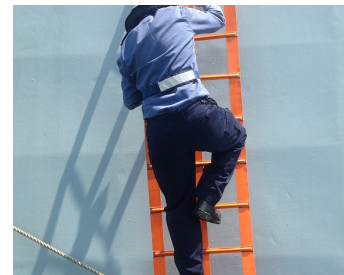


MOB Cradles, Nets, & ladders

SKU - FLEL

Fibreight Emergency Ladders



KEY FEATURES

The Fibreight Emergency Ladder is a UK MCA-approved life-saving device made of carbon fibre rods enclosed in flanged, tubular webbing, providing increased structural integrity and support. It has passed ISO 799 strength and thermal ageing, weathering, UV light, and oil resistance tests. Suitable for all vessel types, it sustained over 900kgs of load for one minute without failure.

- The CQC Fibreight ladder can be rolled out in under a minute — ideal in time-critical situations
- Can be handled and operated by one-person, suitable for vessels on their own, or with limited crews
- Strong and durable emergency equipment
- Lightweight portable design for compact stowage on-board a vessel
- In line with SOLAS regulations
- MCA accepted
- User friendly operation through Fibreight's classic lightweight design
- No requirement for annual servicing!
- Contains no metal parts - suitable for deployment on vessels and platforms with fire risks
- Double rung feature
- Can be loaded in both directions

1





MOB Cradles, Nets, & ladders

SKU - FLEL

Fibreight Emergency Ladders

SPECIFICATION

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TECHNICAL INFORMATION

- 3-year manufacturer's warranty
- Width: 0.6m
- Length: 2m - 65m
- Weight: 0.9 kg per metre
- Safe Working Load: 600 kgs
- Standard width: 600mm
- produced in lengths of 2 to 30m

Important Notice - Lloyd's Registry:

The Lloyd's Register (LR) Type Approval Certificate attached relates to the 10m and 30m Ladders being used as a Controlled Means of Descent – Marine Guidance Note 519 – as stated in the MCA letter dated 13th April 2015 (copy attached) for use on UK and REG ships, large yachts and passenger yachts for compliance with the SOLAS provisions and the corresponding requirements of the Large Yacht Code and Passenger Yacht Code detailed in the MCA letter. The MCA states that the letter does not constitute a Letter of Acceptance as reference in para 2.5 of MGN519. Surveyors of the flag Administration are required to issue a letter of acceptance before the Fibreight Emergency Ladder can be accepted and template Letter of Acceptance has been provided to all REG Administrations. The attending flag surveyor, or delegated representative, must be satisfied that the arrangements, particularly fitting arrangements to the ship, are fit for purpose on a case by case and ship specific basis.

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CERTIFICATE OF TYPE APPROVAL

This is to certify that

The product detailed below has been found by a member of the Lloyd's Register group to comply with the Specified Standard (s) referenced below and may be accepted for use on ships and offshore installations classed with Lloyd's Register, and on ships and offshore installations when authorised by relevant contracting governments.

Manufacturer	Fibreight Developments Ltd/CQC Limited
Address	Units B2 & B3 Brannam Court, Brannam Crescent, Roundswell Business Park, Barnstaple, Devon, EX31 3TD
Product Type	MEANS OF EMBARKATION
Product Description	Polyester Emergency Ladder/ Controlled Means of Descent - Type: "Fibreight"
Specified Standards	LSA Code Regulation I/1.2 IMO Resolution MSC.81 (70) Part 1 Section 1.2 & 1.4 IMO Resolution A.520(13) MGN519 (M) ISO 5489:2008 SAE J1960

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 09 July 2019

Expiry date 24 May 2022

Certificate No. SAS S170055/M2

Signed

Sheet No 1 of 5

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

Date 9 July 2019	Quote this reference on all future communications UKITSO/LSA/TA/LT/WP34120269
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170055/M2

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.

This Certificate is an Amendment of Certificate No SAS S170055/M1

EXAMINED DOCUMENTATION

Technical File Document No ajph6, Issue 1 & dated 16.04.2012.

Fibreight Emergency Ladder, Operating Instructions & Maintenance Record Document No ajph8, Issue No 3 & dated 05.01.15.

<u>Drawing No:</u>	<u>Rev. No:</u>	<u>Title:</u>	<u>Date:</u>
GA 27-02-14 Dwg 001	0	Emergency Ladder A Standard Ladder	27.02.14
GA 27-02-14 Dwg 002	0	Emergency Ladder B with Ballast	27.02.14
GA 27-02-14 Dwg 003	0	Emergency Ladder S with Stand Offs	27.02.14
GA 27-02-14 Dwg 004	0	Emergency Ladder BS with ballast and Stand Offs	27.02.14

This Certificate supersedes LR Certificate No SAS S120038/M6.

Statement for deployment of equipment Doc. No SOU 1400760/01, dated 21st July 2014 as witnessed by Lloyd's Register Surveyor.

