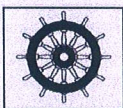


EC DECLARATION OF CONFORMITY



0062/16

*Issued in accordance with the***Marine Equipment Directive (MED) 2014/90/EU**

This declaration is to attest that

Palfinger Boats BV.**Harderwijk, The Netherlands**

declares that the product detailed below complies with the relevant requirements of the Council Directive 2014/90/EU of 23 July 2014, and the type as described in the EC type-examination certificate:

22729/B1

issued by Bureau Veritas (0062)

Quality system approved by Bureau Veritas under certificate number: SMS.MED.D/75715/A.4

Product Details:

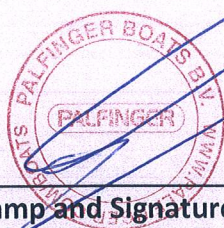
Description:	RSQ 450 G	Type:	A.1/1.18
Serial number:	60160088		Rescue Boat
Number of persons:	6	Quantity:	1
Length/Breadth/Depth (m):	4,32x1,75x0,56	Material:	GRP
Light weight(Fully Equipped):	499 kg	Full Load:	994 kg
Engine Type :	Mercury 40 2S	Towing force:	2140 N
Engine Serial number:	2B086799	Sling Type:	4-Point
Type of launching system:	Single fall system	Sling Serial:	03.14EG1149
Radar reflector:	Trem Navy Star	Compass :	Offshore 135



This equipment is build according to Chapter III of the international Convention for the Safety of Life at Sea (SOLAS) 1974, as amended, up to and including the LSA code, and finally tested and inspected according to IMO Resolution MSC.81 (70) part 2, as amended.



Onboard testing in accordance with IMO Resolution MSC.81(70), part 2 §5.3 remains to be completed



Stamp and Signature

Start production date: **27-5-2016**Date: **8-7-2016**Name: **D. van Ginkel**Title: **Operational manager**

PRODUCTION TEST REPORT

Customer :		Sales order no :	
Shipyard :		Production / Hull no. :	60160088
Hull / Project no :		Inspection :	Bureau Veritas

Boat type :	RSQ 450 G	Type approval no. :	22729/B1 EC (issued by Bureau veritas)
Weight excl. persons :	499 Kg	Manufactured by :	Palfinger Boats
Weight incl. persons :	994 Kg	Checked by :	Palfinger Boats

Capacity: :	6	Persons (including one person lying down on a stretcher)
Type of launching system	Single fall system, four point slings	
Material	GRP	
Length/Breadth/Depth (mm)	4320 / 1750 / 560	
Testing standard :	IMO MSC81 (70) / 48(66)	

Surveillance certificate / report No.
1545HPG16
Testload: 1988 Kg

Inspection date:
08th July 2016

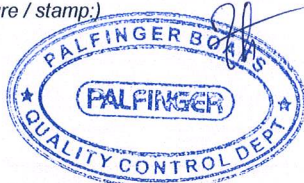
GENERAL BOAT TEST:

Load test
(Acc. LSA code § 5.3.4.)

2 x weight boat incl. persons = 1988 kg

Palfinger Boats representative:

(Signature / stamp:)



Vu Nhat Thang

Name Surveyor:

(Signature / stamp:)



NGUYỄN XUÂN TRƯỜNG
SURVEYOR TO BUREAU VERITAS



Marine & Offshore
Division

Certificate number: 22729/B1 EC

File number: LSA 75715/04

Annex A1 Item number: A.1/1.18

This certificate is not valid when presented without the full
attached schedule composed of 7 sections
www.veristar.com

Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

EC TYPE EXAMINATION CERTIFICATE

as per Module B of European Union Council Directive 96/98/EC on marine equipment
as amended by Commission Directive 2014/93/EU

This certificate is issued to

Palfinger Boats B.V.
HARDERWIJK - NETHERLANDS

for the type of product

RIGID RESCUE BOATS
RSQ 450 G

Requirements:

SOLAS 74 Convention as amended, Regulations III/4, X/3, III/21, III/31 and III/34
IMO Res. MSC.48(66) amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93) I, V
IMO Res. MSC.36(63)-(1994 HSC Code)- as amended, 8
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8
IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89),
MSC.378(93)
IMO MSC/Circ.980 and IMO MSC/Circ.1006

This certificate is issued on behalf of the French Maritime Authorities to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.


This certificate will expire on: 07 Sep 2020

For BUREAU VERITAS Notified Body 0062,

At BV GRONINGEN, on 08 Dec 2015,

John Mondt



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Rigid Rescue Boat of G.R.P Construction launched by 4 points lifting slings,

Type: RSQ 450 G

Main Particulars	RSQ 450 G
Length Over All	4 320 mm
Breadth Over All	1 750 mm
Depth to Gunwale	560 mm

Engine tested with RSQ 450 G	Selva Naxos 15 HP	Selva Antibes 25 HP	Mercury 25	Yamaha 25N	Mercury 40	Yamaha 40V
Light Weight (Fully equipped)	458 kg	480 kg	474 kg	476 kg	499 kg	499 kg
Full Load (6 persons)	953 kg	975 kg	969 kg	971 kg	994 kg	994 kg
Associated Fuel Tank Capacity	23 L	23 L	25 L	25 L	30 L	30 L

Maximum Capacity: 6 persons including one person lying down on a stretcher

2. DOCUMENTS AND DRAWINGS:

Design appraisal documents:

Reference	Revision	Date	Title
3FPV-100317	A	02.11.2015	General Assembly
3FP-100149	B	12.03.2010	Bolder
3FP-100188	C	21.01.2015	Electric Diagram
3FP-100193	B	25.05.2015	Inner Hull Construction
3FP-100194	B	25.05.2015	Outer Hull Construction
3FP-100196	B	06.05.2014	Lifting Lug
3FP-100198	B	10.06.2015	Lifting Lug Counterfoundation Plate
3FP-100202	E	29.07.2013	Sticker & Annotations Drawing
3FP-100220	C	21.06.2013	Assembly Drawing
3FP-101810	D	06.08.2015	Laminating Schedules
3FPV-100307	-	22.10.2012	Inner Hull Assembly
3FPV-100308	-	22.10.2012	Outer Hull Assembly
3FPV-100309	-	24.08.2012	Painter System Assembly
3FPV-100310	-	26.10.2012	Bailing System
3FPV-100311	-	28.10.2012	Rubber Fender & Lifeline Assembly
3FPV-100315	A	29.10.2014	Propulsion and Fuel System Assembly
3FPV-100316	-	29.10.2012	Buoyancy Calculation
3FPV-100318	-	30.10.2012	Seating Arrangement
3FPV-100319	-	30.10.2012	General Information
3FPV-100320	A	06.06.2014	Lifting Assembly
3FPV-100459	A	10.06.2014	Type Plate
Equip-manu-RSQ 450 G	A	07.07.2015	Equipment Manufacturer RSQ 450 G
3FS-100003	D	11.06.2015	Safety Equipment Rigid Rescue Boat
RSQ 450G- Resc-Equip-manu	B	21.06.2015	Rescue Equipment Manufacturers

No departure from these drawings is permitted without the prior consent of the Society.

3. TEST REPORTS:

The rescue boat was test under witnessing of Bureau Veritas as per:

- + Prototype Test Report dated 25.02.2010 and 11.03.2010 on serial number 001
- + Prototype Test Report dated 08.03.2013 and 09.04.2013 on serial number 60120060
- + Prototype Test Report dated 24.06.2014 on serial number 60130099
- + Prototype Test Report dated 28.05.2015 on serial number 60140159
- + Prototype Test Report dated 20-21.07.2015 on serial number 60150088
- + Prototype Test Report dated 24.11.2015 on serial number 60150086

The laminate material of hull and rigid cover were tested as per Fire Retardancy Test Reports No. 029.14.VL.NCPCC dated 16.07.2014, No. 028.14.VL.NCPCC dated 16.07.2014 and Strength Test Report No. 150410 dated 14.04.2015.

Maximum towing force measured with rescue boat serial number:

- 60150088: 980 N with Engine type Selva Naxos 15 HP
- 60150088: 1560 N with Engine type Selva Antibes 25 HP
- 60140159: 1863 N with Engine type Mercury 25
- 60150086: 1569 N with Engine type Yamaha 25N
- 60150088: 2140 N with Engine type Mercury 40
- 60150088: 2420 N with Engine type Yamaha 40V

4. APPLICATION / LIMITATION:

- The scope of the appraisal made by Bureau Veritas to issue this certificate is strictly restricted to the relevant requirements stated on the front page of this certificate.
- Application / limitation as per product description and requirements stated on front page of this certificate.
- The period of shelf life of equipment subjected to deterioration with age is to be indicated.
- On board installation & maintenance as per requirements stated on front page of this certificate.
- The following components shall have to comply with the requirements of MED/96/98/EC, as amended, and be wheelmarked:

+ Propulsion engine:

Manufacturer: Palfinger Boats B.V.
Type: Selva Naxos 15 HP 2-Stroke
Power: 11 kW

or

Manufacturer: Ned-Deck Marine B.V.
Type: Selva Antibes 25 HP 2-Stroke SOLAS
Power: 18.4 kW

or

Manufacturer: Brunswick Marine in EMEA
Type: Mercury 25
Power: 18.4 kW

or

Manufacturer: Yamaha Motor Europe N.V.
Type: Yamaha 25N
Power: 18.4 kW

or

Manufacturer: Brunswick Marine in EMEA
Type: Mercury 40
Power: 29.4 kW

or

Manufacturer: Yamaha Motor Co., Ltd.
Type: 40V
Power: 29.4 kW

+ Release mechanism:

With indication of the SWL

- + Position indicating lights
- + Thermal protective aids
- + Retro reflective materials
- + Radar reflector
- + Portable fire-extinguishing equipment
- + Compass: Offshore 135 (Ritchie Navigation)
- + Searchlight

- Other rescue boat equipment as listed in LSA Code chapter 5.1.2.2 and 5.1.2.3 is to be to the satisfaction of the ship's flag administration for acceptance of the equipped rescue boat on board the concerned ship.

