

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Winches for survival craft and rescue boats: rescue boats

with type designation(s)
Winch HMW50-007

Issued to

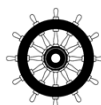
MacGregor Norway AS
Kristiansand S, Norway

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

Annex A.1, item No. A.1/1.41d and Annex B, Module B in the Directive. 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.

Høvik, 2016-01-13
for **DNV GL AS**



This Certificate is valid until
2021-01-12

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Kristiansand S

Xiao Long Eric Song
Surveyor

Product description

Lifeboat/Rescue boat Winch with;

- Maximum Working Load, MWL = 50 kN (3 layers)
- Maximum Hoisting Load, MHL = 50 kN
- Wire Rope Diameter = 19 mm

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 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, 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 2011-02-23 and witnessed by DNV.

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

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE