

CERTIFICATE OF CONFORMITY - EC (MODULE G)

Certificate No:
MEDG0000196

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 AS under the authority of the Government of Norway.

This is to certify:

That the Rigid rescue boats

with type designation and serial number
Polarcirkel 580 Rescue - 439

Issued to

Helgeland Plast AS
MO I RANA, Norway

is, by design assessment and product verification, found to comply with

Regulation (EU) 2022/1157,

item No. MED/1.18. SOLAS 1974 as amended, Reg. III/4, III/21, III/31, III/34 & X/3, LSA Code, 2000 HSC Code 8 and IMO MSC/Circ.1006

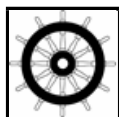
USCG Approval No: **N/A**

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

Issued at **Høvik** on **2023-06-21**

DNV local unit:
East & South Norway CMC

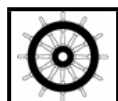
Approval Engineer:
Helge Bjørnara



for **DNV AS**

Notified Body
No.: **0575**

Sverre Olav Bergli
Head of Notified Body



0575/yyyy

0575: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed



The product liability tests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate remains valid unless suspended, withdrawn, recalled or cancelled, provided this equipment is not modified without the acceptance of the notified body named herein.

This certificate authorises the manufacturer to affix the "Mark of Conformity" (wheelmark) to the product described herein.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Polarcirkel 580 Rescue, rigid rescue boat with lifting slings and inflatable bag for re-righting after capsizing.

Length: 5.80 m
Breadth: 2.05 m
Depth: 0.40 m
Weight of boat, fully equipped: 1245 kg
Weight of boat, fully manned (82.5 kg/person): 1905 kg

Hook SWL: min. 1905 kg
Hull material: PEHD

Propulsion system: Outboard engine
Engine manufacturer and type: Yamaha F100 XB
Bollard pull: 4.0 kN

Application/Limitation

Approved engine power: 74.6 kW

Number of persons, max: 8
Maximum load of persons (82.5 kg/person): 660 kg

Approved colour: Red/Black

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 various components transferring the load like wires, shackles, hooks etc. shall comply with international standard or code and shall be delivered with manufacturer's certificates confirming a safety factor of minimum 6 compared to the sustained load.

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, item 5.4.

Technical Documentation

Basis for approval:

- Dwg. No. 560-010-000, Rev.C, Standard basis-skrog - Dwg. No. 560-005-000, Rev.A, General Arrangement - Dwg. No. 560-005-001, Løftearrangement - Dwg. No. 560-005-005, Oppdrift potonger - Dwg. No. 560-005-011, Sittebenk med gripetau - Dwg. No. -, Wiring Diagram - Rescue Boats - Prototype test report - Surveyor's checklist - Test report No. 102010.80/08.069 from SINTEF (IMO MSC/Circ.1006) - Stability report - Test report No. MP 1-94 from SINTEF (Materialprøving)	2006-03-10 2008-03-11 2008-02-01 2009-04-24 2006-06-22 2008-06-24 2010-03-12 2010-09-14 2008-07-03 2009-04-20 1994-04-27
Modification to bow/lengthening: - Dwg. No. 15006-580-000-000, Rev.B, 580 Rescue - Dwg. No. 14001-010-001-000, Rev.A, Skrog 580	2015-05-06 2014-10-13
Additional engine alternatives: - Dwg. No. 200-10-580-100-Rescue, 580 work rescue - Dwg. No. 200-04-580-100-R, Rev.A, 580 ob til dørk - Dwg. No. 200-04-580-100-3, Rev.A, Flyte-elementer rescue - Dwg. No. 19231-RX-04, Rev.A, Stability Booklet 580 Sport - Doc. No. TR-31140-6321-1 Rev.1, Local analysis of the transom of Polarcirkel Workboat 860 Outboard - Prototype test report (Yamaha F60/F100/F115)	2019-05-13 2018-10-23 2020-06-02 2020-02-17 2020-05-06 2020-11-12
Dwg. No. -, Wiring Diagram – 580 Rescue Brukermanual - Polarcirkel 580 RESCUE Fabrication Checklist and Report – Module F & G	2022-04-04 2022-03-30 2023-05-05

Product related fabrication checklist Declaration of Conformity (DoC)	2023-05-05 2023-06-19
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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 manufacturer, boat model and serial number, month and year of manufacturer, number of persons approved for and operational restrictions, if any, according to LSA code item 4.4.1.2 and the mark of conformity (see page 1).

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