- Electrical components including batteries to be as per documents and drawings listed in paragraph 2.

- Raw material for the G.R.P hull:

Material	Type	Manufacturer
Gel Coat	G3253 T-NC	Singapore Highpolymer Chemical Products PTE Ltd.
Polyester Resin	3254 BQTN Reversol P9539 DuraKote 9110PT	Singapore Highpolymer Chemical Products PTE Ltd. Revertex (Malaysia) SDN. BHD SP Vietnam Technologies Co., Ltd
Chopped Mat	EMC 225, EMC 450	Jushi Group Co. Ltd
Woven Roving	ESM 900	Tongxiang Hengshi Fiberglass Fabrics Co., Ltd.
Buoyancy Material	NG 55-40-5	Lackfa Isolierstoff GmbH & Co

5. PRODUCTION SURVEY REQUIREMENTS:

- The raw materials are to be traceable in case of compatibility problems in repair.

- This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

- Each rescue boat intended to be fitted onboard a ship registered to a National register adhering to the Directive shall be delivered with a Declaration of Conformity.

- The manufacturer shall keep records of any production tests carried out in accordance with instructions given in IMO resolution MSC.81(70) Part 2 as amended.

- Each equipment, or batch of equipment, is to be supplied with its Manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

The rescue boat shall be marked with:

- Markings as per MED 96/98/EC: ☐ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.
- Markings as per chapters 1.2, 4.4.1.2 and 4.4.9 of LSA Code as amended.

7. OTHERS:

- This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the rescue boat at any time, and that the Manufacturer will accept the responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the rescue boat and the conditions of this approval.

- This certificate supersedes the previous Type Examination Certificate No. 22729/B0 EC issued on 07.09.2015 by the Society.

*** END OF CERTIFICATE ***



Marine & Offshore
Division

BUREAU
VERITAS

Certificate number: SMS.MED.D/75715/A.4

Notified Body N° 0062

www.veristar.com

MED 96/98/EC QUALITY SYSTEM MODULE D CERTIFICATE

This certificate is issued under the French Maritime Authority, in compliance with the Council Directive 96/98/EC amended by Commission Directive (EU) 2015/559 as transposed in the French Regulations, to

Palfinger Boats B.V.
HARDERWIJK - NETHERLANDS

Summary of the range of the recognition which is detailed in the subsequent page(s):

FAST RESCUE BOATS - RIGID
LIFEBOAT/RESCUE BOAT PROPULSION ENGINE
RELEASE MECHANISM FOR LIFEBOATS AND RESCUE BOATS (LAUNCHED BY A FALL OR FALLS)
RESCUE BOAT PROPULSION ENGINE - OUTBOARD MOTOR
RIGID RESCUE BOATS
RIGID/INFLATED RESCUE BOATS

This certificate is issued to attest that BUREAU VERITAS, notified body number 0062, did undertake, at the above company's request, an assessment of the quality system for production quality assurance related to the equipment of the type described in EC type-examination (Module B) certificate(s) listed in the subsequent page(s). BUREAU VERITAS, notified body number 0062, has considered that the quality system operated was satisfying the applicable requirements of the Marine Equipment Directive 96/98/EC as amended.

This certificate will expire on: 22 Jan 2017

For BUREAU VERITAS,

At BV GRONINGEN, on 19 May 2016,

John Mondt



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

ANNEX**1. SCOPE****Products**

App. number	Date of issue	Validity date	Item designation	Trade name	Comment
19108/B2 EC	03 Jun 2015	07 May 2017	LIFEBOAT/RESCUE BOAT PROPULSION ENGINE - A.1/1.36	SELVA Antibes 25 HP 2-stroke SOLAS	
21674/B1 EC	13 Jun 2014	08 Jun 2019	FAST RESCUE BOATS - RIGID - A.1/1.20b	FRSQ 700 A SID	
21989/B2 EC	02 Feb 2015	16 Sep 2018	RELEASE MECHANISM FOR LIFEBOATS AND RESCUE BOATS (LAUNCHED BY A FALL OR FALLS) - A.1/1.26a	Off-Load Release Mechanism for rescue boats launched by a single fall, Type: CAR-F 35	
22459/B0 EC	10 Mar 2015	08 Mar 2020	RIGID RESCUE BOATS - A.1/1.18	RSQ 450 A	
22629/B0 EC	03 Apr 2015	01 Apr 2020	RESCUE BOAT PROPULSION ENGINE - OUTBOARD MOTOR - A.1/1.37	Selva Naxos 15 HP 2 stroke	
22729/B1 EC	17 Dec 2015	07 Sep 2020	RIGID RESCUE BOATS - A.1/1.18	RSQ 450 G	
23797/A1 EC	24 Apr 2015	14 Mar 2019	FAST RESCUE BOATS - RIGID - A.1/1.20b	FRSQ 600 A SID	
23882/A2 EC	10 Mar 2015	02 Mar 2019	FAST RESCUE BOATS - RIGID - A.1/1.20b	FRSQ 600 G SID	
26667/B2 EC	09 Dec 2014	19 Dec 2018	RIGID/INFLATED RESCUE BOATS - A.1/1.43	RSQ 475 A HFI	
35913/A1 EC	13 Jun 2014	02 Feb 2019	FAST RESCUE BOATS - RIGID - A.1/1.20b	FRSQ 850 A TID HFF	
36358/A1 EC	09 Oct 2014	10 Sep 2019	RIGID RESCUE BOATS - A.1/1.18	RSQ 475 G	
37616/A1 EC	09 Dec 2014	27 Aug 2019	RIGID/INFLATED RESCUE BOATS - A.1/1.43	RSQ 475 A SLI	
39457/A2 EC	17 Feb 2016	04 Feb 2020	FAST RESCUE BOATS - RIGID - A.1/1.20b	FRSQ 700 A TID	
42053/A0 EC	05 Oct 2015	02 Oct 2020	FAST RESCUE BOATS - RIGID - A.1/1.20b	FRSQ 600 G SID ICG	

USCG marking as per US-EC MRA

App. number	Trade name	USCG marking as per US-EC MRA	Comment
21989/B2 EC	Off-Load Release Mechanism for rescue boats launched by a single fall, Type: CAR-F 35	160.170 / EC 0062 / 21989 B2 EC	

2. LIMITATIONS

The EC type-examination certificates listed in the scope are to be valid.

Bureau Veritas is to be informed immediately of any modification to the quality system in order to agree on appropriate actions.

Palfinger Boats B.V. has to apply for the periodical audits as agreed with Bureau Veritas.

Palfinger Boats B.V. must draw up a written EC declaration of conformity to type in compliance with the article 10 of the MED 96/98/EC.

Palfinger Boats B.V. must affix the mark of conformity in compliance with the article 11 of the MED 96/98/EC taking into consideration the following example:



0062/xx

Where xx are the last two digits of the year in which the mark is affixed.

3. REMARKS

This certificate replaces SMS.MED.D/75715/A.3 due to newly issued certificates.

Periodical audits to be requested by the company for at least once a year.

Company changed name into Palfinger Boats as per 01-07-2014 and relocated to

Pasteurdijk 8
3846 BS Harderwijk
the Netherlands

*** END OF CERTIFICATE ***

MERCURY

Mercury Marine
Marine Products and Services

W6250 Pioneer Road
P.O. Box 1939
Fond du Lac, WI 54936-1939 USA
Phone: 920-929-5000
www.mercurymarine.com

Outboard Engine: 40hp 2-Stroke Model Number 7041217UF

Serial Numbers: 2B086799

Supplied To: Palfinger Boats BV

EUROPEAN COMMUNITY DECLARATION OF CONFORMITY

Issued in accordance with the
MARINE EQUIPMENT DIRECTIVE (MED)

This is to certify that in compliance with the Council Directive 96/98/EC of 20 December 1996 on marine equipment, as amended by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU, 2012/32/EU, 2013/52/EU, 2014/93/EU, and 2015/559 and Directive of the European Parliament and the Council.

Mercury Marine,
Fond du Lac, Wisconsin
United States

Declares that the product detailed below conforms to type as required by the above Directives as evidenced by Conformity Route below:

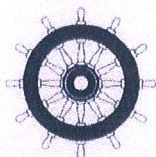
EC Type Examination (Module B) Certificate No. MEDB00000S6
Issued February 12, 2016 by the Notified body (DNV No. = 0575)

&

EC Certificate of Conformity (Module D) No. MEDD0000078 rev 2
Issued April 5, 2016 by the Notified body (DNV No. = 0575)

Manufacturer's Product

Code or type: Mercury and Mariner 40 horsepower 2-Stroke outboard engine



Notified Body No.: 0575

Hp / kW: 40 / 29.8	Max RPM: 5500
Displacement: 0.644 L	
Gear Ratio: 2.0:1	Bore: 76 mm
Gear Oil: SAE #80-#90	Stroke: 71 mm
Cylinders: 2	

Name: David Oughton
Title: Regulatory Technical Specialist

Dave Oughton

17-08-2016
(Date)



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2010/68/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-7826

This is to certify that the
Rescue boat propulsion engine-outboard engine

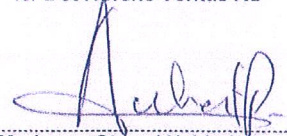
with type designation(s)
Mercury Outboard Engines "See product description page 2"

Manufacturer
Mercury Marine
Fond du Lac WI, United States

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.37 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/34 & X/3 and LSA Code

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

Høvik, 2012-06-26
for Det Norske Veritas AS

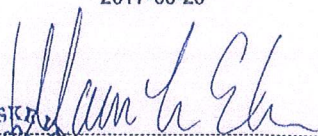

Marianne Strand Valderhaug
Head of Department



Notified Body No.: 0575

DNV local office:
Stockholm

This Certificate is valid until
2017-06-25


Hans-Kristian Eriksen
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-7826
Item No.: A.1/1.37
Job Id.: 344.1-003565-1

Product description

Engine designation (Platform)	Mercury 40/50/60 (Note 1)	Mercury 25/30 (Note 2)	Mercury 15/20 (Note 3)	Mercury 40 (Note 4)	Mercury 40/50 (Note 5)
Power (HP)	40/50/60	25/30	15/20	40	40/50
Type	4-stroke	4-stroke	4-stroke	4-stroke	2- stroke
No. of Cylinders	4	3	2	3	3
Bore (mm)	65	61	61	65	68
Stroke (mm)	75	60	60	75	64

Note 1) This platform includes standard 40-50-60, BF (Big Foot) version 40-50-60 and Jet version 40 engines. The difference in power is made by altering the electronic ignition module.

