CERTIFICATE OF CONFORMITY – EC

Certificate No:
MED-G-2036
Item No:
A.1/1.17
Job Id:
344.1-000558-40

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/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 Lifeboat

with type designation and item/batch number
HLB1050, Hull no. 149

Issued to
Oceanwide S.a.S.
ROTTERDAM, Netherlands

is, by design assessment and product verification, in accordance with Module G in the Directive and found to comply with
Annex A.1, item No. A.1/1.17 and Annex B, Module G in the Directive. SOLAS 1974 as amended, Reg. III/4, III/21, III/31, III/34 & X/3, LSA Code and 2000 HSC code 8.

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

Høvik, 2015-05-05
for **DNV GL AS**

Notified Body No.: **0575**

Marianne Strand Valderhaug **Head of Department**	DNV GL local office: **Rotterdam, Product Certification /Verification**	**Tessa Biever** **Surveyor**

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Product description

Totally enclosed hyperbaric lifeboat. Fire-protected and with self-contained air support system. The lifeboat is approved with entrance to hyperbaric chamber from below and on the side.

Length:	10.50 m
Breadth:	3.35 m
Depth:	1.28 m
Weight of boat, fully equipped:	16980 kg
Weight of boat, fully manned 82.5 kg:	18300 kg
Hook manufacturer and type:	Norsafe TOR MKII 14T, onload
Hook SWL Norsafe TOR MKII	14000 kg
Hull material:	GRP
Propulsion system:	Inboard engine
Engine manufacturer and type:	Steyr MO144M38 106 kW
Bollard pull:	5.2 kN
Hyperbaric chamber	Diving Decompression Chamber IHC Hytech B.V., Type: DDV18 Length: 5500mm, I.D.: 1750mm Volume: 12000L

Application/Limitation

Approved engine power:	106 kW
Maximum number of persons (82.5 kg):	12 divers and 4 crew
Maximum load of persons (82.5 kg):	1320 kg

For hyperbaric evacuation this lifeboat shall also hold (or be part of) a Certificate stating conformity to the relevant IMO publications regarding Hyperbaric Escape Units or equivalent Class publications as e.g. DNV-RP-E403.

The lifeboat shall only be operated onboard ships with a Contingency Plan for hyperbaric evacuation developed by the shipowner and approved by the ship's Flag Administration or designated Recognized Organization.

Lifeboat 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 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.

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Type Examination documentation

Technical file as per approval letter	2008/07/17
Prototype test report witnessed by DNV	2009/07/09 2009/12/23 2010/04/01

Additional/ updated drawings for HLB1050/18, Hull no. 149:

- dwg. no. HLB 1050-14120-01-01, Rev. A (General arrangement)	2014-06-10
- dwg. no. HLB 1050-14120-02-01, Rev.0 (Laminate of hull)	2014-06-25
- dwg. no. HLB 1050-14120-02-04, Rev.0 (Stiffeners and bonding)	2014-06-25
- dwg. no. HLB 1050-14120-19-01 Rev. A (Recess for gas and E-connection)	2014-06-25
- dwg. no. HLB-STD-22-00 (8 sheets), Rev. G (Electrical diagram)	2014-10-02
- dwg. no. HLB-STD-22-01, Rev. B (Electrical diagram)	2014-10-02
- dwg. no. HLB 1050-14120-02-02, Rev. 0 (Laminate of aircases)	2014-06-25
- dwg. no. HLB 1050-14120-03-02, Rev. 0 (Longtudinals and bulkheads)	2014-06-25
- dwg. no. HLB 1050-14120-03-01, Rev. 0 (Inserts in bottoms)	2014-06-25
- dwg. no. HLB 1050-14120-02-03, Rev. 0 (Laminate of canopy and toplining)	2014-06-25

Load testing, 200%, witnessed by DNV GL	2014-11-17
Fabrication checklist	

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), IMO Res. MSC323(89) and IMO MSC/Circ. 1006.

Marking of product

The product is to be indelibly marked with name of manufacture, type designation, dimensions and date of manufacture, according to LSA code item 4.4.1.2 and the mark of conformity. In addition, the manufacturer shall affix the Mark of Conformity followed by Notified Body No. and the two last digits of the production year.
List of lifeboat equipment to be posted in the boat.