

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 the Kingdom of Norway.

This is to certify:

That the Fast rescue boats: rigid

with type designation(s)
Weedo 600 FRB

Issued to

Maritime Partner AS
ÅLESUND, Norway

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

Regulation **(EU) 2017/306,**
item No. MED/1.20b. SOLAS 74 as amended, Regulation III/4, III/26, III/34, LSA Code and
IMO MSC/Circ.1006, 1016 & 1094

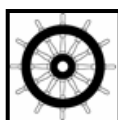
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-06-25**.

Issued at **Høvik** on **2017-06-26**

DNV GL local station:
Ålesund

Approval Engineer:
Helge Bjørnarå



Notified Body
No.: **0575**

for **DNV GL AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-000467-48**
Certificate No: **MEDB00002XG**

Product description

Weedo 600 FRB, rigid fast rescue boat with single point lifting hook.

Length:	6.75 m
Breadth:	2.51 m
Depth:	0.44 m
Weight of boat, fully equipped with engine:	1995 kg
Max weight of boat, fully manned (82.5 kg/person):	3232 kg

Hook manufacturer and type:	HMK 3.5, offload
Hook SWL:	3500 kg
Hull material:	GRP

Propulsion system:	Inboard engine w/ waterjet
Engine manufacturer and type:	Yanmar 4LHA-STP Yanmar 4JH3-DTE Volvo Penta D3-220
Waterjet types:	Vosper PP90
Bollard pull (measured for 163 kW engine):	4.9 kN
Bollard pull (measured for 89 kW engines):	5.4 kN
Bollard pull (measured for 169 kW engines):	5.9 kN

Application/Limitation

Approved engine power:	163 kW for Yanmar 4LHA-STP 89 kW for Yanmar 4JH3-DTE 169 kW for Volvo Penta D3-220
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Number of persons, max:	15
Maximum load of persons (82.5 kg/person):	1237 kg

- Fast rescue boat equipment and marking/instructions to be inspected after installation onboard the ship. Equipment shall comply with LSA Code and IMO Res. MSC.81(70).
- The fast rescue boat is fitted with a release hook without on-load release capabilities, in accordance with LSA Code 4.4.7.6.9. Hence, if it is to be combined with launching appliances with permanent high speed tensioning device (LSA Code 6.1.7.3), compatibility must be assured.
- The normal equipment of the fast rescue boat to include a hands-free and watertight VHF radio communication set, in addition to the ones required on the bridge.
- The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.207(81), IMO Res. MSC.218(82), IMO Res. MSC.272(85) and IMO Res. MSC.320(89).
- Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2 as amended.

Type Examination documentation

Basis for approval:

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| - Maritime Partner technical file "EC MED Type approval Weedo 600 FRB", document no. A01-033 | |
| - Drawings as specified in DNV approval letter | 2006-12-15 |
| - Prototype tests reports witnessed by DNV | 2006-04-24 |
| - Material strength test report 5550/03034 by Møreforsking | 2003-12-18~22 |
| - Material fire-test report 102010.80/04.021 by SINTEF | 2004-02-18 |

Updated seating arrangement:

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|------------------------------------|------------|
| - Updated seating arrangement plan | 2010-07-09 |
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Additional engine alternative (4JH3-DTE):	
- Prototype tests reports witnessed by DNV	2013-08-21
Additional documentation for new lifting frame:	
- Doc. No. MP-2013-02, Rev.0, Strength analysis of lifting frame	2013-09-25
- Doc. No. MP-2013-04, Rev.0, Strength analysis of offshore lifting of FRB hull and attachment	2013-10-14
- Dwg. No. E01-080, Rev.A, Lifting Frame NORSOK 5T MP Boats	2013-09-11
- Dwg. No. E01-081, Rev.A, Lifting Plate Weedo 600/700	2013-09-11
- Dwg. No. E01-040-01, Rev.06, Weedo 600 FRB Construction Hull	2013-02-06
- Load test IMO Res. MSC.81(70), Part 2, 5.3.4 (YN 1962)	2014-11-05
Additional engine alternative (Volvo Penta D3-220):	
- Prototype tests reports witnessed by DNV	2015-01-09

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.226(82), IMO Res. MSC.274(85), IMO Res. MSC.321(89) and IMO Res. MSC.323(89) and IMO MSC/Circ.1006.

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, dimensions and date of manufacture, according to LSA code item 4.4.1.2 and the MED mark of conformity (see page 1).

List of fast rescue boat equipment to be posted in the boat.