Note 2) This platform includes standard 25-30 and Jet version 30 engines. The difference in power is made by altering the electronic ignition module.

Note 3) This platform includes standard 15-20 and BF (Big Foot) version 15 engines. The difference in power is made by altering the electronic ignition module.

Note 4) This platform includes standard 40 engines.

Note 5) This platform includes standard 40-50 and Jet version 40 engines. The difference in power is made by altering the induction read valve and carburetor jetting. The engine has to be fitted with a purging system in order to pass the inversion test for fast rescue boats.

Application/Limitation

The engines are approved for use as propulsion engines for Life boats and rescue boats (Note 1-4) and life boats, rescue boats and fast rescue boats (Note 5).

To enable the engine to pass the inversion test and to comply with the LSA Code requirements for fast rescue boats, the engine must be equipped with a "post immersion restart system" (PIRS). The two systems approved for this purpose are the E.P.Barrus PIRS and E.P.Barrus Fast PIRS - systems, manufactured by E. P. Barrus Ltd, Oxfordshire, UK.

Type Examination documentation

Operation and maintenance manuals for the above specified engines.

Applicable Mercury outboard brochures.

E. P. Barrus Ltd. Brochure and technical specification of PIRS and FAST PIRS system.





Certificate No.: MED-B-7826
Item No.: A.1/1.37
Job Id.: 344.1-003565-1

Tests carried out

Engine designation	Mercury 40/50/60	Mercury 25/30	Mercury 15/20	Mercury 40	Mercury 40/50
Test report	ANT12-1240-5	ANT12-1240-2	ANT12-1240-1	ANT12-1240-3	ANT12-1240-4
Result	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat/ rescue boats propulsion	Passed the test for lifeboat and fast rescue boats propulsion

All test were carried out at Brunswick EMEAs premises in Verviers, Belgium on the dates of 2012-04-25 to 26 and witnessed by personal from DNV Antwerpen office.

Marking of product

The product shall be marked with manufactures trademark, type and serial number for identification

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



QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:
MEDD0000078
Revision No:
2

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 Quality System for the products

with type designation(s) as specified in the Appendix to this Certificate

Issued to

Mercury Marine
Fond du Lac WI, United States

is found to comply with the requirements applicable to it.
The quality has been assessed with respect to the procedure of conformity assessment described in Annex B, Module D in the directive.

This Certificate is valid until **2021-03-17**.

Issued at **Høvik** on **2016-04-05**

DNV GL local station:
New York

Approval Engineer:
Tin Nguyen



Notified Body
No.: **0575**



for **DNV GL AS**
Digitally Signed By: Hannevik, Svein-Olav
Location: DNV GL Høvik, Norway
Signing Date: 06.04.2016, on behalf of

Vidar Dolonen
Head of Notified Body



0575/yy

0575: Notified Body number undertaking quality surveillance
yy: Last two digits of year in which the mark is affixed



The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.
This certificate authorizes the manufacturer in conjunction with the EC Type Examination (Module B) Certificate of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.
This certificate loses its validity if the manufacturer makes any changes to the approved quality system which have not been notified to and agreed with the notified body named on this certificate and/or after lapse of time, withdrawal or revocation of the EC Type Examination (Module B) Certificate.
The Manufacturer has to apply for periodical audits to verify the maintenance and application for the quality system every 12 months.

Job Id: **344.1-001264-9**
Certificate No: **MEDD0000078**
Revision No: **2**

APPENDIX

A.1/1.37 Rescue boat propulsion engine-outboard engine

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
Mercury Outboard Engines "See product description page 2" ^{1, 2}	MED-B-7826	2017-06-25	0575	N/A
Mercury/Mariner 25/30, 40, 60 and 90 ^{2, 3}	MEDB00000S6	2021-02-11	0575	N/A

Places of production

- 1.Mercury Marine Technology Suzhou Co., Ltd., Suzhou, China,
- 2.TOHATSU MARINE CORPORATION, 4495-9 Shimodaira, Komagane, Japan
- 3.Mercury Marine, P. O. Box 1337, Fond du Lac, United States



endenburg

Certificate of Conformity

EN10204 2.2

Webbing Sling Assembly

Client no. K23050
Date of issue 03-04-14
Your order no. 70140824 VERSION 2

Fast RSQ
Marchandweg 21
3771 ML BARNEVELD

EC Declaration of Conformity

The manufacturer declares that the below mentioned products with CE marking complies with the applicable essential safety and health requirements of the EC Machinery Directive 2006/42/EC.

The described material was manufactured and processed in a manner compatible to meeting the load ratings when used under normal and proper applications.

This declaration becomes invalid if technical or operational modifications in the described material are introduced without the manufacturer's consent.

Workorder	14-1105	Product ID Code	webbingsling 4-leg 2x1.3M 2x1.78M 30mm Duplex
Delivery note	VL14-1860	03.14EG1135 / 03.14EG1159	material polyester color paars WLL 1T -on top
Article no.	351HB4-HP40	Ref. user	masterlink assembly MTS AISI316 L 22 I -below
Service group	82HB-10406		4xshackle Hmb AISI316 0.6T -WLL 1.26T 0-45 SF6 lifting
Quantity	25 Piece		purpose HP40 proofload 2x WLL loopeyes half width

type	webbingsling 4-leg
length	2x1.3M 2x1.78M
sling width	30mm Duplex
material sling	polyester
sling colour	paars WLL 1T
material yarn	polyester
top connection	masterlink assembly
top connection type	MTS AISI316 L
top connection size	22 I
bottom connection	4xshackle
bottom connection type	Hmb AISI316
bottom connection size	0.6T
WLL 0-45	1.26T
safety factor	SF6
purpose	lifting purpose
drawing	HP40
note	proofload 2x WLL
note li	loopeyes half width

Only use webbing slings equipped with a readable label

Name and address of inspection company	Recommended examination frequency	New delivered	Date of first use	Signature of authorised person
Endenburg B.V. Nijverheidsstraat 4-6 NL-2802 AL GOUDA	Annual inspection 4 year examination and testing	3 April 2014 Recommended next inspection 3 April 2015 , or 1 year after date of first use	(Completed by user)	 A. Tanzarella (Technical Manager)

Bezoekadres / Visit address Nijverheidsstraat 4-6 2802 AL Gouda
Postadres / Mailing address Postbus/PO box 252 2800 AG Gouda
T +31 [0]182 51 55 44 F +31 [0]182 51 79 00 E info@endenburg.com I www.endenburg.com
Handelsregisternr. / Chamber of Commerce 29002362 BTW / VAT nr. NL001706664B01





**Marine & Offshore
Division**

Certificate number: 15085/B0 EC

File number: LSA12084/47

Annex A1 Item number: A.1/1.21

*This certificate is not valid when presented without the full
attached schedule composed of 7 sections
www.veristar.com*

Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

EC TYPE EXAMINATION CERTIFICATE

*as per Module B of European Union Council Directive 96/98/EC on marine equipment
as amended by Commission Directive (EU) 2015/559*

This certificate is issued to

Palfinger Marine Netherlands B.V.
BARNEVELD - NETHERLANDS

for the type of product

LAUNCHING APPLIANCES USING FALL (DAVITS)

Launching Appliance for Rescue Boats Launched by a Single Fall System, Type: SCH 10-5,2 LR 'Low Profile'

Requirements:

SOLAS 74 Convention as amended, Regulations III/4, X/3, III/23, III/33 and III/34

IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89) and MSC.368(93) I, VI

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8

IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89) and MSC.378(93)

IMO MSC/Circ.980

This certificate is issued on behalf of the French Maritime Authorities to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.


