

## 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 and 2009/26/EC subject to any conditions in the Design Appraisal Document attached hereto.

**Manufacturer** The Coleman Company, Inc.  
3600 N Hydraulic  
**Address** 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 with manually inflatable collar; can be used without additional lifejacket under administration instruction. Type: "I590

**Specified Standard** The LSA Code, Regulations I/1.2 and II/2.3.1, II/2.3.2 as amended by resolution MSC 207(81).  
IMO Resolution MSC.81(70), Part 1, as amended by resolution MSC 226(82)

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 1 September 2010

Expiry date 5 February 2014

Certificate No. MED 0950055/M1

Signed

*L. Thomas*

Lloyd's Register  
Verification Limited

Houston office

Lloyd's  
Register

Sheet No 1 of 4

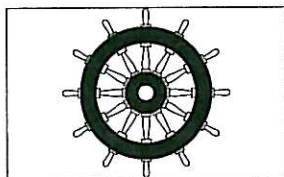
Name

L. Thomas

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 is the business name of Lloyd's Register Verification Limited, a member of the Lloyd's Register Group.

Registration number 4929226.

Registered office 71 Fenchurch Street, London EC3M 4BS, England

"Lloyd's Register, 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 Group'. The Lloyd's Register Group 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 Group 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."

**DESIGN APPRAISAL DOCUMENT**

Date 1 September 2010	Quote this reference on all future communications LDSO/TA/SFS/LT
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**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 0950055/M1**

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>
MEDs01i1l04	-	05.09.2007	1590 General Arrangement-size Adult Universal, Front View
MEDs01i1l02	-	05.09.2007	1590 General Arrangement-side Adult Universal, Back View
MEDs01i1l03	-	05.09.2007	1590 General Arrangement- Other sizes, Front View
Mq545v01s004i1l28	-	08.05.2007	Immersion Suit Donning Instruction Sheet (with 4 sizes)
MED s01i1l06	-	13.09.2010	I590 General Arrangement

**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.

**CONDITIONS OF CERTIFICATION**

- This product is available in following range of sizes:

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

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2. The immersion suit is to be worn with an approved lifejacket, unless exempted by the administration.
3. Each immersion suit and its packaging shall be permanently and clearly marked at least with: identification of the manufacturer and the model designation, the size and height range of persons suitable to wear the immersion suit, simple donning instructions, approval information and text *"To be worn in conjunction with a compatible lifejacket"*.
4. Donning and maintenance instructions are to be provided and shown as required by the applicable regulations taking into consideration the IMO guidance on wearing immersion suits in totally enclosed lifeboats as per MSC.1 Cir.1278.
5. When carrying out the inspection of immersion suits as 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.
6. The inflatable collar is for added buoyancy only and can not be considered as being a substitute for a lifejacket.
7. 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.
8. The immersion suit may also be fitted with an optional lifting harness.
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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#### PLACES OF PRODUCTION

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

Lun Tou Yue Jue Chang  
Hai Zhu Qu Lun Tou Chuen  
Lun Tou Che Zhan Xi, Yi Hang Jiu Hao  
Guangchou Shi  
Guangzhou  
Guangdong  
People's Republic of China

Sheico (Thailand) Co. Ltd.  
88/8 Moo 4 T Marby Angporn  
A Pluakdang  
Rayong 21140  
Thailand

*Liza Thomas*

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