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Certificate N°:
08210/B1 EC
File Number : LSA 7196/02
MED item number : **A.1/1.27**
This Certificate is not valid where presented without the full attached
Schedule, composed of 10 sections.



EUROPEAN COUNCIL DIRECTIVE 96/98 EC on MARINE EQUIPMENT (M.E.D.)

**EC TYPE EXAMINATION CERTIFICATE
(CERTIFICATE OF TYPE APPROVAL)**

This is to certify that Bureau Veritas, acting within the scope of its notification, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the International Instruments and testing standards under the requirements of Council Directive 96/98/EC, as amended.

MARINE EVACUATION SYSTEMS
Vertical chute type Marine Evacuation System type FSD

MANUFACTURED BY:

DBC Marine Safety Systems
Richmond (BC) - CANADA

REGULATIONS & STANDARDS in accordance with Council Directive 96/98/EC, as amended by Commission Directive 2002/75/EC :
SOLAS 74 Convention as amended, Regulations III/4, III/15, III/15, III/26.2.1, III/34 - IMO Resolution MSC.48 (66) [LSA Code] -
IMO Resolution MSC.97 (73) 8.1, 8.7 and 8.10 [2000 HSC Code] - IMO Resolution MSC.81 (70), Part 1, 12.

Expiry date: 28/01/2009

Local Office : BUREAU VERITAS VANCOUVER

At Paris la Défense, on : 30/07/2004

J.BENOIT

*Marine Equipment Certification Manager
For BUREAU VERITAS, EC Notified Body N°0062*



The Manufacturer is allowed to affix the MED Conformity Mark to approved equipment and issue a Declaration of Conformity, only when the production/product assessment module referred to in the Directive 96/98/EC, is fully complied with.

This Certificate remains valid until its date of expiry, unless cancelled or revoked, providing the conditions in the attached Schedule are complied with and the equipment remains satisfactory in service. This Certificate does not apply to equipment which has been modified from the specimen tested. Should the specified standards be amended during the validity of this Certificate, the product(s) is/are to be re-approved prior to it/they be placed on board vessels to which the amended standards apply.

This Certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

Issued under the authority of the French Maritime Administration



THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The DBC Marine Evacuation System (MES) is a vertical chute-type MES. The system consists of a vertical fabric chute, an attached inflatable boarding platform, and two associated 50-person inflatable liferafts.

The DBC MES exists in different configurations, in fact the chute is assembled from fabrics panels, each 1.4m high.

The DBC MES can exist in different height up to a maximum standard configuration which has to be at a maximum installation height of 24.5 m

There are two styles of housings:

- "O" type, designed to be installed on an exterior deck or stand above the evacuation station. The housing rests on its own stand, once the release arm is activated it can pivot forward which causes the internal sliding tray to deploy the chute pack away from the vessel's side.

- "I" type, mounted on the embarkation deck either outside or inside the vessel with a weather-tight door flange. The housing is a self contained box with a simple roll up door for entry, once the arm is released the pack can slide down and out from the vessel to deploy the system.

The associated liferafts that can be used with the DBC vertical chute are the following:

1 : the DBC 50 persons canopied reversible inflatable liferaft, throw-overboard, SOLAS B Pack, EC Type approved by the Society as per type approval certificate No:08998/A1 EC.

2 : the ZODIAC 50 persons throw-overboard automatically self-righting, SOLAS A and B pack inflatable liferaft, EC Type approved by the Society as per type approval certificate No:10153/A1 EC.

3 : the ZODIAC 50 persons throw-overboard, SOLAS A and B pack inflatable liferaft, EC Type approved by the Society as per type approval certificate No:07581/A1 EC.

4 : the ZODIAC 50 persons open reversible liferaft HSC pack EC Type approved by the Society as per type approval certificate No:11836 /A0 EC.

These liferafts must be fitted with a remote release system and with bowsing and winching arrangements

6. APPLICATION / LIMITATION OF USE :

6.1 As per requirements of regulations stated on front page of this certificate.

6.2 Max. installation heights to be as stated in "Product description".

6.3 System found suitable for the evacuation of 400 persons in an evacuation time of 30 mns.

6.4 If the system is fitted on a high speed craft, an evacuation trial is to be carried out in accordance with the requirements of 2000 HSC Code (refer to paragraph 8.2, below).

8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS :

8.1 Stowage to be in accordance with Reg.III/15 of SOLAS 74 Convention, as amended.

8.2 Installation tests to comply with IMO Res.MSC.81(70), Part 2, paragraph 7, and with either LSA Code 6.2.2.2, or 2000 HSC Code, 4.8, as relevant.

8.3 Inspections and maintenance to be in accordance with Reg.III/20 of SOLAS 74 Convention, as amended, or with 2000 HSC Code, 8.9, as relevant.

9. MARKING FOR IDENTIFICATION :

9.1 The container shall be marked as follows :

- Maker's name or trade mark.
- Serial Number.
- Name of approving authority and the capacity of the system.
- SOLAS.
- Date of manufacture (month and year)
- Date and place of last service.
- Max.permitted height of stowage above waterline.
- Stowage position on board.
 - Ⓢ conformity mark and the Notified Body undertaking surveillance module (0062 for BV)
- .Last two digits of year mark affixed

9.2 The MES shall be marked with :

- Maker's name or trade mark.
- Serial number.
- Date of manufacture (month and year)
- Name of approving authority.
- Name and place of servicing station where it was last serviced, along with the date of servicing.
- Capacity of the system
 - Ⓢ conformity mark and the Notified Body undertaking surveillance module (0062 for BV).
- .Last two digits of year mark affixed

10. OTHERS :

10.1 This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the MES at any time, and that the Manufacturer will accept the responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the MES and the conditions of this approval.

10.2 This certificate supersedes EC Type Examination Certificate No 08210/B0 EC issued on 2004-05-11 by the
Society.