

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Launching appliances for free-fall lifeboats

with type designation(s)
BD-FF67

Issued to

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

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397**,
item No. MED/1.23. SOLAS 74 as amended, Regulation III/4, III/16, III/23, III/33, III/34 & X/3, LSA Code and 2000 HSC Code 8

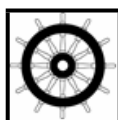
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-01-13**.

Issued at **Høvik** on **2020-01-14**

DNV GL local station:
Qingdao CMC

Approval Engineer:
Mats Asvald Innstø



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

Free-fall lifeboats Davit with;

- Maximum Working Load, MWL = 65 kN
- Secondary Means of Launching:
 - Maximum Hoisting Load, MHL = 48 kN
 - Minimum Breaking Load of Wire Rope, MBL = 219 kN
 - Wire Rope Diameter 20 mm

Application/Limitation

- Grades of materials as stated on drawings are to be delivered with maker's product certificates (3.1).
- The various components transferring the load like wires, shackles, hooks, etc. are to comply with international standard or code 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, on-board 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

06-BD-FF67	A0	BD-FF67
07-FF67-01	A0	Ramp
08-FF67-01-1		
09-FF67-01-2	A0	Slide way
10-FF67-01-3	A0	Cylinder lower seat
11-FF67-01-4	A0	Mid. traverse beam
12-FF67-01-6	A0	Aft. traverse beam
13-FF67-01-7	A0	Skidway slide block
14-FF67-01-8	A0	Fore support leg
15-FF67-02	A0	Pivot
16-FF67-02-1	A0	Shaft
18-FF67-03-2	A0	Cylinder pin
18-FF67-03-2	A0	Pin
19-FF67-04	A0	Wire rope system
20-FF67-05	A0	Arm
21-FF67-05-1	A0	Cylinder upper seat
22-FF67-05-2	A0	Wire rope seat
23-FF67-05-3	A0	Limit unit seat
24-FF67-05-4	A0	Tackle II seat
25-FF67-05-5	A0	Winch seat
26-FF67-05.1	A0	Tackle I
27-FF67-05.1-1	A0	Sheave seat

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Certificate No: **MEDB00006C4**

28-FF67-05.1-2	A0	Sheave shaft
29-PV125-02-3	A0	Sheave
30-FF67-05.2	A0	Limit unit
31-FF67-05.3	A0	Tackle II
32-FF67-05.3-1	A0	Sheave seat II
33-FF67-06	A0	Floating Block
34-FF67-06-1	A0	Traverse
35-FF67-06-2	A0	Sheave
36-FF67-06-5	A0	Sheave shaft
37-FF67-06-6	A0	Pin
38-FF67-08	A0	Hydraulic system
39-FF67-08-3	A0	Layout of hydraulic winch
40-FF67-08-4	A0	Hidraulic Cylinder
41-FF67-09	A0	Lashing Unit
42-FF67-09-1	A0	Chain
43-FF67-09-2	A0	Seat
44-FF67-09-4	A0	Shaft
45-FF67-10	A0	Aux. lashing unit
46-FF67-10-1	A0	Pipe pole
47-FF67-11	A0	Fastening unit
48-FF67-EE-01	A0	Electric diagram
49-FF67-EE-02	A0	Control system

Tests carried out

Prototype tested in accordance with IMO Resolution MSC.81(70) Part 1.

<u>Description</u>	<u>Report</u>	<u>Date(s)</u>	<u>Witnessed by</u>
Prototype test	MSC/Circ.980/Add.2	2015-06-15	DNV GL Qingdao, China

Marking of product

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

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

END OF CERTIFICATE