DNV·GL

Certificate No:
MEDB00000SA

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (MED) as amended by directive (EU) 2015/559. This Certificate is issued by DNV GL SE based on the notification of the German Federal Ministry of Transport, Building and Urban Development.

This is to certify:

That the Liferaft launching appliances

with type designation(s)
Rescue Boat/ Liferaft Crane type BD-SA21

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:
Annex A.1, item No. A.1/1.24 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation III/4, III/12, III/16, 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 **2021-07-17**.

Issued at **Hamburg** on **2016-07-18**

for **DNV GL SE**

DNV GL local station:
Qingdao

Approval Engineer:
Stefan Heuer

Notified Body
No.: **0098**

Sven Dudszus
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 Council Directive 96/98/EC, as amended.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment.
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.

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Product description

Rescue Boat/ Liferaft Crane type BD-SA21

Application/Limitation

GA 2.3t, GE 1.7t at 5,5m

GA = launching weight
GE = recovery weight

Type Examination documentation

is based on the following drawings, verified with Ref. no.: 12-037353/BHEN

Drawing No./Rev. No.	*Drawing Title*
1. BD-SA21-TM	Drawings list
2. BD-SA21-GG	Technical specification
3. BD-SA21-AZ	Installation manual
4. BD-SA21-SM	Instruction manual
5. BD-SA21-JS	Calculations for strength check
6. BD-SA21-1SY	Prototype test
7. NXQ-JS	Calculation of NXQ hydraulic accumulator
8. SA21-00	Davit GA drawing
9. SA21-01	Base
10. SA21-02	Slewing tray
11. SA21-03	Hydraulic system
12. SA21-05	Jib
13. SA21-06	Remote control unit
14. SA21-07	Limit unit
15. SA21-08	Leading block
16. SA21-10	Head block
17. SA21-EE-01	Circuit and connection diagram
18. SA21-EE-02	Starter box/remote push button
19. NX349AB	Hydraulic accumulator
20. NX349AB-12	Tank vessel
21. -	Material list

Tests carried out

according IMO-Resolution MSC.81(70), amended up to MSC.321(89) and MSC.323(89), Part 1, Regulation 8.1

Type Test Report No.: BD-SA21-1SY dated 2012-07-27