

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)
FD5900

Issued to

Oriental Precision Machinery Co., Ltd.
Busan, Republic of Korea

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

Regulation **(EU) 2018/773**,

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

item No. MED/1.41b. SOLAS 74 as amended, Regulation III/4, III/16, III/17, III/23, III/24, III/34, X/3, LSA Code and 2000 HSC Code

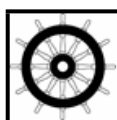
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-09-04**.

Issued at **Høvik** on **2019-09-05**

DNV GL local station:
Gimhae Station

Approval Engineer:
Paulo Correia



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Launching appliances for free-fall lifeboats with;

- Maximum Working Load, MWL = 73,6 kN
- Maximum Hoisting Load, MHL = 47,7 kN (3 layers on winch drum)
- Minimum Breaking Load of Wire Rope, MBL = 240 kN
- Wire Rope Diameter = 18 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

Tests carried out

Prototype testing according to IMO Resolution MSC 81(70) carried out 2014-04-10 and witnessed by DNV Busan.

Marking of product

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

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

END OF CERTIFICATE