

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 Lifeboats

with type designation(s)
VG 7.5 F/C

Issued to

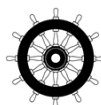
Vanguard (Nantong) F.R.P. Co., Ltd.
Nantong Jiangsu, China

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

Annex A.1, item No. A.1/1.17 and Annex B, Module B 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, 2015-09-01
for **DNV GL AS**



This Certificate is valid until
2020-08-31

Notified Body No.: **0575**

Petter Langnes
Head of Department

DNV GL local office:
Nantong

Martin Gjelstad
Surveyor

Job Id: **344.1-002785-11**
Certificate No: **MEDB0000080**

Product description

This Certificate is valid for two boat types:

- a) Totally Enclosed Lifeboat/Rescueboat
- b) Totally Enclosed Fire Protected Lifeboat/Rescueboat with self contained air support system

Length: 7.50 m
Breadth: 2.86 m
Depth: 1.15 m

Weight of boat, fully equipped dry cargo version: 3220 kg
Weight of boat, fully manned 82,5 kg / 98 kg: 8665 kg/ 8610 kg
Weight of boat, fully equipped tanker version: 3500 kg
Weight of boat, fully manned 82,5 kg / 98 kg: 8945 kg/ 8890 kg

Hook manufacturer and type: Vanguard Nantong,Csafe5, onload
Hook SWL 50 kN

Hull material: GRP

Propulsion system: Inboard engine
Engine manufacturer and type: Zhenjiang Siyang 380J-3
BUKH DV24RME
BUKH DV29RME
Nanni N3.30

Bollard pull: 3.2 kN (380J-3)
2.6 kN (BUKH DV24)
3.1 kN (BUKH DV29)
3.0 kN (Nanni N3.30)

Application/Limitation

Approved engine power: 22 kW
Maximum number of persons 82,5 kg / 98 kg (rescue boat): 66 / 55 (6)
Maximum load of persons 82,5 kg/ 98 kg: 5445 kg / 5390 kg

Lifeboat & 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 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.

Type Examination documentation

Basis for approval:

Drawings (as applicable)	2004-06-0 / 2010-10-06 / 2013-05-08
Prototype test report	2003-11-24/25 / 2010-09-1/2 / 2013-01-16 (hook replacement) / 2013-08-13 (two rear doors)
Impact test report	2010-09-10 /2013-08-15
Surveyor's checklist	2010-09-1/2

Job Id: **344.1-002785-11**
Certificate No: **MEDB0000080**

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. MSC.323(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.

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

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 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 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.