TEST REPORTS

- Test report on weathering of sample in accordance with SAE J1960, conducted at SATRA technology centre, Report No FWT01774444/0933/A, dated 9th September 2009.
- Test report on strength requirements of BS ISO 799-2004, conducted at RKS laboratories, Report No 2608, issue 2, dated 12th May 2010.
- Test certificate for Fibreight Emergency ladder, conducted at RKS laboratories, Certificate No C2706, Issue No 1, dated 7th March 2012.
- Practical Performance test report of Fibreight Emergency ladder, conducted at Fleetwood Testing Laboratory, Report No BLS/FTL/2442, dated 23rd March 2012.
Addendum to test Report No BLS/FTL/2442 dated 16th April 2012.
- Fibreight strops tensile test, conducted at Lloyd's British Testing Laboratory, Report No 230625 and dated 23rd August 2013.
- Fibreight Emergency Ladder stainless steel ballast rungs tensile test, conducted at Lloyd's British Testing Laboratory, Report No 235376 and dated 30th January 2014.
- Practical & Performance test of Fibreight 30 mt emergency ladder with stand offs and ballast, conducted at Fleetwood Testing Laboratory, Report No DK/FTL/2617 and dated 28th February 2014.
- Tensile Test Report conducted at Lloyd's British, Report No 247049 and dated 26th November 2014.

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- Temperature Cycling Test, Oil Resistance Test and Weathering Test conducted at 4 Ward Testing, Report No R1721 and dated 2014.11.19.
- Lloyds British Testing Tensile strength test of GRP, Carbon Fibre rung ladder, report No: SOTON01, dated 14/07/2017.
- Ladder unrolling test, 65 meters of length, Test report No PRJ1109998304, dated 05.04.2019.
- Load testing of high shear carbon rod ladder rungs, test report No: PRJ-018221, dated 12th October 2018.

CONDITIONS OF CERTIFICATION
1. Ladder Dimensions and configurations:

Length	Width	Columns	Rung Material
1 to 15 meters	600 mm	2	12.5mm dia. Carbon Fibre or 12.5mm dia GRP
15 to 30 meters	600 mm	2	12.5mm dia. Carbon Fibre
1 to 10 meters	800 mm	3	12.5mm dia. Carbon Fibre or 12.5mm dia GRP
Up to 65 meters	600 mm	2	12.5mm dia. Carbon Fibre or 12.5mm dia GRP

- SWL of individual GRP rungs over any 2 section/column: 150 KG
- SWL of individual high shear carbon rungs over any 2 section/column: 200 KG
- SWL of ladder: 600 KG

Note:

- For each installation of the ladder, the "Company" (Ship Owner/Vessel Operator) should conduct and documented a risk assessment. Taking into account the anticipated condition and ship specific for survival craft characteristics and a safety case should be submitted to the Flag Administration (of the vessel on which the means of embarkation is installed) for their final acceptance
- The emergency ladder satisfy the objectives required by SOLAS REG.III/11.7 (in matter of strength, suitability for marine environment) as other means of embarkation enabling descent to the water in a controlled manner for the Liferafts required by SOLAS Reg.III/31.1.4 or Reg. III/21.1.1.2. However, it is to be confirmed that the use of this means of embarkation is acceptable to the Flag Administration (of the vessel on which the novel life-saving appliance is installed) on an installation-by-installation basis
 - In case the ladder is used for the embarkation of other survival craft rather than the ones required by SOLAS Reg.III/31.1.4 or Reg. III/21.1.1.2., the ship's owner/operator should conduct a risk assessment and a safety case should be submitted to the Flag Administration (of the vessel on which the novel life-saving appliance is installed) for their final acceptance on an installation-by-installation basis
 - The length of the ladder used to board the remotely located Liferaft should be calculated by applying an adverse list of 20 degrees, to the loading condition taken from the approved ship's loading manual which gives the lightest draft at the embarkation station

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3. Before delivery, each ladder is to be subject to a visual examination and unrolling test as per ISO 5489(2008) paragraph 5. The particulars of the test are to be clearly and durably marked on the equipment
4. The emergency ladder has to be clearly marked with the name and address of manufacturer, the manufacturer's model designation, the year of assembly of the ladder, the maximum length of the ladder and the maximum safe loading (by number of persons and by total weight)
5. On board drills should be conducted to ensure that the crew are familiar with this equipment and Ship's abandonment procedures
6. 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
7. The equipment should be clearly marked with the maximum number of persons it can accommodate, based on a weight of 82.5 kg per person
8. For compliance with SOLAS Regulation III/35 & III/36 fully detailed operations and maintenance Manuals shall be supplied with each equipment
9. **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
10. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply
11. 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
12. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. 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
13. 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

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S170055/M2
PLACE OF PRODUCTION

CQC House
 Units B2 & B3 Brannam Court,
 Brannam Crescent,
 Roundswell Business Park,
 Barnstaple, Devon,
 EX31 3TD



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).

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