



CERTIFICATE NO. T.C137.049.007
CERTIFICAT N°

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TRANSPORT CANADA
**BOARD OF STEAMSHIP INSPECTION
CERTIFICATE OF APPROVAL**

TRANSPORTS CANADA
**BUREAU D'INSPECTION DES NAVIRES À VAPEUR
CERTIFICAT D'APPROBATION**

THIS CERTIFIES THAT THE ITEM SPECIFIED HEREIN HAS BEEN APPROVED BY THE BOARD OF STEAMSHIP INSPECTION, IN ACCORDANCE WITH THE PROVISIONS OF THE CANADA SHIPPING ACT AND REGULATIONS MADE THEREUNDER AND SUBJECT TO CONDITIONS SET FORTH ON THE REVERSE SIDE.

LES PRÉSENTES FONT FOI QUE L'ARTICLE MENTIONNÉ DANS LE PRÉSENT CERTIFICAT A ÉTÉ APPROUVÉ PAR LE BUREAU D'INSPECTION DES NAVIRES À VAPEUR, CONFORMÉMENT AUX DISPOSITIONS DE LA LOI SUR LA MARINE MARCHANDE DU CANADA ET DE SES RÈGLEMENTS D'EXÉCUTION ET SOUS RÉSERVE DES CONDITIONS FIGURANT AU VERSO.

ISSUED TO - TITULAIRE

Daniamant Limited
Unit 3, The Admiral Park
Airport Service Road
Portsmouth, Hampshire PO3 5RQ United Kingdom

ITEM - L'ARTICLE

**SURVIVAL CRAFT LIGHTING SYSTEM -
"Daniamant RB2-RL1" (INTERNAL) AND "Daniamant RB2-RL4" (EXTERNAL)**

DESCRIPTION

SEE ATTACHED SCHEDULE

REMARKS - REMARQUES

1. This approval is based on McMurdo test report TM-47-90 dated January 7, 1991, conducted on a prototype unit and witnessed by a D.O.T. (UK) Inspector.
2. Complies with SOLAS 74/83 as amended, the Life-Saving Appliance Code IV/4.1.3.3 and 4.1.3.4.
3. Attached Schedule forms part of this Certificate.
4. Condition of approval are specified on reverse side of this Certificate
5. The validity of this Certificate is contingent upon Lloyd's Register EC Type Examination Certificate remaining in force.

This approval supersedes approval number
La présente approbation remplace l'approbation n°

T.C.151.049.007

dated
datée du

June 3, 2003

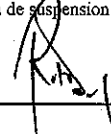
This certificate is not transferable and is effective until
Le présent certificat ne peut pas être cédé et il est valable jusqu'au

July 31, 2011

unless cancelled or suspended earlier by proper authority.
à moins d'annulation ou de suspension prématuré par l'autorité compétente.

July 18, 2006

Date


Deputy Chairman Board of Steamship Inspection
Vice-président du Bureau d'Inspection des navires à vapeur



Transport
Canada

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A8710-11-16

Canada

CONDITIONS OF APPROVAL

In the case of materials or devices, as set forth on the face of this certificate, that are covered by approval based on inspection by a Steamship Inspector and acceptance by the Board of Steamship Inspection (Board), the Divisional Supervisor, Steamship Inspection Service, of the Region in which the factory is located, shall be notified in sufficient time to assign an Inspector to the plant to make the necessary arrangements for inspection, testing and approval-stamping. The Certificate of Approval Number assigned for such cases is for the Board of Steamship Inspection (Board) record and product identification.

In the case of materials or devices, as set forth on the face of this certificate, the production of which is based on the issue of the Board of Steamship Inspection group approval number, the manufacturer shall place thereon a stamp or label of approval, indicating the Board of Steamship Inspection approval number, lot number, date of manufacture and description of material or device, and this stamp will be accepted by the Board as evidence of satisfactory manufacture in accordance with approved design and specification.

The approval of the article covered by this certificate is valid only as long as the article is manufactured in accordance with the details of the approved drawing specification or other data referred to; no modification of the approved design, construction or material shall be adopted until the proposed modification has been presented for consideration of the Board, and confirmation has been received that it is acceptable.

This certificate may be suspended or cancelled if the manufacturer deviates from the standards prescribed for the equipment herein specified.

CONDITIONS D'APPROBATION

Dans le cas des matériaux ou des appareils, mentionnés au recto du présent certificat, qui font l'objet d'une approbation fondée sur l'inspection par un inspecteur de navires à vapeur et l'acceptation par le Bureau d'inspection des navires à vapeur (le Bureau), le surveillant divisionnaire du Service d'inspection des navires à vapeur de la région dans lequel l'usine est située sera averti assez tôt pour pouvoir envoyer à l'usine un inspecteur qui prendra les mesures nécessaires en vue de l'inspection, des épreuves et d'apposition des marques d'approbation. Le numéro de certificat d'approbation assigné en pareil cas sert au classement au Bureau d'inspection des navires à vapeur (le Bureau) et comme identification du produit.