This certificate will expire on: 07 Jul 2021

For BUREAU VERITAS Notified Body 0062,

At BV GRONINGEN, on 07 Jul 2016,

John Mondt



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Launching Appliance for Rescue Boats launched by a Single Fall Launching System,
Type: SCH 10-5,2 LR 'Low Profile' (Arm length : 3.5m, 4.0m, 4.2m and 5.2m)

Maximum Working Load: 10 kN

Maximum Recovery Load: 10 kN at minimum hoisting speed 18 m/min

Minimum Slewing Load: 3 kN

Minimum Lowering Load: 200 kg

Slewing Subset:	
Hydraulic Pump	H1C 12 C LM1R (Brevini)
Gearbox	ED 2020/FE/76/00/B3 (Brevini)

Stored Energy for Outboarding:	
Maximum Slewing Angle	210°
Accumulator Type	SB330 (Hydac)
Capacity	2 x 32 L

Wire rope:

Diameter: 14 mm

Minimum Breaking Strength including assembly with thimble: 60 kN

Specifications: Rotation and Corrosion Resistant

2. DOCUMENTS AND DRAWINGS :

Design appraisal documents:

Reference Number	Revision	Status Date	Title
3P-5005724	B	23.01.2015	SCH 10-5.2
3P-2020088	B	28.04.2016	Arrangement SCH 10-5.2
3P-2020067	-	24.02.2016	Arrangement SCH 10-5.2 (5.2m)
3P-2011853	-	24.02.2016	Arrangement SCH 10-5.2 (5.2m)
3P-103270	B	01.02.2016	Davit Arm SCM SCH (5.2m)
3P-2020068	A	03.02.2016	Assembly SCH 10-5.2 (5.2m)
3P-2019285	-	24.02.2016	Arrangement SCH 10-5.2(4.0m)
3P-2011856	B	15.01.2016	Davit Arm SCH (4.0m)
3P-2011855	B	24.02.2016	Assembly SCH 10-5.2 (4.0m)
3P-2015280	A	30.11.2015	Davit Arm SCH (4.2m)
3P-5005711	A	23.01.2015	Assembly SCH 10-5.2 (4.2m)
3P-2019958	-	24.02.2016	Assembly SCH 10-5.2 (3.5m)
3P-2019895	A	10.03.2016	Weld Assy Davit Arm (3.5m)
3P-100061	C	18.02.2016	Welding Innercolumn IM
3P-100750	B	06.10.2014	Sheave Assembly
3P-103266	B	18.09.2015	Welding Outercolumn
3P-103272	B	03.02.2016	Assembly Undercolumn
3P-103276	A	26.05.2015	Main Assy SCH 10-5.2 R LH
3P-1000458	A	01.06.2015	Shaft Ø60 L530
3P-1000459	-	12.02.2015	Securing Pin
3S-SH-16-01	A	09.09.2014	Sheave 14-16mm
E-1509019	-	22.09.2015	Electric Diagram
H-100820	A	06.04.2016	Hydraulic Diagram
3P-100915	E	01.03.2016	MED Name Plate

No departure from these drawings is permitted without the prior consent of the Society.

3. TEST REPORTS :

The davit SCH 10-5,2 LR was tested under witnessing of Bureau Veritas as per following tests reports

- Davit serial number 181305-1 was tested as per prototype tests report dated 06.04.2005.
- Davit serial number 160162-1 was tested as per prototype tests report dated 13.06.2016.

4. APPLICATION / LIMITATION :

- The scope of the appraisal made by Bureau Veritas to issue this certificate is strictly restricted to the relevant requirements stated on the front page of this certificate.
- Minimum hoisting speed 0.3 m/s for Rescue Boats.
- Application/ limitation as per product description and requirements stated on front page of this certificate.
- To be stowed on board in a state of continuous readiness for launching in not more than 5 min when the ship is sailing.
- Steels according to part list of drawings with relevant Manufacturer's documents.
- Falls, suspension chains, links and blocks as per documents and drawings listed in paragraph 2.
- On board installation & maintenance as per requirements stated on front page of this certificate.
- The following components shall have to comply with the requirements of MED/96/98/EC, as amended, and be wheelmarked:
 - + Associated winch Type: 04-04 E/ES (Palfinger Marine)
 - + Release mechanism Type: CAR 35 ((Palfinger Marine)

5. PRODUCTION SURVEY REQUIREMENTS :

- This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

- Each davit intended to be fitted onboard a ship registered to a National register adhering to the Directive shall be delivered with a Declaration of Conformity.

- The manufacturer shall keep records of any production tests carried out in accordance with instructions given in IMO resolution MSC.81(70) Part 2. as amended.

- Each equipment, or batch of equipment, is to be supplied with its Manual(s) for installation, use and maintenance.

-For information on the production phase modules, Palfinger Ned-Deck has declared the following manufacturing places :

Palfinger Marine Netherlands B.V.
Ambachtsweg 10
3771 MG BARNEVELD, NETHERLANDS

Palfinger Marine Vietnam Co., Ltd
Road D2, Area D, IZ Pho Noi A,
Hung Yen, VIETNAM

6. MARKING OF PRODUCT :

The Launching Appliances shall be marked with:

- Manufacturer's name
- Serial number
- Maximum Working Load
- Markings as per MED 96/98/EC: ☒ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.
- Markings as per Chapter 1.2 of the LSA Code.

7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the davit at any time and that the Manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the equipment and the conditions of this approval.

- This Certificate supersedes the previous Type Examination Certificate No.15085/A3 EC issued on 30.01.2015 by the Society.

*** END OF CERTIFICATE ***



Marine & Offshore
Division

Certificate number: 1149HPG16EC

Marine Equipment Directive
MED 96/98/EC

Notified Body N° 0062

www.veristar.com

CERTIFICATE OF CONFORMITY

as per Module F of European Union Council Directive 96/98/EC of 20 December 1996 on Marine equipment as amended

This certificate is issued under the French Maritime Authority to:

PALFINGER MARINE VIETNAM CO., LTD

Hung Yen - VIETNAM

to attest that appropriate examinations and tests have been carried out, in the presence of BUREAU VERITAS, to check that the product detailed below complies with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 amended by Commission Directive (EU) 2015/559, and the type as described in the EC type-examination certificate mentioned below:

A.1/1.21 - LAUNCHING APPLIANCES USING FALL (DAVITS)

Description : Lanching Appliance with Single Fall System

Design review : Type approval ref(s) : 15085/B0 EC

Quantity : 1 set

Type	: SCH 10-5.2 LR
Drawing number & revision	: 3P-2020067/3P-101268B
Declared as intended for	: Viking Life-saving Equipment Pte Ltd.
Reference of the Declaration of Conformity	: 1149HPG16
Piece / Serial number(s)	: 160165-1
Maximum working load	: 10 kN
Scope of inspection	: Witnessed to static test of davit at 2.2 SWL (22 kN)
SWL boat	: 10 kN
Max Recovery load	: 10 kN
Min Lowering load	: 2 kN
	: Visual examination of davit after test
	: Review of manufacturer files
Associated winch type	: 04-04 E

List of attached documents : EC Type Examination Certificate No 15085/B0 EC
Manufacturer's Declaration of Conformity
Final Acceptance Test Report

This certificate authorizes PALFINGER MARINE VIETNAM CO., LTD to affix the "mark of conformity" (wheelmark) to the product detailed herein.

Mark(s) and identification affixed:  0062/16 & 1149HPG16

Last survey : 12 Apr 2016
Surveyor : Van-Binh Nguyen

Issuance date : 10 Aug 2016
Local office : BV HAIPHONG





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The Electronic Version is available at: <http://www.veristarm.com/vn/standards/certificate.jsp?id=160165-1>
BV Mod. AdE 1527f July 2016



This certificate consists of 1 page(s)

FACTORY TEST REPORT

CUSTOMER:	VIKING LIFE-SAVING EQUIPMENT Pte Ltd	ORDER nr:	160165
YARD:	ASL shipyard, Singapore	INSPECTION:	CE  MARK / BV
HULLNR.:	H1107	RULES:	IMO MSC 81(70)/48(66)
IMO NR:	IMO 9784984		IMO MSC 36(63)/97(73)

DAVIT

Davit type	: SCH 10-5.2 LR	Serial nr. :	160165-1
Prototype test nr :	15085/ B0 EC	Manufacture nr:	VN 160045
Manufactured at :	Palfinger Marine	Checked by:	Palfinger Marine
SWL raft :	kN		
SWL boat :	10 kN		
Max.Recovery load:	10 kN		(Boat, persons and equipments)
Min Lowering load:	2 kN		
Arr/Assembly drawing:	3P-2020067	Associated winch type:	04-04 E
Calculation drawing:		Mounting Ass Drawing :	3L-101268 B

1. STATIC OVERLOAD TEST (UPRIGHT POSITION):

Full outboard position: IMO MSC 81(70) 6.1.1

Testload static: $2.2 \times \text{SWL} = 22 \text{ kN}$

Stamp on Davit



0062/16

1149 HPG 16 g

SWL: 10 kN

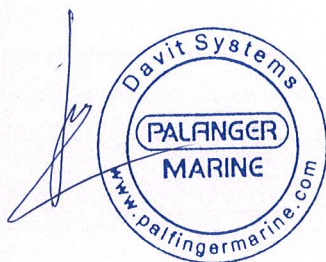
TL: 22 kN

Date test:

12-April-2016

PMV Name Representative:

Signature / stamp:



Van-Binh Nguyen



PALFINGER

PALFINGER MARINE VIETNAM Co. Ltd
Road D2, Are D, Pho Noi A IZ
Hung Yen, Vietnam

DECLARATION OF CONFORMITYN^o 1149 HPG 16

as per Module B+F of the European Union Council Marine Equipment Directive (MED) 96/98 EC, as amended by the Commission Directive (EU) 2015/559

The undersigned Company certifies that the sets of equipment specified below have been manufactured and tested according Annex : A.1/1.21

as required by the provisions of the Commission Directive (EU) 2015/559 amending Council Directive 96/98 EC on Marine Equipment and are in accordance with the Regulation, Codes or Standards stated on the EC Type approval Certificate (EC Type Examination Certificate - Module B)

15085/ B0 EC dated 7-July-'2016 valid until 7-Jul-2021

issued by Bureau Veritas for the purpose of the Directive under number : EC0062

This Declaration of Conformity is issued within the Scope of the EC Certificates Module F: 1149 HPG 16

issued by Bureau Veritas for the purpose of the Directive under number : EC0062

Which authorizes the Manufacturer to affix the CE  marine mark and the Notified Body number to the related equipment.

