS 1974 as amended and the LSA Code

Application :

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

Issued at **Høvik** on **2016-08-08**

This Certificate is valid until **2020-08-07**.

for **DNV GL**

DNV GL local station: **Qingdao**

Approval Engineer: **Mats Asvald Innstø**

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Aldo Matteucci
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 Examination Certificate and not to the approval of equipment/systems installed.

Product description

Single arm liferaft & rescue boat davit with

- Maximum Working Load, MWL = 23 kN
- Winch with maximum working load, SWL = 23 kN (3 layers)
- Wire rope diameter: 16mm

Application/Limitation

- Grades of materials as stated on drawings are to be delivered with makers product certificates (3.1).
- The various components transferring the load like wires, shackles, hooks, etc. are to comply with international standards or codes and are to be delivered with manufacturer's certificate, confirming a safety factor minimum 6 compared to the sustained load.
- Falls to be used with the launching appliance shall be of rotation-resistant and corrosion-resistant steel wire rope.
- Installation, onboard testing (MSC.81(70) part.2), support to the deck structure, and connection to power supply are not included in this examination and shall be accepted by attending surveyor in each case.

Type Examination documentation

Tests carried out

Prototype test according to IMO Resolution MSC 81(70) carried out 2012-03-08 and witnessed by DNV Qingdao.

Marking of product

Marking shall be implemented in accordance with the LSA Code, item 1.2.2.9:

- Type designation, manufacturer name and serial number
- Maximum Working Load, MWL/SWL

Certificate Retention Survey

For retention of the Type Examination, DNV GL surveyor shall perform a survey every second year and before expiry date of this certificate in order to verify that the conditions of the type examination are complied with.

END OF CERTIFICATE