

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life Saving Appliance requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU and 2012/32/EU subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer	The Coleman Company, Inc.
Address	3600 N Hydraulic Wichita KS 67226 United States of America (USA)
Annex A1 Item	A.1/1.5 - IMMERSION SUITS & ANTI-EXPOSURE SUITS NOT CLASSIFIED AS LIFEJACKETS: - INSULATED OR NOT INSULATED
Product Type	IMMERSION SUITS - INSULATED
Product Description	Insulated immersion suit without head collar to be worn together with an approved lifejacket - Type: "I590C"
Specified Standard	IMO Resolution MSC.81 (70), Part 1 as amended by resolution MSC.226 (82) & MSC.323 (89).

The attached Design Appraisal Document (schedule) forms part of this certificate.

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

Date of issue 6 February 2014 Expiry date 5 February 2019

Certificate No. MED 1450106 Signed

Sheet No 1 of 4 Name

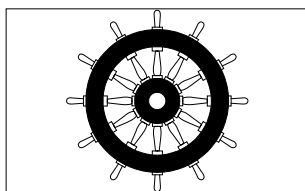


Lloyd's Register
Verification Limited
London Office
Lloyd's Register

For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

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 the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



0038/yy

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy Last two digits of year mark affixed.

This certificate is issued under the authority of the MCA.

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK.
A subsidiary of Lloyd's Register Group Limited.



Lloyd's
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Lloyd's Register Verification Limited

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Email med@lr.org

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Document number MED 1450106
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 6 February 2014	Quote this reference on all future communications MTES/SFS/TA/NR/WP17065374
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1450106

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

EXAMINED DOCUMENTATION

<u>Drawing No.</u>	<u>Rev</u>	<u>Date</u>	<u>Title</u>
MEDs02i1l04	-	24.04.2014	I590C (Type C) General Arrangement-size Adult Universal, Front View
MEDs02i1l02	-	24.04.2014	I590C (Type C) General Arrangement-size Adult Universal, Back View
MEDs02i1l06	-	24.04.2014	I590C (Type C) General Arrangement Front Alt Zipper
MEDs02i1l07	-	24.04.2014	I590C (Type C) General Arrangement Front Other Zippers
MEDs02i1l05	-	13.09.2010	I590C (Type C) General Arrangement - Other sizes, Front View
Mq545v01s004i1l28	-	08.05.2007	Immersion Suit Donning Instruction Sheet (with 4 sizes)

This Certificate is a renewal of Certificate No MED 0950054/M1.

TEST REPORTS

Underwriters Laboratories Inc's File MQ545, revision date 15.11.2007
 Underwriters Laboratories Inc's File MQ545 Project 06RT02017, dated 27.08.2007
 Stearns Inc. File MQ545, Vol. 1 Sec. 3 Pages T1-1 to T11-1 dated 25 February 1987.
 Stearns Inc. File MQ545, Vol. 1 Sec. 1 Page T15-4 dated 26 February 1987.
 Stearns Inc. File MQ545, Vol. 1 Sec. 1 Page T15-5 dated 14 December 1985.
 Stearns Inc. File MQ545, Vol. 1 Sec. 1 Pages T15-13 to T15-14 dated 14 February 1985.
 Stearns Inc. File MQ545, Vol. 1 Sec. 3 Pages T26-1 to T26-13 dated 30 May 1995.
 LR Newcastle fax dated 7 January 1998.
 Underwriters Laboratories Inc's File MQ545, Revision dated 2012.12.04.

CONDITIONS OF CERTIFICATION

- This product is available in following range of sizes:

	Max. height	Max weight
Child universal	150 cm	50 kg
Adult small	173 cm	113 kg
Adult universal	191 cm	150 kg
Adult oversize	206 cm	170 kg

- The immersion suit is to be fitted with retro-reflective material in accordance with IMO Resolution A.658 (16).
- Instruction for use shall be provided with each Immersion Suits as prescribed by SOLAS Regulation III/35 one or more additional copies shall be provided for inclusion in the Vessel's Training Manual.
- As prescribed by SOLAS Regulation III/36 and where applicable, Immersion Suit shall be maintained as prescribed by manufacturer's instructions.



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5. Each Immersion Suit and its packaging shall be permanently and clearly marked at least with: identification of the manufacturer and the model designation, the weight and height range of persons suitable to wear the immersion suit, simple donning instructions, approval information and test *"to be worn in conjunction with a compatible lifejacket"*.
6. Each Immersion Suit shall be supplied with an explanatory leaflet containing instructions for care and maintenance of the immersion suit. When carrying out the inspection of immersions are required by SOLAS Regulation III/20.7.2 consideration should be given to IMO MSC/Circ. 1047 on Guidelines for Monthly Shipboard Inspection of Immersion Suits and Anti-exposure Suits by the Ship's Crew.
7. When required, an approved light and whistle meeting the requirements of LSA Code Regulation II/2.2.3 and II/2.2.1.14, respectively, are to be fitted. The light or lights selected to be attached to the immersion suit shall be tested to the requirements of IMO Resolution MSC.81 (70), I/10.3.3 to confirm the adequacy of their means of attachment.
8. The on board arrangements and installation of this product are not part of this design appraisal or certificate. All such arrangements are to be to the satisfaction of the Surveyors attending on board.
9. 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.
10. Production items are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive.
11. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2 and be recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or witnessed by the Notified Body (LRV) as required by the Product Verification (Module F) of the Marine Equipment Directive. 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.
12. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity".
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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PLACE OF PRODUCTION

Sheico (Cambodia) Co. Ltd.
Manhattan (Svay Rieng) Spec Econ ZN
Bavet Commune, National Rd #1
Chantrea District
Svay Rieng
Cambodia



N. Ramos
Specialist
Fire & Safety
Marine Technology and Engineering Services
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038