STANDARDS & REGULATION:

SOLAS 74 Convention as amended, Regulation III/4, III/23, III/33, III/34 and X/3

IMO Res. MSC.36(63) - (1994 HSC Code) 8.

IMO Res.MSC.48(66) amended by MSC207(81), MSC218(82), MSC272(85), MSC293(87), MSC320(89), MSC368(93) - (LSA Code) I, IV.

IMO Res. MSC.97(73) - (2000 HSC Code) 8.

IMO Res.MSC81(70) amended by MSC200(80), MSC226(82), MSC274(85), MSC295(87), MSC321(89), MSC323(89) and MSC 378(93)

IMO MSC/Circ.980


PURCHASER : **VIKING LIFE-SAVING EQUIPMENT Pte Ltd**
Order number : **160165**
Intended : **ASL shipyard, Singapore - Iron Brolga - H1107 - IMO 9784984**

EQUIPMENT: **Hydraulic Slewing Davit System**
Davit Type: **SCH 10-5.2 LR**

SWL: **10 KN**
TL: **22 KN**

For more details / information, find enclosed factory test report.

Serial number : **160165-1**
Manufacture number : **VN 160045**
Date of manufacture : **12-April-2016**

Marking and stamping :  0062/16 & 1149 HPG 16 8/

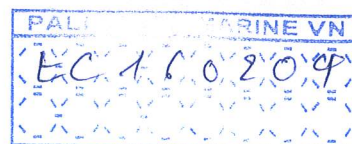
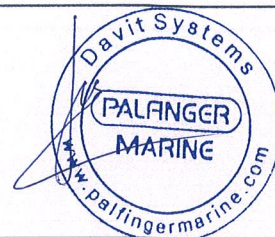
(As per para. 9 to Schedule of Approval")

SIGNED ON BEHAFT OF THE MANUFACTURER

Name : **Truong Thanh Tung**

Position : **Testing Supervisor**

Date : **13-July-2016**





Notified Body N° 0062

Marine & Offshore
Division

Certificate number: 1154HPG16EC

Marine Equipment Directive
MED 96/98/EC

www.veristar.com

CERTIFICATE OF CONFORMITY

as per Module F of European Union Council Directive 96/98/EC of 20 December 1996 on Marine equipment as amended

This certificate is issued under the French Maritime Authority to:

PALFINGER MARINE VIETNAM CO., LTD

Hung Yen - VIETNAM

to attest that appropriate examinations and tests have been carried out, in the presence of BUREAU VERITAS, to check that the product detailed below complies with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 amended by Commission Directive 2014/93/EU, and the type as described in the EC type-examination certificate mentioned below:

A.1/1.41d - WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - RESCUE BOATS**Description** : RESCUE BOAT WINCH, Type 04-04 E**Design review** : Type approval ref(s) : MED 1550260**Quantity** : 1 set**Type or Model**

: 04-04E

Piece / Serial number(s)

: 160165-1

Declared as intended for

: VIKING LIFE SAVING EQUIPEMNT PTE Ltd

Drawing number & revision

: 3L-101268 Rev.B

Safe working load

: 10 kN

Scope of inspection

: Witnessed to static load test of winch at 1.5 SWL (15 kN)

: Witnessed to dynamic load test of winch at 1.1 SWL (11 kN)

: Measured of hoisting speed: 22.0 m/min

: Measured of lowering speed: 39.6 m/min

: Visual examination of winch after test

: Reviewed of manufacturer files

List of attached documents: : EC Type Examination Certificate No MED 1550260

Manufacturer's Declaration of Conformity

Final Acceptance Test Report


This certificate authorizes PALFINGER MARINE VIETNAM CO., LTD to affix the "mark of conformity" (wheelmark) to the product detailed herein.

Mark(s) and identification affixed:  0062/16 & 1154HPG16**Last survey** : 12 Apr 2016**Surveyor** : Van-Binh Nguyen**Issuance date** : 19 Apr 2016**Local office** : BV HAIPHONG



BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

FACTORY TEST REPORT

CUSTOMER: VIKING LIFE-SAVING EQUIPMENT Pte Ltd **ORDER NR:** 160165
SHIPYARD: ASL shipyard, Singapore **INSPECTION:** CE  **MARK/** BV
HULL NR: H1107 **RULES:** LSA code as amended by
IMO NR: IMO 9784984 MSC 272(85)/274(85), MSC 81(70)

WINCHES FOR SURVIVAL CRAFT (RESCUE BOATS)

Type: 04-04 E

SWM : 5.542 kN.m Serial number: 160165-1
 SWL : 10.0 kN Manufactured nr: CP 151050
 Drum (Ø) : 224.5 mm Prototype test nr : MED 1550260
 Wire rope (Ø) : 14 mm
 Arr/ Ass Drawing: 3L-101268 B Manufactured at: Palfinger Marine
 Calculation Drawing: Checked by: Palfinger Marine


GENERAL WINCH TEST

Testload dynamic : 1.1xSWL = 11 (kN brake test)
 Testload static : 1.5xSWL = 15 (kN overload test)

PROJECT WINCH SPEED TEST

Force on winch	Required Hoisting Speed (minimum)	Tested Hoisting Speed
10.0 kN	18 m/ min	22 m/ min
Force on winch	Required Lowering Speed (minimum)	Tested Lowering Speed
10.0 kN	26 m/ min	39,6 m/ min
Centrifugal brake		
Qty of sets : 1		Spring type: C
Turning direction : <i>PWS</i>		Side weight: 1

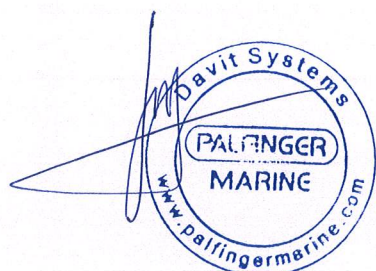
Stamp on Winch

 1154 HPG 16 Ø
 SWM: 5.542 kNm
 0062/16 SWL: 10.0 kN
 TL: 15.0 kN

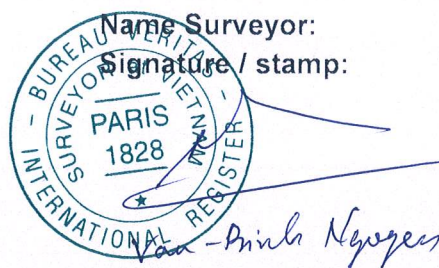
Date test:

12-April-2016

PMV Name Representative:
 Signature / stamp:



Name Surveyor:
 Signature / stamp:



PALFINGER MARINE**DECLARATION OF CONFORMITY****N° 1154 HPG 16**

As per Module F of the European Union Council Marine Equipment Directive (MED) 96/98 EC, as amended by the Commission Directive 2014/93/EU

The undersigned Company certified that the sets of equipment specified below have been manufactured and tested as required by the provisions of the with the Regulations, Codes or Standards stated on the CE Type Approval Certificate (EC Type Examination Directive 96/98 CE on Marine Equipment and are in accordance Certificate - Module B)

MED 1550260 dated 20- November- 2015 valid until 19-Nov-2020

issued by Lloyds Register for the purpose of the Directive under number : EC0038

This Declaration of Conformity is issued within the scope of Works Approval SMS.MED.D/77637/A.0

Which authorizes the Manufacturer to affix the CE ☉ marine mark and the Notified Body number to the related equipment.

PURCHASER : **VIKING LIFE-SAVING EQUIPMENT Pte Ltd**
Order number : **160165**
Intended : **VIKING LIFE-SAVING EQUIPMENT Pte Ltd - ASL shipyard, Singapore -H1107 (Iron Brolga-IMO 9784984)**

EQUIPMENT: **WINCHES FOR SURVIVAL CRAFT (RESCUE BOATS)**
Winch Type: **04-04 E**

SWM: 5.542 kN.m
SWL: 10 kN
TL: 15.0 kN

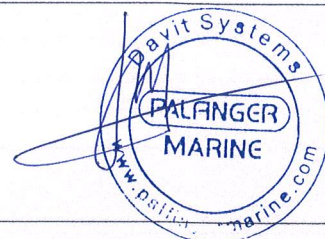
For more details / information, find enclosed factory test report.

Serial number : **160165-1**
manufacture number : **CP 151050**
Date of manufacture : **12-April-2016**

Marking and stamping : ☉
0062/16 & 1154 HPG 16 8/
(As per para. 9 to Schedule of Approval")

SIGNED ON BEHAFT OF THE MANUFACTURER

Name : **Truong Thanh Tung**
Position : **Testing Supervisor**
Date : **12-April-2016**



PALFINGER**DECLARATION OF CONFORMITY**

4627RTD15

as per Module F of the European Union Council Marine Equipment Directive (MED) 96/98 EC,
as amended by the Commission Directive 2014/93/EU

The undersigned Company certifies that the sets of equipment specified below have been manufactured and tested as required by the provisions of the Directive 96/98 CE on Marine Equipment and are in accordance with the Regulations, Codes or Standards stated on the CE Type Approval Certificate (EC Type Examination Certificate - Module B).

11175/D1 EC / 32568/A1 EC dated 13-6-2013 valid until 28-1-2018
issued by Bureau Veritas notified for the purpose of the Directive under number 0062

This Declaration of Conformity is issued within the scope of the Works Approval N°
(EC certificate Module D: SMS.MED.D/12084/D.6.)

which authorizes the Manufacturer to affix the CE  marine mark and the Notified Body number to the related equipment.

