



Lloyd's
Register

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 Life Cell Marine Safety Pty Ltd

Address 150 Corindi Park Drive,
Corindi Beach 2456
Australia

Product Type NOVEL LIFE-SAVING APPLIANCE

Product Description Throwable Buoyancy Device, Type "Life Cell LF1, LF2, LF3 & LF5"

Specified Standards The LSA Code Regulation I/1.2
IMO Resolution A.520(13)

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 14 October 2016 Expiry date 13 October 2021

Certificate No. SAS S160117

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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Document number SAS S160117
Issue number 1

DESIGN APPRAISAL DOCUMENT

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S160117

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

Title	Revision	Date
Assembly LF5 Universal Plate	02	07/03/2016
Assembly Life Cell LF2	03	07/03/2016
Assembly Life Cell LF3 Universal	03	07/03/2016
Life Cell LF1 Universal	02	07/03/2016
Dimension Sticker LF3	02	11/10/2016
Dimension Sticker LF1	02	11/10/2016
Dimension Sticker LF1,v2	01	04/10/2016
Dimension Sticker LF2	02	11/10/2016
Dimension Sticker LF2,v2	01	04/10/2016
Dimension Sticker LF5	01	04/10/2016

Product Description, Specification for Polyethelene for Rotational Making, Rev 2 Feb 09.
Product Data for Urethane foam, dated 21/01/2009 .

TEST REPORTS

- Personal Floatation Device, model LF1, Test Report No 150558-C, dated 30/06/2015
- Personal Floatation Device, model LF3, Test Report No 150558-A, dated 30/06/2015
- Personal Floatation Device, model LF2, Test Report No 150558-B, dated 30/06/2015
- Personal Floatation Device, model LF3, Test Report No 150558-A, dated 30/06/2015
- Personal Floatation Device, Buoyancy test, model LF3, Buoyancy Test Report No 151145, dated 18/11/2015
- Personal Floatation Device, model LF5, Test Report No 150558, dated 23/06/2015

CONDITIONS OF CERTIFICATION

- Maximum capacity:

Model	LF1	LF2	LF3	LF5
No of persons	4	3	1	1

- The use of Life Cell floatation device is not to replace the lifejackets but only to supplement wearable lifejacket
- Life Cell floatation device is not intended to aid the rescue of unconscious people in water
- Suitable for installation up to a height of 30 m from water line
- The contents of the Life Cell floatation device does not form a part of this design appraisal but it is expected that the contents stored in the floatation device is fit for marine use and is of an approved type wherever applicable
- Each unit is to be marked with the information required by LSA code Regulations 1.2.2.9
- Instructions for installation, use and maintenance are to be supplied with each unit



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8. The Life Cell floatation device may be accepted for use on installations where this is acceptable to the flag administration of that installation
9. Installation onboard: The onboard installation of the Life Cell floatation device is not part of this design appraisal or certificate. All such arrangements are to be to the satisfaction of the attending Surveyors
10. 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
11. The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Lloyd's Register and confirmation received that the proposed alteration is acceptable
12. 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
13. Production tests are to be conducted to the principles of IMO Resolution MSC.81(70), Part 2 and, as appropriate, records maintained for verification and witnessing by LR Surveyors. This does not preclude any further testing to the additional requirements of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration
14. 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



Lloyd's
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Lloyd's Register EMEA

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S160117

PLACE OF PRODUCTION

Comos Corporation Co.,Ltd.(HEAD OFFICE)

916 Moo. 6 Soi Tesban

Bangpu 19 Taiban Road

Tumbol Taiban

Muang Samutprakarn

10280 Thailand



Lijo Thomas

Senior Specialist

Statutory Fire & Safety

Southampton 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).