

TRANSPORT CANADA
CERTIFICATE OF APPROVAL

THIS CERTIFIES THAT THE ITEM SPECIFIED HEREIN HAS BEEN APPROVED BY TRANSPORT CANADA, IN ACCORDANCE WITH THE PROVISIONS OF THE CANADA SHIPPING ACT, 2001 AND REGULATIONS MADE THEREUNDER AND SUBJECT TO CONDITIONS SET FORTH ON THE REVERSE SIDE.

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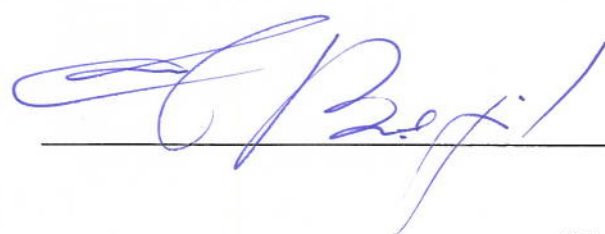
THIS CERTIFIES THAT THE ITEM SPECIFIED HEREIN HAS BEEN APPROVED BY TRANSPORT CANADA, IN ACCORDANCE WITH THE PROVISIONS OF THE CANADA SHIPPING ACT, 2001 AND REGULATIONS MADE THEREUNDER AND SUBJECT TO CONDITIONS SET FORTH ON THE REVERSE SIDE.

ISSUED TO - TITULAIRE Daniamant Limited Unit 3, The Admiral Park Airport Service Road Portsmouth 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 <ol style="list-style-type: none">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 Certificate5. The validity of this Certificate is contingent upon Lloyd's Register EC Type Examination Certificate remaining in force.

This approval supersedes approval number T.C.151.049.007 dated March 4, 2008
La présente approbation remplace l'approbation n° T.C.151.049.007 datée du March 4, 2008

This certificate is not transferable and is effective until July 31, 2016 unless cancelled or suspended earlier by proper authority.
Le présent certificat ne peut pas être cédé et il est valable jusqu'au July 31, 2016 à moins d'annulation ou de suspension prématuré par l'autorité compétente.

Signed, on behalf of the Minister of Transport by
Signé, au nom du Ministre des Transports par



July 14, 2011
Date



CONDITIONS OF APPROVAL

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 Transport Canada, 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

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 à Transport Canada, 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	7	Specification (9 pages)
777-8VT-0002	1	RB2 Final Assembly
777-8VT-0001	2	RL1 Liferaft standard Final Assembly
58-7010-PAT	9	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	6	Specification (10 pages)
773-8VT-0002	2	RB2 Final Assembly
779-8VT-0001	3	RL4 Final Assembly (Standard)
58-7015-PAT	10	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 to ensure 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
7. 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