PURCHASER;

Order Nr;

Intended:

EQUIPMENT:**hook Type; Combined Release hook CAR 35**

MWL; 36 (kN)

Marking and stamping :  BV 0062 / 15

(As per para. 9 to "Schedule of Approval")

Serial No: 11869

Date of manufacture 11-12-2015

SIGNED ON BEHALF OF THE MANUFACTURER

Name: A.A. Thomassen

Position: Manager Assembling & Testing

Actual date of final delivery)*
(from stock)**Signed)***

)* This certificate is not valid unless properly dated and endorsed by distributor

Any person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personnel of the Society or its Agents in the establishment or issuance of this document, and in connection with any activities for which it may provide. The latest published Marine Division General Conditions are applicable.

BUREAU VERITAS Head Office/Siège : 17 bis. Place des Reflets - La Défense 2 - 92400 COURBEVOIE - Tel : 33 (0)1 42 91 52 91 - Fax : 33 (0)1 42 91 28 94



**BUREAU
VERITAS**

Notified Body N° 0062

**Marine & Offshore
Division**

Certificate number: 4627RTD15-02

**Marine Equipment Directive
MED 96/98/EC**

www.veristar.com

CERTIFICATE OF CONFORMITY

as per Module F of European Union Council Directive 96/98/EC of 20 December 1996 on Marine equipment as amended

This certificate is issued under the French Maritime Authority to:

Palfinger Ned-Deck B.V.

BARNEVELD - NETHERLANDS

to attest that appropriate examinations and tests have been carried out, in the presence of BUREAU VERITAS, to check that the product detailed below complies with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 amended by Commission Directive 2014/93/EU, and the type as described in the EC type-examination certificate mentioned below:

A.1/1.26a - RELEASE MECHANISM FOR LIFEBOATS AND RESCUE BOATS (LAUNCHED BY A FALL OR FALLS)

Description : OFF-LOAD RELEASE MECHANISM FOR RESCUE BOAT

Design review : Type approval ref(s) : 32568/A1 EC

Quantity : 50 pcs

Type

Batch serial number

Static testload

Max SWL

To be only used with rings:

Remark as per type approval

: Release Mechanism for RB launched by single fall, type CAR 35

: 11843 till 11892

: 2.5 x SWL (9000 kg)

: 3600 kg

: Minimum hole: 50 mm / Maximum material diameter: 100 mm

: The release mechanism is intended for single fall system only

List of attached documents :

This certificate authorizes Palfinger Ned-Deck B.V. to affix the "mark of conformity" (wheelmark) to the product detailed herein.

Mark(s) and identification affixed:



0062/15 4627 RTD 12 BV 15

Last survey : 10 Dec 2015

Surveyor : Hessel Faber

Issuance date : 10 Dec 2015

Local office : BV ROTTERDAM



BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.



**BUREAU
VERITAS**

Notified Body N° 0062

**Marine & Offshore
Division**

Certificate number: 4627RTD15-01

**Marine Equipment Directive
MED 96/98/EC**

www.veristar.com

CERTIFICATE OF CONFORMITY

as per Module F of European Union Council Directive 96/98/EC of 20 December 1996 on Marine equipment as amended

This certificate is issued under the French Maritime Authority to:

Palfinger Ned-Deck B.V.
BARNEVELD - NETHERLANDS

to attest that appropriate examinations and tests have been carried out, in the presence of BUREAU VERITAS, to check that the product detailed below complies with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 amended by Commission Directive 2014/93/EU, and the type as described in the EC type-examination certificate mentioned below:

A.1/1.26b - RELEASE MECHANISM FOR LIFERAFTS (LAUNCHED BY A FALL OR FALLS)

Description : AUTOMATIC RELEASE HOOK
Design review : Type approval ref(s) : 11175/D1 EC
Quantity : 50 pcs

Type : Automatic Release Hook for Davit-Launched Liferaft, Type: CAR 35
Batch serial number : 11843 till 11892
Static testload : 2.5 x SWL (9000 kg)
Max SWL : 3600 kg
To be only used with rings: : Minimum hole: 50 mm / Maximum material diameter: 100 mm

List of attached documents: :

This certificate authorizes Palfinger Ned-Deck B.V. to affix the "mark of conformity" (wheelmark) to the product detailed herein.

Mark(s) and identification affixed:  0062/15 4627 RTD 12 BV 15

Last survey : 10 Dec 2015
Surveyor : Hessel Faber

Issuance date : 10 Dec 2015
Local office : BV ROTTERDAM




BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

Certificate of Conformity

EN10204 2.2

Steelwire Assembly Machinery Part

Client no. K09580
 Date of issue 01-10-15
Your order no. 70140003
Vietnam Container

Palfinger Ned-Deck
 Ambachtsweg 10
 3771 MG BARNEVELD

EC Declaration of Conformity

The manufacturer declares that the below mentioned products with CE marking complies with the applicable essential safety and health requirements of the EC Machinery Directive 2006/42/EC.

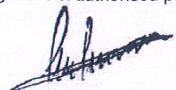
The described material was manufactured and processed in a manner compatible to meeting the load ratings when used under normal and proper applications.

This declaration becomes invalid if technical or operational modifications in the described material are introduced without the manufacturer's consent.

Workorder 14-0023	Product ID Code	25M 14mm 19x7 G1960 RHOL -inside thimble 4 inch talurit pressed -outside fused and tapered on coil
Delivery note VL14-0214	60140001.32	
Article no. S1-14-025-KP4	Ref. user	
Service group 82S-40120		

Influence on MBL assembly
 Example WLL

termination reduce MBL wire rope with 10%
 1.93T SF6

Name and address of inspection company Endenburg B.V. Industriestraat 9 NL-2802 AC Gouda	Recommended examination frequency Annual inspection	New delivered 15 January 2014 Recommended next inspection 15 January 2015 , or 1 year after date of first use	Date of first use (Completed by user)	Signature of authorised person  (Technical Manager)
--	---	--	--	--

Visit address Industriestraat 9 2802 AC Gouda **Mail address** P.O. Box 252 2800 AG Gouda

T +31 (0)182 79 65 24 **E** info@endenburg.com **I** www.endenburg.com

Chamber of Commerce no. 29002362 **VAT no.** NL001706664B01



P.O. Box 45, 7150 AA
Mors 1-5, 7151 MX
Eibergen, The Netherlands
Motor serial number(s) #1709635-001-003

CERTIFICATE N°

C15.246754-4554

Date: 2015.05.27



Test report 2.2, acc EN 10204-2.2 [2004]

Our order: V15.246754 Your order: 70152736
Your code: Vietnam Container
Customer: 134114

Palfinger Ned-Deck B.V.
Ambachtsweg 10
3771 MG BARNEVELD

Destination:
Yard.....:
Hull n°.....:
Ship.....:
Use.....: NDM: 60150002
Referentie..:

Nameplate data:

Motor type.....: 5RN112M04	Output [kW] ..: 7,00 - 7,00	Mass [kg].....: 43,0
Voltage [Vac].....: D440 - D380	Duty.....: S2-10min - S2-10min	Mounting.....: IM3041 FF215
Frequency [Hz].....: 60 - 50	Speed [min-1]: 1680 - 1385	Insulation class.....: F
Nominal current [A].....: 12,9 - 15,6	Efficiency.....:	Protection class.....: IP56
Power factor cos phi.....: 0,87 - 0,87		Cooling.....: IC410
Marine classification.....: IEC 92.301 1980 RS 3014/AW/10 50°		Amb.temp [°C].....: 50

Data from type test results, on an identical motor: (tested at: 440 Volt: 60Hz)

Load %	125	100	75	50	25	0	Starting torque dol [%]...: 168 / 160
Current [A]		12,9 / 15,6				3,93 / 5,20	Minimum torque [%].....: 157 / 143
Cos phi		0,87 / 0,87				0 / 0	Maximum torque [%].....: 178 / 181
Efficiency [%]		80,9 / 78,0				0 / 0	Starting current dol [%]..: 445 / 390
Temp. rise surface [K].....: 30 / 41	Temp. rise winding [K].....: 89 / 90						
Winding resistance phase [Ohm] at 20 °C	3,442						
Moment of inertia J[kgm²]	0,01347						
Bearings DE/NDE	/						

Special features: Heating Elements 230V 25W
Special attachment(s) ..:

Data from tests

High voltage dielectric test between phases and earth during 1 min. [Vac].....: 2000
Overload test during 15 seconds overload torque [%FLT].....: 160
Insulation resistance cold exceeding [M.Ohm]:: > 200 or as specified otherwise.
Vibration severity according IEC 34-14 dd. 11-1996 (Half key) Class "A" or as specified otherwise.



We herewith declare that the motor(s) covered by this certificate has/have been manufactured in accordance with the current standards and applicable regulations. The type test results as stated on this certificate are also applicable to this/these motor(s) as these are measured on an identical machine.



MARINE DIVISION

Certificate number: 11175/D1 EC

File number: LSA 12084/22

Annex A1 Item number: A.1/1.26b

USCG Module B number:

160.170 / EC0062

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

EC TYPE EXAMINATION CERTIFICATE

as per Module B of European Union Council Directive 96/98/EC on marine equipment
as amended by Commission Directive 2011/75/EU

This certificate is issued to

Palfinger Ned-Deck B.V.
BARNEVELD - NETHERLANDS

for the type of product

RELEASE MECHANISM FOR LIFERAFTS LAUNCHED BY A FALL OR FALLS, AUTOMATIC RELEASE HOOK

Automatic Release Hook, Type: CAR 35

Requirements:

SOLAS 74 Convention as amended, Regulations III/4, X/3, III/16 and III/34
IMO Res. MSC.48(66) amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87) and MSC.320(89)
IMO Res. MSC.36(63)-(1994 HSC Code) 8, IMO Res. MSC.97(73)-(2000 HSC Code) 8
IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87) and MSC.321(89)
IMO MSC/Circ.980

This certificate is issued under the French Maritime Authority to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.


