



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 Adult Lifejacket – Type: " I160 "
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 S110012

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 S110012

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 10RT02093 dated July 15, 2010.

TEST REPORTS

<u>Report Title or Author</u>	<u>Report No.</u>	<u>Date</u>
Test Record 1	File MQ429	15.07.2010
SOLAS in water performance	Project No: 10RT02093, File MQ429	02.07.2010
		29.06.2010
Buoyancy test, strength test, fire test	Project No: 10RT02093, File MQ429	20.04.2010
		01-07-2010
Dimensional spot check	Project No: 10RT02093, File MQ429	03.06.2010
		01.07.2010
Temperature cycling, Oil resistance, compression and water absorption test	Project No: 10RT02093, File MQ429	29.04.2010
		27.04.2010
Strength test- body strap and shoulder lift	Project No: 10RT02093, File MQ429	27.05.2010
Strength test - buddy line	Project No: 10RT02093, File MQ429	07.06.2010
UL test report	Project No: 10RT03391, File MQ429	21.12..2010

CONDITIONS OF CERTIFICATION

Materials	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*

1. The lifejacket is approved only for use by adults of a weight 43 kg or above, each lifejacket is to be marked accordingly.
2. The minimum total buoyancy of this lifejacket design is 162 N.

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3. Each lifejacket shall also be marked with the information required by LSA Code, Regulation I/1.2.2.9.
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, the product is to be re-approved prior to its 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.

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S110012**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
Guangchou Shi
Guangzhou
Guangdong
China



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).