

CERTIFICATE OF TYPE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer QUIKSLING LIMITED

Address Coutts Industrial Unit
Howmuir Road
Blackhills
Peterhead
Aberdeenshire
AB42 3LJ

Product Type MEANS FOR MAN OVERBOARD RECOVERY

Product Description Manually Operated Tension-activated Man Overboard Water Rescue Device-
Type: "QUIKSLING MKII"

Specified Standards LSA Code Regulation I/1.2
IMO Resolution MSC.81 (70) Part 1 Section 1.2 , 1.3,1.4,1.5 & 1.6
MSC.1/Circular.1447
SOLAS III Regulation 17-1

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue 21 August 2019

Expiry date 20 August 2024

Certificate No. SAS S190071

Signed



Sheet No 1 of 4

Name

L. Thomas

Surveyor to Lloyd's Register EMEA

A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



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DESIGN APPRAISAL DOCUMENT

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S190071

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

EXAMINED DOCUMENTATION

QUIKSLING MKII Technical File and design change sheet, Document No QS002/1 , dated 05/08/19.
QUIKSLING MKII operating instructions.

TEST REPORTS

- AXIS test laboratory master test report, for environmental tests, floatation test, fire test, sea water resistance test, oil resistance test, drop test , loadt test(static and dynamic). Lifting component strength test, operational tests and ingress protection test, Document No:AXTF 18016 Issue 1,
- 30 meter drop test, Report No ABN-2018-QS-001, dated 14th November 2018, witnessed by Lloyd's Register Surveyor
- Tension tests for slings and 12 mm Braid, test report No: A803866, dated 08/05/2019, conducted at Element Materials Technology.
- Visual Inspection and pool test (able body and helpless person) , Visit report 01, Control Number PRJ11092960, dated 17 December 2018, witnessed by Lloyd's Register Surveyor
- Ingress protection test, Test report No TL18130, dated 16th November 2018, conducted at MS Testing
- Environmental test for Line Dispenser, Test report No AXTF18016-2, dated 11 May 2019.
- Environmental test for QUIKSLING water rescue device, Test report No AXTF18016-3, dated 13 May 2019.
- Environmental test for Storage Device, Test report No AXTF18016-1, dated 11 May 2019.

CONDITIONS OF CERTIFICATION

1. QUIKSLING MKII is a manually operated recovery device for rescuing person in water, connected to a 12 mm buoyant rescue braid and stored in a GRP cabinet. The rescue line shall be heaved in by means of a lifting gear in form of block and tackle and or a hand or power operated winch. Where a lifting gear is used, the load capacity and location of the anchor point to which the lifting gear is fixed shall be load tested and certified. The location should be chosen in the way that the rope is not touching any sharp edges or items nor running along rough wall surfaces
2. Maximum installation height : 30 m
3. SWL : 120 Kg
4. Minimum length of rescue line: 30 m
5. Maximum out-reaching throw distance : 12 m
6. Maximum sea state at test: 3-4, Slight - Moderate (Beauford 4, wave height 1 m)

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Note: Water rescue test was conducted only at a sea state of slight to moderate conditions at a wave height of 1 m in controlled conditions of a survival pool for the ethical performance of the test using human subjects without exposing them to undue risks in open water rough sea conditions

7. **Materials and manufactures:-** as per technical file , Document no: QS002/1, Revision date 05/08/19. Any change of material and components shall be notified to Lloyd's Register
8. For each installation of the water rescue device, the "Company" (Ship Owner/Vessel Operator) should conduct and documented a risk assessment taking into account the anticipated conditions and ship-specific characteristics. Based on risk assessment,, the vessel shall have plan and procedure for recovery of person(s) from water in horizontal or deckchair position. The recovery plans and procedures should facilitate the transfer of persons from the water to the ship while minimizing the risk of injury from impact with the ships side or other structures, including the recovery appliances itself
9. A staged demonstration of the function test of the recovery device is to be carried out to the satisfaction of the attending surveyor
10. Based on installation height of the recovery device on vessel , the rope shall have sufficient length to reach, in a single length, from the deck to the waterline in the lightest seagoing condition under all conditions of trim of up to 10° and a list of up to 20° either way
11. Each device / system shall be marked with name of manufacturer, type and version identity, unique serial number and production month and year, enabling tracking of the device in production, sale and service
12. Markings should include also any operational limitations such as safe working load (SWL) or max number of persons that can be recovered with the device
13. On board drills should be conducted to ensure that the crew are familiar with this equipment and in water recovery procedures
14. The loose gear to be used in conjunction with this equipment is not part of this Design Appraisal or Certificate, but is expected to be tested in accordance with requirements of IMO Resolution MSC.81 (70) and chapter 12 of the LR Code for lifting appliance as appropriate, to the attending Surveyor satisfaction
15. For compliance with SOLAS Regulation III/35 & III/36 fully detailed operations and maintenance Manuals with clear instructions on use and repacking shall be supplied with each equipment. The instructions shall be fixed on the cover or casing of the device / system and another instruction card shall be supplied which can be hung up in conspicuous place on the vessel
16. The fitting and servicing of devices shall be done in accordance with the manufacturer's instructions by companies or person familiar with the device and accredited by the manufacturer
17. **Installation on board:** The installation of the equipment is not part of this Design Appraisal or Certificate. All such arrangements are to be to the satisfaction of the vessel's Administration and/or RO acting on their behalf on an installation-by-installation
18. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply
19. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5



Lloyd's
Register

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20. Production items are to be manufactured in accordance with a quality control procedure and records kept as required by MSC.81 (70) Part 2, Paragraph 1.2. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration
21. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained

PLACE OF PRODUCTION

QUIKSLING LIMITED
Coutts Industrial Unit
Howmuir Road
Blackhills
Peterhead
Aberdeenshire
AB42 3LJ



Lijo Thomas
Senior Specialist
Fire & Safety, Statutory Discipline Team
UK&I Technical Support Office, Marine & Offshore
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).