This certificate will expire on: 28 Jan 2018

For BUREAU VERITAS Notified Body 0062,

At BV GRONINGEN, on 13 Jun 2013,

John Mondt



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Automatic Release Hook for Davit-Launched Liferaft,
Type: CAR 35

Maximum Working Load: 3600 kg

To be only used with rings: Minimum hole: 50 mm
 Maximum material diameter: 100 mm

2. DOCUMENTS AND DRAWINGS :

Design appraisal documents:

Reference Number	Revision	Date	Title
- 3S-CAR35-19	E	03.12.2012	Mounting assembly Hook CAR 35
- 3S-CAR35-01	A	02.03.2010	Side plates without holes
- 3S-CAR35-03	-	25.07.2007	Securing lever
- 3S-CAR35-05	-	25.07.2007	Latch
- 3S-CAR35-06	A	26.02.2009	Shaft
- 3S-CAR35-07	-	25.07.2007	Nut
- 3S-CAR35-11	-	25.07.2007	Shaft
- 3S-CAR35-12	-	25.07.2007	Shaft
- 3S-CAR35-15	-	25.07.2007	Shaft
- 3S-CAR35-21	B	03.03.2009	Hook
- 3S-CAR35-24	A	02.03.2010	Side plate with holes
- 3S-CAR35-57	-	25.02.2011	Marking points location or lever car hook
- 12061	A	21.11.2012	Assembly Release cable RAL 1013 « Red »
- 12062	A	31.10.2012	Assembly Release cable RAL 6024 « Green »
- 3P-1008611	-	21.12.2011	CE type plate - USCG

No departure from these drawings is permitted without the prior consent of the Society.

3. TEST REPORTS :

The Release Mechanism was tested under witnessing of Bureau Veritas as per test report dated 11.02.2011 and 15.09.2010 on serial number 1 & 2, and test report N°10626R-11.E10.30186 "Salt spray test on release hooks" dated 24.01.2011 and additional prototype tests report dated 09.01.2013 carried out on serial numbers Test hook 1 and Test hook 2.

4. APPLICATION / LIMITATION :

The scope of the appraisal made by Bureau Veritas to issue this certificate is strictly restricted to the relevant requirements stated on the front page of this certificate.

- Steels according to part list of drawings with Manufacturer's documents.
- Maximum Working Load of the Release Hook: 3600 kg.
- To be only used with rings: Minimum hole: 50 mm
Maximum material diameter: 100 mm

On board installation & Maintenance requirements :

- As per requirements stated on front page of the certificate

5. PRODUCTION SURVEY REQUIREMENTS :

- This certificate does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to the type. To this end, the production -control phase module D " Production Quality Assurance" or E "Product Quality Assurance" or F " Product Verification" of Annexe B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.
- Each release mechanism intended to be fitted onboard a ship registered to a National register adhering to the Directive shall be delivered with a Declaration of Conformity which shall be signed by the manufacturer.
- The manufacturer shall keep records of any production tests carried out in accordance with instructions given in IMO resolution MSC.81(70) Part 2 as amended by MSC.226(82), MSC.274(85) and MSC.295(87).
- Each equipment, or batch of equipment, is to be supplied with its Manual(s) for installation, use and maintenance in the language required by the ship's Flag Administration.

6. MARKING OF PRODUCT :

The Release Mechanism shall be marked with:

- Manufacturer's name
- Serial number
- Maximum working load
- Markings as per MED 96/98/EC: ☐ YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (where BV, 0062) and XX are the last two digits of year mark affixed.
- Markings as per chapters 1.2 of LSA Code as amended.

In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004, the product(s) marked as per MED 96/98/EC may be marked with the USCG conformity marking as authorized by the Notified Body undertaking surveillance module.

7. OTHERS :

- This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the hook at any time, and that the Manufacturer will accept the responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the hooks and the conditions of this approval.
- This certificate supersedes the previous EC Type examination certificate N°11175/D0 EC issued on 28.01.2013 by the Society.

***** END OF CERTIFICATE *****



Marine & Offshore
Division

**BUREAU
VERITAS**

Certificate number: SMS.MED.D/12084/D.6

Notified Body N° 0062

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MED 96/98/EC QUALITY SYSTEM MODULE D CERTIFICATE

This certificate is issued under the French Maritime Authority, in compliance with the Council Directive 96/98/EC amended by Commission Directive 2013/52/EU as transposed in the French Regulations, to

Palfinger Ned-Deck B.V.
BARNEVELD - NETHERLANDS

Summary of the range of the recognition which is detailed in the subsequent page(s):

FAST RESCUE BOAT LAUNCHING APPLIANCES (DAVITS)
LAUNCHING APPLIANCES USING FALL (DAVITS)
LIFERAFT LAUNCHING APPLIANCES (DAVITS)
RELEASE MECHANISM FOR LIFEBOATS, RESCUE BOATS LAUNCHED BY A FALL OR FALLS
RELEASE MECHANISM FOR LIFERAFTS LAUNCHED BY A FALL OR FALLS, AUTOMATIC RELEASE HOOK
WINCHES FOR SURVIVAL CRAFT AND RESCUE BOATS - DAVIT-LAUNCHED LIFEBOATS
WINCHES FOR SURVIVAL CRAFT AND RESCUE BOATS - FREE-FALL LIFEBOATS
WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - FAST RESCUE BOATS
WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - LIFERAFTS
WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - RESCUE BOATS

This certificate is issued to attest that BUREAU VERITAS, notified body number 0062, did undertake, at the above company's request, an assessment of the quality system for production quality assurance related to the equipment of the type described in EC type-examination (Module B) certificate(s) listed in the subsequent page(s). BUREAU VERITAS, notified body number 0062, has considered that the quality system operated was satisfying the applicable requirements of the Marine Equipment Directive 96/98/EC as amended.

This certificate will expire on: 21 Jan 2017

For BUREAU VERITAS,

At BV GRONINGEN, on 30 Jun 2015,

John Mondt



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

ANNEX

1. SCOPE

Products

App. number	Date of issue	Validity date	Item designation	Trade name	Comment
08426/C0 EC	17 Mar 2011	17 Mar 2016	LIFERAFT LAUNCHING APPLIANCES (DAVITS) - A.1/1.24	Manual Slewing Launching Appliance with Single Fall System, Type: SCM 14-3,5 L To be only used for	
08427/C4 EC	10 Feb 2015	21 Jun 2018	LIFERAFT LAUNCHING APPLIANCES (DAVITS) - A.1/1.24	SCM 21 - 4.0 L (Versions with Working Radius 3.50m, 3.60m and 4.00m)	
08428/C1 EC	11 Dec 2014	20 Jun 2019	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance with Single Fall System for Rescue Boats, Type: SCH 10-4,0 R	
08429/C0 EC	13 Dec 2010	13 Dec 2015	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance with Single Fall System for Rescue Boats and Lifer-afts, Type : SCH 21/14-4.5 L/	
08517/C6 EC	11 Dec 2014	03 Nov 2015	WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - RESCUE BOATS - A.1/1.41d	Electric Winch, Type: 04-04-E/ES	
09845/C0 EC	08 Oct 2014	07 Oct 2019	FAST RESCUE BOAT LAUNCHING APPLIANCES (DAVITS) - A.1/1.25	PRH-30-2	
09846/C3 EC	20 Dec 2013	15 Mar 2016	WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - LIFERAFTS - A.1/1.41c	Manual Winch for Lifer-afts: Type 04-04M	
10487/C1 EC	17 Jun 2013	17 Jan 2016	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance with Single Fall System for Rescue Boats Type : SCH 12-3,5 R (High Profile Vers	
11175/D1 EC	17 Jun 2013	28 Jan 2018	RELEASE MECHANISM FOR LIFERAFTS LAUNCHED BY A FALL OR FALLS, AUTOMATIC RELEASE HOOK - A.1/1.26b	Automatic Release Hook, Type: CAR 35	
12577/C0 EC	03 Apr 2015	01 Apr 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Slewing Davit using stored power for Rescue Boats Type SCHD30	
13537/C0 EC	31 Mar 2015	30 Mar 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance with Single Fall System for Rescue Boats Type: PRHE 20	
13538/C0 EC	31 Mar 2015	30 Mar 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance with Single Fall System for Rescue Boats, Type: PRHE 30	
14126/B1 EC	30 Jul 2013	21 Apr 2016	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for Lifer-aft/Rescue Boats using Single Fall System,	