Dans le cas des matériaux ou des appareils, mentionnés au recto, dont la production est assujettie à l'homologation par un numéro d'approbation de groupe du Bureau d'inspection des navires à vapeur, le fabricant y apposera une estampille ou une étiquette d'approbation portant le numéro d'approbation du Bureau d'inspection des navires à vapeur, le numéro du lot, la date de fabrication et la description du matériau ou de l'appareil, et cette estampille sera acceptée par le Bureau comme preuve de fabrication satisfaisante, conforme aux plans et devis approuvés.

L'approbation de l'article visé par le présent certificat n'est valable que dans la mesure où la fabrication de cet article satisfait aux dessins, devis ou autres données approuvés; aucune modification du dessin, de la construction ou du matériau approuvés ne sera adoptée avant que la modification envisagée n'ait été présentée pour étude au Bureau, et que confirmation de son acceptabilité n'ait été reçue.

Le présent certificat pourra être suspendu ou annulé si le fabricant s'écarte des normes prescrites pour l'équipement mentionné aux présentes.



SCHEDULE OF APPROVAL

RB2-RL1

The light comprises RL1 light unit powered by aRB2 battery pack.

1. The RL1 consists of a lamp housing with a moulded polypropylene base, an opal polycarbonate dome and a 2.5volt 200mA lamp. An inter-connecting lead with polarized plug connects to the R2 battery pack.
2. The RB2 battery pack consists of an orange moulded plastic case containing a lithium cell and internal circuitry. The top cover is fitted with an integral polarized socket and the electrical assembly is protected against ingress of water when the plug is fitted.
3. Initial operation by pulling the tag/cord away from the battery body until it becomes detached from the bottom of the plunger switch. This also breaks a seal on the battery pack. Battery power may be conserved by the use of the plunger operated switch for ON/OFF. The battery pack is provided with a test facility, which allows operation of the light without breaking the battery seal. The light system may be automatically activated when used in conjunction with an inflatable liferaft.
4. The light system is acceptable for a drop-test requirement of 36 meters.

RB2-RL4

The light comprises RL4 light unit powered by RB2 battery pack.

1. The RL4 consists of a lamp housing with a moulded polypropylene base, a opal polycarbonate dome and a 5.2volt 850mA halogen lamp. An inter-connecting lead with polarized plug connects to the RB2 battery pack.
2. The RB2 battery pack consists of an orange moulded plastic case containing a lithium cell and internal circuitry. The top cover is fitted with an integral polarized socket and the electrical assembly is protected against ingress of water when the plug is fitted.
3. Initial operation is by pulling the tag/cord away from the battery until it becomes detached from the bottom of the plunger switch. This also breaks a seal on the battery pack. Battery power may be conserved by the use of the plunger operated switch for ON/OFF. The battery pack is provided with a test facility, which allows operation of the light without breaking the battery seal. The light system may be automatically activated when used in conjunction with an inflatable liferaft.
4. The light system is acceptable for a drop-test requirement of 36 meters.

Drawings

RB2-RL1

Drawing No.	Issue	Title
777-SPN-0001	5	Specification (9 pages)
777-8VT-0002	2	RB2 Final Assembly
777-8VT-0001	1	RL1 Liferaft standard Final Assembly
58-7010-PAT	5	Installation and Maintenance Instructions
60-0006-PAT	2	RL/LJ Light Build Schematic





SCHEDULE OF APPROVAL (CONT'D)

Drawing (cont'd)

RB2-RL4

Drawing No.	Issue	Title
645-SPN-0004	5	Specification (10 pages)
773-8VT-0002	2	RB2 Final Assembly
777-8VT-0001A	6	RL4 Final Assembly (Standard)
58-7015-PAT	6	Installation and Maintenance Instructions
60-0006-PAT	2	RL/LJ Light Build Schematic (3 pages)

Instructions and Markings

All required marking shall be specified in English and French.

Conditions

1. The lights are to be constructed in accordance with manufacturer's drawings listed above and no departure from these drawings shall be made without prior notification to Transport Canada Marine Safety.
2. The manufacturer is responsible that every light built to this Certificate of Approval corresponds to the approved prototype.
3. Production line unit approval is conditional upon compliance with MSC.81(70).
4. The light has to prove satisfactory in service.
5. The battery / light unit must be replaced on or before the expiry date marked on its label.
6. Each light to be supplied with instructions in both English and French in a form suitable for inclusion in the ship's on board Training Manual

This certificate may be suspended or cancelled if the manufacturer deviates from any of the conditions described herein without the prior consent of the Board of Steamship Inspection.

End of Certificate

