



## 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** The Coleman Company, Inc.  
**Address** 3600 N Hydraulic  
Wichita  
KS 67226  
United States of America (USA)

**Product Type** LIFEJACKETS

**Product Description** Inherently Buoyant Infant Lifejacket – Type: "I140"

**Specified Standard** IMO Resolution MSC.81(70) Part 1 as amended by resolution MSC 200(80) and MSC 226(82).

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 11 January 2011

Expiry date 10 January 2016

Certificate No. SAS S110010

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, 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 11 January 2011	Quote this reference on all future communications LDSO/TA/SFS/LT
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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S110010**

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**

UL Report on Life Preservers and Lifejackets, File MQ429 Project 10RT02100 dated July 14, 2010.

**TEST REPORTS**

<u>Report Title or Author</u>	<u>Report No.</u>	<u>Date</u>
Test Record 1	File MQ429	14.07.2010
SOLAS in water performance	Project No: 10RT02100, File MQ429	28.06.2010
		26.04.2010
Buoyancy test, strength test(Lifting loop, shoulder, body strap), fire test	Project No: 10RT02100, File MQ429	27.04.2010
Dimensional spot check	Project No: 110RT02100, File MQ429	09.06.2010
		10.06.2010
Temperature cycling, oil resistance, compression, water absorption and buoyancy test	Project No: 10RT02093, File MQ429	29.04.2010
Strength test - buddy line	Project No: 10RT02106, File MQ429	07.06.2010
Temperature cycling test	Project No: 110RT02093, File MQ429	27.04.2010
	Project No: 110RT02100, File MQ429	
UL report on infant lifejacket	Project No: 110RT02100, File MQ429	14.07.2010

**CONDITIONS OF CERTIFICATION**

<b>Materials</b>	Buoyancy Foam	SP-1 ½ Inch manufactured by Stearns China Foam Factory
	Cover Fabric	RH 400 manufactured by Red House Co Ltd
	Front Buckle	ITW NEXUS SS-40+

- The lifejacket is approved only for use by persons with weight less than 15 kg and height less than 100 cm.

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2. The measured buoyancy of this lifejacket design is 68 N.
3. Each lifejacket shall also be marked with the information required by LSA Code, Regulation I/1.2.2.9 and II/2.2.1.10.
4. When required, an approved lifejacket light meeting the requirements of the LSA Code Regulation II/2.2.3 together with a whistle meeting the requirements of LSA Code regulations II/2.2.1.14 are to be fitted. The light is to be tested and meet the requirements of IMO Resolution MSC.81(70), Part I, 10.3 and 10.4, and its attachment to the Lifejacket confirmed.
5. 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.
6. 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.
7. 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.
8. 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.

### DESIGN APPRAISAL DOCUMENT

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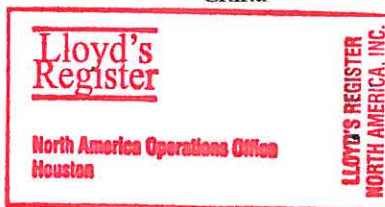
#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S110010

#### PLACES OF PRODUCTION

The Coleman Company, Inc.  
1100 Stearns Dr  
Sauk Rapids  
MN 56379  
United States of America (USA)

The Coleman Company, Inc.  
Lun Tou Yue Jue Chang  
Hai Zhu Qu Lun Tou Chuen  
Lun Tou Che Zhan Xi, Yi Hang Jiu Hao  
Guangzhou Shi  
Guangzhou  
Guangdong  
China

*L. Thomas*



L. Thomas  
Senior Surveyor  
Statutory Fire & Safety  
London Design Support Office  
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).*