App. number	Date of issue	Validity date	Item designation	Trade name	Comment
				Type: SCT 21-14/4.5	
15085/A3 EC	02 Feb 2015	22 Nov 2015	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for Rescue Boats Launched by a Single Fall System, Type: SCH 10-5,2 LR 'Low Prof	
19994/B3 EC	06 Feb 2015	20 Nov 2018	WINCHES FOR SURVIV- AL CRAFT AND RES- CUE BOATS - DAVIT- LAUNCHED LIFE- BOATS - A.1/1.41a	Electric Winch for Life- boats, Type: 15-03 L	
21531/B0 EC	11 Dec 2014	11 Dec 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Davit for Rescue Boat us- ing Hydraulic Stored Power Type PFHS 15	
21788/A1 EC	05 Aug 2013	21 Jan 2016	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Hydraulic Slewing Davit to be only used with Res- cue Boats and Liferrafts using Single Fall System Ty	
22255/A0 EC	19 Mar 2014	18 Mar 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for Lifeboats, Type: PFH 175	
22424/A0 EC	08 Oct 2014	07 Oct 2019	WINCHES FOR SURVIV- AL CRAFTS AND RES- CUE BOATS - FAST RESCUE BOATS - A.1/1.41e	Hydraulic Winch, Type: HW-CT-30	
23334/A2 EC	20 Dec 2013	22 Sep 2015	WINCHES FOR SURVIV- AL CRAFT AND RES- CUE BOATS - DAVIT- LAUNCHED LIFE- BOATS - A.1/1.41a	Electric Winch for Life- boats, Type: 15-02 378P	
24577/A2 EC	20 Dec 2013	27 May 2016	WINCHES FOR SURVIV- AL CRAFTS AND RES- CUE BOATS - LIFER- AFTS - A.1/1.41c	Manual Winch for Liferaft, Type: 04-04MS	
27926/A2 EC	23 Oct 2014	07 Jul 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Pivoting Davit - PFH 120 (Hydraulic stored power - for Lifeboats)	
29769/A3 EC	20 Nov 2013	06 Sep 2017	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Low Pivot Gravity Davit, to be only used for Life- boats launched by falls, Type: LPLG 135 WM	
29770/A3 EC	20 Nov 2013	10 Sep 2017	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Low Pivot Gravity Davit, to be only used for Life- boats launched by falls, Type: LPLG 135 FS	
30267/A0 EC	14 Mar 2014	13 Mar 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance us- ing Single Fall System for Rescue Boats, Type: PRH 35 H	
31587/A0 EC	26 May 2014	23 May 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance us- ing Single Fall System for Rescue Boats PRHE 25	
31648/A0 EC	29 Nov 2013	28 Nov 2018	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance, to be only used for Lifeboats launched by falls, Type: HPLG 185	
32507/A0 EC	17 Feb 2015	16 Feb 2020	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Travelling Launching Ap- pliance using Single Fall System and Hydraulic	

App. number	Date of issue	Validity date	Item designation	Trade name	Comment
				Stored power for Rescue Boats,	
32568/A1 EC	17 Jun 2013	28 Jan 2018	RELEASE MECHANISM FOR LIFEBOATS, RESCUE BOATS LAUNCHED BY A FALL OR FALLS - A.1/1.26a	Off-Load Release Mechanism for rescue boat launched by single fall system, Type: CAR 35	
35073/A0 EC	07 May 2014	06 May 2019	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Rescue Boat Launching Appliance PRHE 35-2 (SWL 3600 kg)	
35235/A4 EC	17 Feb 2015	07 Aug 2018	WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - RESCUE BOATS - A.1/1.41d	Hydraulic winch for Rescue Boat, Type: WH-46-37-0-S	
35613/A1 EC	04 Feb 2014	19 Dec 2018	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance using Single Fall System for Rescue Boats, Type: PRH 25 H	
36196/A1 EC	24 Apr 2015	19 Dec 2018	WINCHES FOR SURVIVAL CRAFTS AND RESCUE BOATS - RESCUE BOATS - A.1/1.41d	Hydraulic winch for Rescue Boats, Type: WH-55-33-0-S	
38274/A0 EC	10 Apr 2014	10 Apr 2019	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance using Single Fall System for Rescue Boats, Type: FPR 35 H	
38616/A0 EC	20 Jun 2014	18 Jun 2019	WINCHES FOR SURVIVAL CRAFT AND RESCUE BOATS - FREE-FALL LIFE-BOATS - A.1/1.41b	30 kN SOLAS	
38773/A0 EC	24 Apr 2015	22 Apr 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Roof Mounted Davit for Rescue Boat, Type: HOTT 50	
38828/A0 EC	19 Feb 2015	18 Feb 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Davit for Lifeboats and Rescue Boats Type PFH80	
39639/A0 EC	17 Feb 2015	16 Feb 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Roof Mounted Davit for Rescue Boat, Type: Hott 35-2	

App. number	Date of issue	Validity date	Item designation	Trade name	Comment
14-GD114356 7-1-EC	05 Jun 2015	19 Dec 2018	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Fixed Cantilever Rescue boat Davit; Type FPR 30	
14-GD118691 7EC	29 Apr 2014	16 Jan 2019	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Fixed outrigger Davit, Fixed twin arm cantilever lifeboat Davit; Type FPG 120-2	
14-HS114356 9EC	22 Feb 2014	10 Mar 2016	LIFERAFT LAUNCHING APPLIANCES (DAVITS) - A.1/1.24	Launching Appliance with Single Fall system, to be only used for Liferrafts; Type SCM 33-4.0 L	
MED 1450036	19 Feb 2014	18 Feb 2019	LIFERAFT LAUNCHING APPLIANCES (DAVITS) - A.1/1.24	Single Arm life raft davit type PBR33	
MED 1450039	21 Feb 2014	20 Feb 2019	WINCHES FOR SURVIVAL CRAFT AND RESCUE BOATS - DAVIT-	Winch; type WP-65	

App. number	Date of issue	Validity date	Item designation	Trade name	Comment
			LAUNCHED LIFE-BOATS - A.1/1.41a		
MED 1450040	21 Feb 2014	20 Feb 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for Life-Boats using Single Fall System; Type PFH230	
MED 1450042/M1	26 Feb 2014	24 Feb 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for rescue boat type PRH35 AP (27.5)	
MED 1450075/M1	01 Oct 2014	02 Apr 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for rescue boat type SCH 15-4.0 R	
MED 1450129	13 Jun 2014	12 Jun 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for Lifeboat and Rescue boat type FPG-85-2(L) & FPG 85-2(R)	
MED 1450130	13 Jun 2014	12 Jun 2019	WINCHES FOR SURVIV- AL CRAFTS AND RES- CUE BOATS - RESCUE BOATS - A.1/1.41d	Electric Winch for Rescue boat; Type 15-01 R	
MED 1450171	19 Aug 2014	18 Aug 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance with a Single Fall System for Rescue boats; Type PRHE 35 H	
MED 1450175	19 Aug 2014	18 Aug 2019	WINCHES FOR SURVIV- AL CRAFTS AND RES- CUE BOATS - RESCUE BOATS - A.1/1.41d	Electric Winch for Rescue boats; type 04-04H/HS	
MED 1450221	10 Oct 2014	09 Oct 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliance for Rescue Boat; Type SCH 12-3.5 R - LV	
MED 1450226	23 Oct 2014	22 Oct 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Single Arm Davit for Res- cue boat and life raft; type SCH 23/17-4.0 L/R	
MED 1450262	17 Dec 2014	16 Dec 2019	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching appliances us- ing fall (davits) PRHE 25-2	
MED 1550088	22 Apr 2015	21 Apr 2020	WINCHES FOR SURVIV- AL CRAFTS AND RES- CUE BOATS - RESCUE BOATS - A.1/1.41d	Winches for survival craft (rescue boat) 04-04 HH HS	
MED 1550089	23 Apr 2015	22 Apr 2020	WINCHES FOR SURVIV- AL CRAFTS AND RES- CUE BOATS - RESCUE BOATS - A.1/1.41d	Winches for survival craft (rescue boat) 04-04 HH ES	
MED 1550100	22 Apr 2015	23 Apr 2020	WINCHES FOR SURVIV- AL CRAFTS AND RES- CUE BOATS - LIFER- AFTS - A.1/1.41c	Winches for Liferaft 04-04 HH MS	
MED 1550135	01 Jun 2015	31 May 2020	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching appliances us- ing fall (davits) PRHE 25H-2	
MED-B-7263	02 Nov 2011	02 Nov 2016	LIFERAFT LAUNCHING APPLIANCES (DAVITS) - A.1/1.24	Liferaft Launching Appli- ance type SCT35	
MED-B-7266	02 Nov 2011	02 Nov 2016	LAUNCHING APPLI- ANCES USING FALL (DAVITS) - A.1/1.21	Launching Appliances us- ing fall (davits) type SCHD 15/30-5.0/5.5 R.S.	
MED-B-9220	03 Sep 2014	03 Sep 2019	LAUNCHING APPLI-	Launching Appliance with	

App. number	Date of issue	Validity date	Item designation	Trade name	Comment
			ANCES USING FALL (DAVITS) - A.1/1.21	Single Fall system for Rescue boats and liferafts; Type SCHD 20-4.0 R-2	
MED-B-9224	26 Jan 2015	26 Jan 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching appliances using fall (davits) SCHD 30-4.5 R-2	
MED-B-9602	27 Jan 2015	27 Jan 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching appliances using fall (davits) PLG 130 / PLG 130-2	
MED-B-9605	27 Jan 2015	27 Jan 2020	LAUNCHING APPLIANCES USING FALL (DAVITS) - A.1/1.21	Launching appliances using fall (davits) PLG 60 / PLG 60-2	

USCG marking as per US-EC MRA

App. number	Trade name	USCG marking as per US-EC MRA	Comment
11175/D1 EC	Automatic Release Hook, Type: CAR 35	160.170 / EC0062 / 11175D1 EC	

2. LIMITATIONS

The EC type-examination certificates listed in the scope are to be valid.

Bureau Veritas is to be informed immediately of any modification to the quality system in order to agree on appropriate actions.

Palfinger Ned-Deck B.V. has to apply for the periodical audits as agreed with Bureau Veritas.

Palfinger Ned-Deck B.V. must draw up a written EC declaration of conformity to type in compliance with the article 10 of the MED 96/98/EC.

Palfinger Ned-Deck B.V. must affix the mark of conformity in compliance with the article 11 of the MED 96/98/EC taking into consideration the following example:

**0062/xx**

Where xx are the last two digits of the year in which the mark is affixed.

3. REMARKS

This certificate replaces certificate SMS.MED.D/12084/D.5

Works Address :
AMBACHTSWEG 10 3771 MG BARNEVELD THE NETHERLANDS

*** END OF CERTIFICATE ***